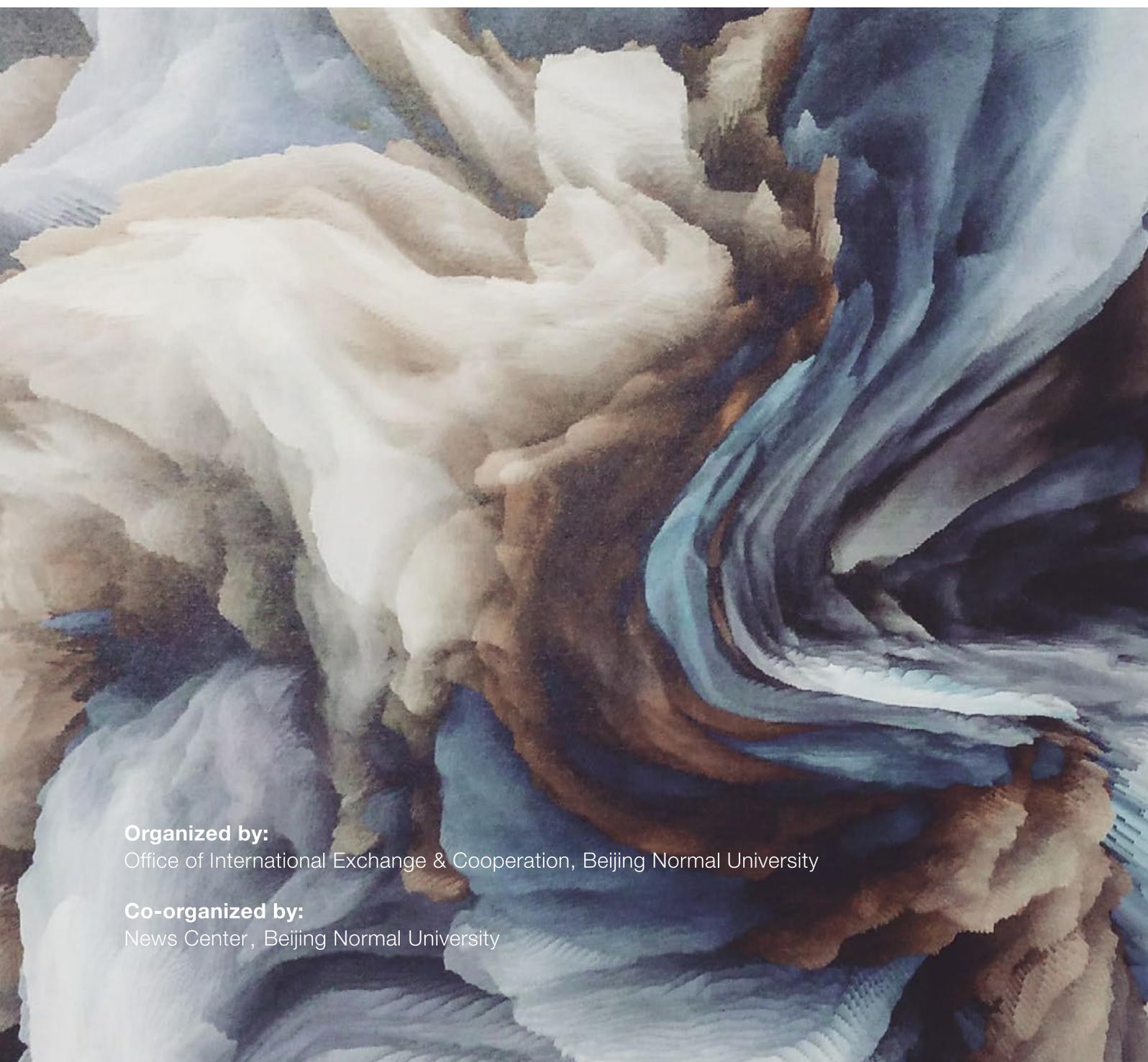


Beijing Normal University



Newsletter

Spring 2023 / Issue 14



Organized by:

Office of International Exchange & Cooperation, Beijing Normal University

Co-organized by:

News Center, Beijing Normal University

Newsletter

Spring 2023 / Issue 14

Organized by: Office of International Exchange & Cooperation, Beijing Normal University

Co-organized by: News Center, Beijing Normal University

Editorial Board

Advisor: ZHOU Zuoyu, Vice President of BNU

Chair: WU Yujun, Director of Office of International Exchange & Cooperation

Vice-Chair:

WANG Lei, Deputy Director of Office of International Exchange & Cooperation

LIU Lengxin, Deputy Director of Office of International Exchange & Cooperation

LIU Tao, Deputy Director of Office of International Exchange & Cooperation

LIU Min, Deputy Director of Office of International Exchange & Cooperation

Editorial Team

Chief Editor: WANG Lei, Deputy Director of Office of International Exchange & Cooperation

Co-Chief Editor: SUN Weiwei, Deputy Director of News Centre

Deputy Chief Editor: GUO Yimeng, Office of International Exchange & Cooperation

Copy Editor: CAO Chang, News Centre

Translator

TRANSN (BEIJING) INFORMATION TECHNOLOGY CO., LTD.

Proofreading

Douglas Marks

Designer & Composition

DENG Yuehua, School of Design, Beijing Normal University, Zhuhai

XU Wei, School of Design, Beijing Normal University, Zhuhai

ZHENG Xiaohong, School of Design, Beijing Normal University, Zhuhai

Beijing Normal University Newsletter is a publication for alumni and friends of BNU. It is produced by the Office of International Exchange & Cooperation (OIEC). Please feel free to contact us and send us suggestions or ideas so that we can improve this publication.

Contact Us

Address: Office of International Exchange & Cooperation

Beijing Normal University, 100875 Beijing, P.R. China

Phone: (+86) 10-5880-7170

Fax: (+86) 10-5880-0823

Email: bnunewsletter@bnu.edu.cn

Newsletter Online

The Newsletter can be read online at: <https://english.bnu.edu.cn/newsevents/newsletters/index.htm>

The views expressed in this publication are the views of the authors and do not necessarily reflect the views of the Office of International Exchange & Cooperation or Beijing Normal University.



Contents

BNU Newsroom	4
01 BNU, Supreme People's Court Co-build Duty-related Crimes Research Base	3
02 Ma Jun Meets OECD Delegation	7
03 BNU Promotes Implementation of Global Development Strategic Plan (2020-2025)	8
04 Ma Jun Meets Cheng Wenchen, Head of Cyrus Tang Foundation	28
05 2022 Overseas Internet Communication Ability Forum on International Chinese Language Education Closes	29
06 Beijing Normal University's Satellite BNU120 (Tiange Project GRID-07) is Successfully Launched	32
07 BNU China-U.S. Young Maker Center Wins Four Major Annual MOE Prizes	34
08 China's 39 th Antarctic Expedition Team, BNU Exchanges New Year Congratulatory Messages	35
Special Events	36
World Digital Education Conference	36
【Background】	36
【Objectives and Theme】	37
【Participants】	37
【Agenda】	37
【Publication】	38
【Speech】	46
People	54
A Student of BNU Selected as the 2022 Beijing Young Models of the Year	54
Academic	56
01 Qu Zhiyong's Team from the School Of Social Development And Public Policy Published The Latest Research In The Sub-Journal Of The Lancet: Group Intervention By Social Workers Has a Significant Effect On Alleviating Children's Psychological Trauma	56
02 Prof. Ding Ruiqiang's Team Publishes Paper: North Atlantic Oscillation Controls Multi-decadal Changes in the North Tropical Atlantic-Pacific Connection	58
03 Prof. He Lin's Team Publishes New Paper: Molecular Collapse States in Graphene/WSe2 Heterostructure Quantum Dots	60

BNU, Supreme People's Court Co-Build Duty-Related Crimes Research Base

Article source: Scientific Research Institute, Law School | Release date: 2023-02-03

On the afternoon of Feb 2, Beijing Normal University and the Supreme People's Court unveiled a research base for duty-related crimes. Zhou Qiang, Secretary of the Leading Party Group and President of the Supreme People's Court, visited BNU for a research symposium and unveiled the logo of the base. Shen Liang, member of the Party Leading Group and Vice President of the Supreme People's Court, Cheng Jianping, Secretary of the Party Committee of Beijing Normal University, Ma Jun, President of BNU, and Zhou Zuoyu, Vice President of BNU attended the symposium.

The research base for duty-related crimes aims to build a high-end think tank platform in duty-related crime research. It integrates interdisciplinary research forces and mainly carries out research on major theoretical and practical issues of duty-related crimes, so as



to actively provide decision-making consultation for the judicial practice concerning duty-related crimes.

Zhou Qiang stressed that Xi Jinping's Thought on Socialism with Chinese Characteristics for a New Era must remain as a fundamental guideline, and Xi Jinping's Thought on the Rule of Law must be thoroughly applied to further understand the decisive significance of Two Establishments. Also, the Four Awarenesses must be enhanced, the Four Matters of Confidence be confirmed, and

Two Upholdings be practiced. As a result, a high-end think tank for duty-related crimes research will be built to facilitate research on the theory and practice of duty-related crimes trials, and provide theoretical support for strengthening duty-related crimes trials.

Zhou Qiang said that building the base is an important measure to thoroughly apply Xi Jinping's Thought on the Rule of Law and promote the combination of legal theory and judicial practice. Also, it is a beneficial exploration to deepen the research on duty-related

crimes and better serve the overall situation of anti-corruption work. The research base should give full play to the role of a high-end think tank and build itself into an important platform for theoretical research, teaching and research, personnel training and international exchanges, and strive to introduce influential research results to provide strong theoretical support for strengthening the judicial work against duty-related crimes. Focusing on the major difficulties and new situations and problems in the practice of duty-related crime trial, the base is supposed to strengthen research and tackle key problems, promote theoretical innovation, and jointly facilitate the cultivation of legal talents in fighting duty-related crimes with other parties. At the same time, the base should strengthen research on the international anti-corruption mechanism for pursuing fugitives and asset recovery and on the trial theories of relevant cases, enhance exchanges and cooperation with the legal theoretical and practical circles of other countries, and tell a good story of the rule of law on duty-related crime trial in China.

Cheng Jianping said that Beijing Normal University has always adhered to the original intention of running education for national

rejuvenation and cultivating talents for national prosperity. BNU will thoroughly study and apply General Secretary Xi Jinping's important views on education, especially the spirit of his important speech spirit on qualified teachers with faith, virtue, knowledge and kindness, and the important spirit of his letter to us on the targeted teacher training plan for normal university students. BNU will vigorously strive to carry out projects to further facilitate teacher training and actively call for and support the country to carry out the targeted teacher training plan.

He pointed out that BNU has made many achievements while



thoroughly studying and applying Xi Jinping's Thought on the Rule of Law and the spirits of General Secretary Xi Jinping's vital speeches, strengthening discipline construction, scientific research and personnel training in the field of law research. BNU will take the establishment of the Duty-related Crimes Research Base as

an opportunity to further leverage its disciplinary advantages, strive to provide research results and practical suggestions for the work of duty-related crime trial for the People's Court, contribute wisdom to anti-corruption governance in China and the international community, and contribute to the construction of a socialist legal system with Chinese characteristics.

Ma Jun said that BNU attaches great importance to the construction of legal discipline, gives full play to its professional advantages, and actively serves the construction of the country's rule of law. Since its establishment



in the Law School of BNU, the Research Base of the Second Criminal Division of the Supreme People's Court on the Regulation of Duty-related Crimes and Anti-corruption Fugitives Pursuit and Asset Recovery has achieved rich research results and good social benefits. On this basis, the Supreme People's Court and BNU



jointly established the Duty-related Crimes Research Base, which is of great significance for promoting the theoretical research and practice of combating duty-related crimes and international cooperation against corruption.

Foreign Affairs, Du Yaling, Director of the Bureau of International Cooperation of the Ministry of Justice, and Huang Feng, professor with the Law School of BNU, delivered speeches and made exchanges.

the Ministry of Foreign Affairs, the Ministry of Public Security, the Ministry of Justice, China Law Society, and heads of relevant departments of BNU, head of Law School and BNU faculty representatives also attended the event.

At the symposium, Wang Xiumei, professor with the Law School of BNU, reported on the construction of the Research Base of the Second Criminal Division of the Supreme People's Court on the Regulation of Duty-related Crimes and Anti-Corruption Fugitives Pursuit and Asset Recovery. Liu Huiling, Senior Prosecutor of the First Rاند with the Third Procuratorial Office of the Supreme People's Procuratorate, Zhang Jian, Special Coordinator of Overseas Fugitive Pursuit and International Law Enforcement Cooperation of the Ministry of

Heads of relevant departments of the Supreme People's Court, and specially invited guests from the Supreme People's Procuratorate,

Before the symposium started, Zhou Qiang and other guests visited an exhibition on the 120th anniversary of the founding of Beijing Normal University.



Ma Jun Meets OECD Delegation

Article source: Office of International Exchange & Cooperation | Release date: 2023-02-16

On February 15, Andreas Schleicher, Director for Education and Skills, and Special Advisor on Education Policy to the Secretary-General at the Organisation for Economic Co-operation and Development (OECD), and Tamas Hajab, Senior Adviser to OECD China and Director of the Beijing Office, and some of their colleagues visited Beijing Normal University. President Ma Jun met with the OECD delegation and exchanged views on cooperation and issues of common interest. Heads of the Smart Learning Institute of BNU, China Basic Education Quality Monitoring Collaborative Innovation Center and Office of International Exchange & Cooperation also attended the meeting.

delegation and thanked him for the long-term support for and cooperation with BNU. Ma also introduced to the OECD delegation the overall situation of BNU, the 120th anniversary of the university, BNU's strategic layout of One Body and Two Wings and the progress made in digital education and quality monitoring of basic education in recent years. Ma Jun said that BNU attaches great importance to the exchanges with OECD and looks forward to further cooperation in digital education, education quality monitoring and evaluation, and jointly studying the use of technology to empower education, especially teacher cultivation and training.

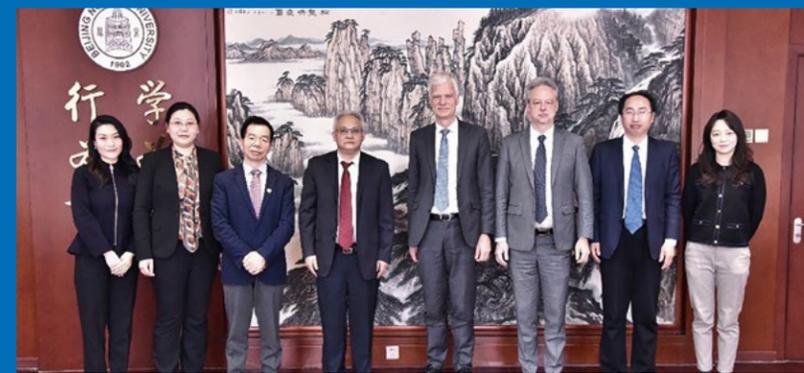
On behalf of BNU, Ma Jun welcomed Schleicher and his

Schleicher reviewed the achievements of the long-term cooperation between himself, OECD and BNU, introduced the OECD Program for



International Student Assessment (PISA) and the changes of PISA2025. Then he expressed expectations to strengthen the cooperation with BNU in quality monitoring of basic education and empowering education with science and technology.

The Organisation for Economic Co-operation and Development (OECD) is an influential intergovernmental organization for international economic cooperation. Headquartered in Paris, it currently has 38 member countries. Its predecessor was the Organisation for European Economic Co-operation (OEEC), which was founded in 1948. Schleicher is currently the Director for Education and Skills, and Special Advisor on Education Policy to the Secretary-General at the OECD, who started and has long led the OECD PISA project and other important education quality monitoring projects.



BNU Promotes Implementation of Global Development Strategic Plan (2020-2025)

Article source: Office of International Exchange & Cooperation | Release date: 2023-01-30

In 2022, BNU Promoted the Implementation of Global Development Strategic Plan (2020-2025)



Records

By taking root in China and embracing the world, Beijing Normal University (BNU) promoted the construction of a world-class university with Chinese characteristics that is comprehensive, research-oriented and leading in pedagogical education



In 2022, guided by the spirit of the 20th National Congress of the CPC, BNU adhered to its positioning as a world-class university with Chinese characteristics that is comprehensive, research-oriented and leading in pedagogical education.

The university bravely undertook the new task and mission of opening up of education to the outside world during the "14th Five-Year Plan" period, actively served the major strategic requirement of the Party and the state, steadily promoted the *Global Development Strategic Plan (2020-2025)*, continuously promoted the building of a global community of academic excellence, a global community of education innovation, and a global community of youth development and a global community of social responsibility of colleges and universities.

BNU made efforts for the participation and leadership of China's education in global education governance and the promotion in the building of a community with a shared future for mankind, shared its philosophy, provided its programs and contributed its share.



Annual Special Records

Joint Efforts for Grand Events at Home and Abroad and Joint Congratulations on the 120th Anniversary of the BNU

Standing at a new historical starting point of its 120th anniversary, BNU will make new and greater contributions to the all-around construction of a modern socialist country, the comprehensive promotion of the great rejuvenation of the Chinese nation and the promotion of the progress of human civilization.

Celebrate the 120th Anniversary of BNU Make the Country Prosper with Education

On September 8, 2022, the grand celebration of the 38th Teacher's Day and the 120th Anniversary of the Founding of BNU was held. Teachers, students and staff of BNU, alumni at home and abroad, and people from all walks of life who care about and support the development of BNU gathered on the campus and met at the cloud to make joint efforts for grand events and celebrate the grand anniversary of BNU.



北京師範大學

— 百 二 十 周 年 校 慶 —
120th Anniversary of Beijing Normal University

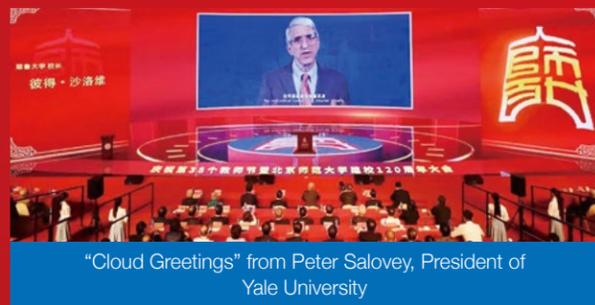
1902 - 2022





Promotional Video for the Celebration Presented by Sino-US Youth Maker Exchange Center

The celebration has further deepened the ties between BNU and its partners in countries and regions of the world and enhanced the international reputation of BNU. At the celebration of the 120th anniversary of the founding of BNU, international organizations such as UNESCO, world-renowned colleges, universities and research institutes, and other overseas partners expressed their congratulations



"Cloud Greetings" from Peter Salovey, President of Yale University

to BNU students in various ways. A total of 45 congratulatory videos and 100 congratulatory letters were received from overseas partners.

Cloud messaging again and again constantly updated information about the anniversary to partners around the world, thus building and strengthening the ties in a variety of ways. The release of the English short film themed "Me and My Alma Mater" and the promotional video on the platform further ignited the feelings of BNU students at home and abroad to alma mater.



"Cloud Greetings" from Stefania Giannini, Assistant Director-General for Education of UNESCO



Promotional Video for the Celebration Presented by Sino-Russian Education University Alliance



"Cloud Greetings" from Dozens of Foreign Cooperative Universities



BEIJING NORMAL UNIVERSITY



Record I

Continue to build a global system for training competent personnel

BNU is committed to optimizing the global system for training competent personnel, cultivating global governance personnel who have both international vision and Chinese feelings, and are well versed in international rules, complying with the trend of the social information age, actively promoting the digital transformation in education, and building an international personnel training platform.

01 Actively carry out localized and international construction, do a solid job in project development and publicity, student selection and reception, as well as management and service, and create an international atmosphere for personnel training.

From March 19 to November 10, the "2nd BNU Students International Exchange Festival" was held jointly by Beijing Campus and Zhuhai Campus, which intended to provide students with an opportunity to understand the international situation, participate in international exchanges and understand information about international organizations, friendly cooperative universities and Studying Abroad Safely through the Global Competence Summer Training Camp, project publicity and presentation of friendly cooperative universities, Studying Abroad Safely, and a series of academic lectures in Chinese and English.



Beijing Campus Education Exhibition Consultation Site



Presentation of Overseas Exchange Programs for Students



University of Oxford Presentation Site



No Border for Education in Zhuhai Campus, New Chapter for Communication - Lecture on Chinese and Foreign Education



Analysis of Overseas Education Approaches and Academic Development Potential in Zhuhai Campus: Lecture from the Research Perspective of Typical Cases

02 Promote the special work of personnel in international organizations, build the curriculum system of international organizations, and cultivate personnel in international organizations with international vision and professional quality.

On July 4, the “Global Competence” summer training camp officially kicked off. More than 160 young students from 18 departments of BNU who are interested in working in international organizations

gathered online. Tang Qian, former Assistant Director-General of Education of UNESCO, and many other senior experts and young personnel from international organizations brought wonderful lectures, project management strategy courses and practical guidance.



Global Competence Summer Training Camp Activity Site

03 Improve the quality of international students' training, management and service, carry out colorful cultural and educational exchange activities, expand various communication platforms and channels, and build a bridge connecting people's hearts.

BNU takes the characteristic projects such as “the Belt and Road” in international education as the breakthrough point, cultivated international personnel who know and love China and are committed to building Community with a Shared Future for Mankind. Take advantage of important time nodes to carry out a series of activities. Gave full play to the unique advantages of international students, organized the participation in the torch relay of Beijing Winter Olympics and Winter Paralympic Games, recorded students' experiences in participating in the activity, and told the story of the Winter Olympics. Held a tea party on the theme of “Let's Watch the 20th National Congress”, participated in the 2022 Global Young Leaders Dialogue, the World Youth Forum and other activities, and promoted youth exchange, mutual learning and common development in all countries.



CCTV news client's “Observation - Most Lovely Oriental Friends” column reported the international education project of the Belt and Road School of BNU with the topic “We are schoolmates of the Belt and Road”



During the Beijing Winter Olympics and Winter Paralympic Games, international students of BNU participated in the torch relay



China Youth Daily published a promotional video of the Winter Olympics recorded by international students of BNU “Towards the Future Together” and “We Are the World”



Tea Party on the Theme of "Let's Watch the 20th National Congress"



Representatives of international students of BNU were interviewed by reporters from China Media Group at the World Youth Forum and People's Daily published relevant articles

04 With the theme of "Gather in China through the Cloud, Enjoy Learning at BNU", Beijing Campus and Zhuhai Campus jointly organize and hold the 2022 BNU Summer School.

BNU Summer School has set up 18 courses around the themes of global economic and social governance and sustainable development, covering many fields such as economy, politics, nature, humanities and education, has many topics such as Chinese philosophy and modern civilization, global education governance, international humanity and sustainable development, BRICS macroeconomics and commerce, circular economy and carbon neutrality, and has designed a variety of learning and exchange activities such as online workshops, visits and seminars. The school has attracted a total of 3,625 students and 101 teachers and scholars from 56 countries such as US, UK, Japan and France to participate in it, setting up an international stage for students from all countries to share ideas.



"Gather in China Through the Cloud, Enjoy Learning at BNU" BNU Summer School 2022

05 With the theme of "Artificial Intelligence and Education, Metaverse and Education, Rural Education and Inclusive Education", the Fifth Global Competition on Design for Future Education was held.

From March to July, the Global Competition on Design for Future Education was jointly hosted by the UNESCO Institute for Information Technologies in Education, which attracted more than 1,000 college students and more than 500 primary and middle school teachers from nearly 20 countries and regions to sign up for the competition. Through the "cloud design" and "cross-school cooperation", a number of unique design works and worth promoting teaching cases of primary and middle school teachers were produced. Teachers and students from all over the world jointly explored how to apply emerging technologies such as artificial intelligence and the metaverse to solve key problems in education and contribute to the sustainable development of education.



The Fifth Global Competition on Design for Future Education



BEIJING NORMAL UNIVERSITY



Record II

Vigorously enhance the global competitiveness of scientific research

BNU's goal is to build an influential international scientific research and innovation platform, deepen substantive cooperation with world-top universities, promote the construction of discipline alliances, hold high-level international academic conferences, continuously promote English polishing, and support international publication of outstanding achievements.

01 Continue to implement the special "Global Development Strategic Partnership Plan", and strengthen and deepen substantive cooperation with world-top universities and disciplines.

Through the in-depth cooperation with famous foreign universities such as University of Cambridge, King's College London, University of Alberta, and Tokyo Institute of Technology, we have actively innovated the



In 2022, the research paper of long-persistent luminescence was rated as the best paper in 2021 by Research

exchange mode, and achieved fruitful results in building an international scientific research cooperation platform, jointly cultivating innovative personnel, jointly holding international conferences, jointly building an international faculty, and jointly establishing foreign periodicals.

The "Sino-UK Strategic Cooperation Alliance of World-leading Psychology Discipline" was approved as a Sino-UK international scientific research cooperation project, held 11 Sino-UK "Mind" Salon series lectures, and jointly published a number of influential academic



Lecture Salon on "Sino-UK Strategic Cooperation Alliance of World-leading Psychology Discipline"

achievements. The College of Chemistry and the University of Cambridge have carried out multi-dimensional cooperation and joint innovation in new optical functional materials and other fields, published 9 high-level papers in the top periodicals of chemistry and materials, and authorized 5 patents for invention.

02 Host and undertake academic conferences and forums with brand effect and international influence to enhance the discipline's global development ability and international influence.

On April 22 and 23, we hosted the 7th Asian Dendrochronology Conference. Themed on "tree-rings, land-sea coupling, climate constructions", we set up eight topics, including "climate-growth relationships and past climate reconstructions". More than 350 delegates from 14 countries attended the conference, and more than 8,800 people attended and watched the conference live.



The 7th Asian Dendrochronology Conference

From August 18 to 20, the "Global Smart Education Conference 2022" was held. Themed on "intelligent technology and digital transformation in education", the conference invited experts and scholars from the education, technology and business sectors at home and abroad to explore the development path of intelligent technology and the digital transformation in education. 12 thematic forums were held during the conference,

the research results of the "Joint Research Program on National Smart Education Strategy" were released, and the "Global Smart Education Cooperation Alliance Initiative" was launched. The conference was held both on line and off line, attracting a total of about 8 million attendees worldwide.



Opening Ceremony of Global Smart Education Conference 2022

On November 9, the 2022 Forum on the Rule of Law in Internet of World Internet Conference Wuzhen Summit was held, with the theme of "Rule of Law in Internet: Building a Guarantee System for the Rule of Law in the Digital Age". Representatives from more than 10 countries around the world participated in the forum and discussed in-depth on hot topics such as network security, data governance, personal information protection and corporate compliance.



Forum on the Rule of Law in Internet of World Internet Conference Wuzhen Summit

On November 14, the 4th International Conference on Mathematics Textbook Research and Development (ICTM-4) was hosted. As a professional conference of the highest level, the greatest influence and the widest

participation in the field of international mathematics textbook research, this conference was held in Asia for the first time since the launch of the International Conference on Mathematics Textbook Research and Development. More than 200 mathematics educators from more than 20 countries, including China, the United States, Britain, Japan, South Korea, Germany, Brazil, Israel, the Netherlands, Norway and New Zealand, submitted 113 papers to the conference, with nearly 400 officially registered representatives. The opening and closing ceremonies were live broadcast to the world, with more than 4,000 online participants.



The 4th International Conference on Mathematics Textbook Research and Development (ICTM-4)

On December 5 to 6, the "2022 International Conference on Artificial Intelligence and Education" co-sponsored by the Ministry of Education of the People's Republic of China, by the National Commission of the People's Republic of China for UNESCO and UNESCO, and undertaken by BNU, UNESCO Institute for Information Technologies in Education and the Chair of "Artificial Intelligence and Education" was held on line. Huai Jinpeng, the Minister of Education, attended the meeting and delivered a speech. Sun Yao, the Vice Minister, delivered a keynote speech at the plenary session. Tian Xuejun, the Vice Minister of the Ministry of Education and Director of the National Commission of the People's Republic of China for UNESCO, presided over the opening ceremony and delivered a speech at the closing ceremony. President Ma Jun attended the meeting online and delivered a speech. Mourao, the President of the 41st Session of the General Conference, UNESCO, and Gianini, the Assistant Director-General of Education at UNESCO made online speeches. More than 500

representatives from more than 50 countries, including ministers and vice ministers from 17 countries, such as South Africa, Indonesia and Spain, representatives from relevant international institutions, experts and scholars, representatives from the private sector, domestic local education administrative institutions and universities attended the meeting on line. At the same time, a total of more than 300,000 participants watched the meeting discussion online through webcasting.



2022 International Conference on Artificial Intelligence and Education

Many disciplines have held and undertaken high-level academic conferences, lectures and forums to promote international academic exchanges, and further enhance the influence of various disciplines and our university in the international academic circle.



International Symposium on "Values in a Changing World 2022"



Boao Forum for Asia "Asian Civilization: Multiplex Symbiosis, Facing Future" Sub-forum



2022 Global Aesthetic Education Convention



International Symposium on "Values in a Changing World 2022"

03 Strengthen the English polishing service to help teachers publish high-level scientific research papers internationally.

BNU has strived to organize several English polishing lectures to optimize management services. In 2022, a total of 1,449 articles were polished, with a year-on-year growth of 53%. The number and quality of high-level scientific research papers published internationally continued to increase and improve.

01 Give full play to the platform functions of the International Research and Training Center for Rural Education of UNESCO and the UNESCO Chair of "Artificial Intelligence and Education", deepen exchanges and cooperation with international organizations in rural education, women and children development, artificial intelligence and other fields, and strengthen the international communication of China's experience.

On March 30, the "2022 United Nations International Education Day - China's Event" was held, with the theme of "She Changes: Girls' and Women's Education and Sustainable Development". Beijing Normal University undertook and presided over the third topic, "Her Power: Growth Story". Tian Xuejun, Vice Minister of the Ministry of Education of the People's Republic of China, Liu Limin, President of China Education Association for International Exchange, and Gianini, Assistant Director-General for education of UNESCO, and other honoured guests attended the event and delivered speeches. More than 800,000 people from envoys to China, representatives of international organizations, experts and scholars from more than 20 countries watched the live broadcast of the event online.



2022 United Nations International Education Day- China's Event

On June 15, the International Research and Training Center for Rural Education of UNESCO held the 2022 Dean's Forum of the Chinese-African College of Education. Experts and scholars from the Ministry of Education of the People's Republic of China, six major normal universities of China and universities and

international organizations from 12 countries in Africa exchanged views and held discussions on the theme of "jointly conceiving teachers' education and moving towards a community of shared destiny between China and Africa". More than 1400 educators, officials of international institutions from China, Nigeria, Ethiopia, Namibia, Uganda, Kenya and Côte d'Ivoire and teachers and students from many colleges and universities in China and Africa participated in the forum online.



Dean's Forum of the Chinese-African College of Education

02 Hosted the 2022 BRICKS Network University Annual Conference, hosted the BRICKS Network University International Management Committee Conference, and actively served the major diplomatic activities of the BRICS "Chinese New Year".

From April 20 to 21, the 2022 BRICKS Network University Annual Conference was held. This annual conference has the theme of "building a partnership among first-class universities to promote the sustainable development of BRICS ", and includes the main forum and six parallel sub-forums. More than 300 people attended the annual conference, including representatives of the BRICS Network Universities and experts and scholars from 13 countries around the world. During the annual conference, the academic institutions of six Chinese universities, including the School of Government Management of Beijing Normal University, held more than ten international academic seminars around the field of discipline of BRICS research.



BEIJING NORMAL UNIVERSITY



Record III

Actively participate in global education governance

With accelerating the opening up of education to the outside world and promoting the construction of a community with a shared future for mankind as the guiding direction, we must actively expand the fields and ways of cooperation with intergovernmental international organizations, take brand exchange activities as an effective means, actively play the role of folk diplomacy and public diplomacy, and serve major national strategies.



Opening ceremony of BRICS Network University Annual Conference

On May 5, Beijing Normal University hosted the 2022 BRICS Network University International Management Committee Conference. Beijing Consensus was discussed, deliberated and approved in the Conference. The representatives of China, Brazil, Russia, India and South Africa all hope that the higher education circle of the BRICS will further innovate the cooperation model, inclusive and shared development, and contribute more to the sustainable development of the BRICS on the basis of consolidating existing practical cooperation.



BRICS Network University International Management Committee Conference

03 The cooperation with the United Nations Office for Disaster Risk Reduction has yielded fruitful results and contributed to global disaster reduction governance.

The goal is to renew the cooperation statement with the United Nations Office for Disaster Risk Reduction. The 2022 Asia-Pacific Scientific and Technological Disaster Reduction Status Report, prepared with the participation of the secretariat of the Asia-Pacific Scientific and Technological Advisory Committee established in our university, was released on the United Nations Prevention Web site; and the 2021 Global Natural Disaster Assessment Report, prepared with the participation, was launched on the global disaster data platform (www.gddat.cn) and was reported by mainstream media such as the People's Daily. The English version of the report was also included on the United Nations Prevention Web site to help promote global disaster reduction and governance.



2022 Asia-Pacific Scientific and Technological Disaster Reduction Status Report



2021 Global Natural Disaster Assessment Report



Record IV

Continuously enhance the global influence of cultural communication

Actively respond to the "going global" strategy of Chinese culture, give full play to the abundant strength of humanities and social sciences research and the advantages of comprehensive universities, and promote the construction of the international communication capacity of our university.

01 Serve the major strategies of CPC and China, and actively publicize the spirit of the 20th CPC National Congress to the international community.

On November 11, the International Department of the Central Committee of the Communist Party of China held a thematic publicity and presentation conference on the spirit of the 20th National Congress of the Communist Party of China for foreign diplomatic envoys in China, which is attended by senior diplomats from over 100 countries including nearly 60 ambassadors to China. Han Zhen, member of the central committee preaching group and the director of the academic committee of our school, made a presentation to the foreign side. Han Zhen introduced the governing experience of the Communist Party of China in the decade of the new era, and represents that since the 18th National Congress of the CPC, the Communist Party of China has insisted on taking its innovation theory as a powerful force to guide practice and promote work, founded the Thought of Socialism with Chinese characteristics in the new era of Xi Jinping, and realized a new leap in sinicization and modernization of Marxism. The "two establishments" have become a high degree of consensus and common

will of the whole Party, the army and the people of all ethnic groups in China. It is the greatest certainty, confidence and guarantee for the Communist Party of China to deal with all uncertainties.



Site of the thematic publicity and presentation conference on the spirit of the 20th National Congress of the Communist Party of China for foreign diplomatic envoys in China held by the International Department of the Central Committee of the Communist Party of China



Presentation to the foreign side made by Han Zhen, member of the directors of the academic committee of BNU

02 Continue to promote and build characteristic brand projects such as "Eyes on China - Foreign Youth Imaging Program" and "Beauty of Chinese Characters" to promote the overseas dissemination of Chinese culture.

The "Eyes on China - Foreign Youth Imaging Program" has been continuously promoted for 11 years so far. With the theme of "Elegance, Fashion and Scenery" in 2022, through the personal experience and image creation of foreign young people in China, "Eyes on China" aimed to explore the Chinese elegance, the fashion of Chinese society and China's vast natural scenery, and promote the building of a living community between human and nature. After a year of shooting in a dozen of cities at home and abroad, a total of 75 short films had been shot for the "Eyes on China" in 2022. At a screening in December, 6 outstanding works, including Rice Journey, Blessing Shadow and Flowing Wuhan, were shown to the audience. Taking the opportunity of the Beijing Winter Olympics and the Winter Paralympic Games, the "Eyes on China - Eyes on the Winter Olympics" section was added in "Eyes on China" 2022, and three short films including the Winter Olympics Trumpeter were completed.



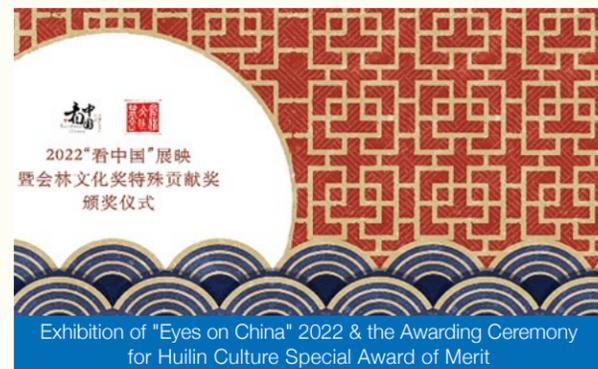
Outdoor shooting of foreign young directors



In November, the *Beauty of Chinese Characters - HanZi Land* was officially released online. Themed on Chinese character culture and based on the meta-universe platform, this interactive and experiential virtual space digitizes the results of the "Beauty of Chinese Characters" project of BNU, and promotes it overseas, leading the global youth to share the cultural feast.



The Beauty of Chinese Characters-HanZi Land, an interactive and experiential virtual space inspired by the metaverse has been officially launched recently. It is themed on Chinese calligraphy and culture.



Exhibition of "Eyes on China" 2022 & the Awarding Ceremony for Huilin Culture Special Award of Merit



Shooting for mountain patrol and forest protection of the creation team and the forest rangers

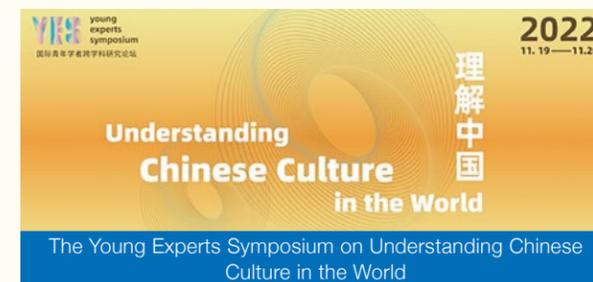


The Beauty of Chinese Characters - HanZi Land reported by overseas official media of China Daily

03 Hold high-level forums to promote exchanges between Chinese and foreign scholars and students, and enhance the understanding and recognition of Chinese culture and social development in the international academic community.

From November 19 to 20, the Young Experts Symposium on Understanding Chinese Culture in the World will be held. Focusing on Chinese culture, the forum brings together young scholars studying Chinese culture from all over the world. They are invited to start from an established theme related to Chinese culture, make use of their professional advantages, elaborate their research results, and talk about their experiences in understanding Chinese culture. The forum takes interdisciplinary research and discussion methods as the starting point, encouraging international youth to explore the unique charm of Chinese culture from the perspectives of humanities, science, art, economy and other disciplines.

From December 3 to 4, the 5th International Student's Ecology and Environment Forum was held with the theme of "Ecological Civilization and Low-Carbon Transition".



The Young Experts Symposium on Understanding Chinese Culture in the World



The Young Experts Symposium on Understanding Chinese Culture in the World

The forum aims to deepen research on thoughts toward ecological civilization, promote green and low-carbon transitions, and help achieve the goal of carbon peak and carbon neutrality. The forum provides an important platform to publicize and introduce China's successful experience in the construction of ecological civilization, and promote exchanges between Chinese and foreign students on frontier issues in the field of environment.



The 5th International Student's Ecology and Environment Forum

04 Actively carry out international Chinese education, promote language exchanges between China and foreign countries, and promote international Chinese language spread abroad.

Strengthen the construction of cross-platform, and actively promote the effective interaction between international Chinese education and pedagogy, psychology, literature, history, philosophy, art media, journalism and other disciplines. Vigorously carry out multi-dimensional work in international Chinese language education, such as personnel training, scientific research, teaching standards formulation, textbook research and development, localization and digitalization of teachers, actively promote the overseas communication capacity building of international Chinese language education, improve the overseas communication system of international Chinese language education, and promote the international influence of Chinese language.



William Hart, a student of the Confucius Institute of the University of Manchester, won the final of the 21st "Chinese Bridge" Chinese Proficiency Competition for University Students in the UK.



"Excellent Chinese Training" summer camp online class in the UK



The Confucius Institute of Quebec and the Chess Association of Quebec jointly held the 5th Chess Promotion Forum of Confucius Institute & the "Confucius Institute Cup" Chess Open series of activities in Quebec



International Academic Forum on Chinese Language Education & 2022 Annual Conference of the International Society for Chinese Language Teaching



2022 International Overseas Network Communication Power Forum on Chinese Education



BEIJING NORMAL UNIVERSITY



Record V

Accelerate the building of a global network of excellent cooperation.

Accelerate the building of a global network of excellent cooperation. BNU will play an important role in university networks and bilateral and multilateral alliances, actively promote cooperation in various fields, conduct in-depth exchanges with nearly 100 universities on the development direction, goals and major projects of cooperation networks and multilateral alliances among multiple university, and build a diversified and interactive cooperation network.

01 Push forward the construction of bilateral alliance platforms such as the Sino-Russian Education University Alliance, the Sino-US Youth Maker Exchange Center and the Sino-Finnish Joint Learning and Innovation Research Institute.

Over the past eight years since the establishment of "the Sino-Russian Education University Alliance", a series of brand activities, including the China-Russia



16-17 NOVEMBER 2022 Pedagogical Education in the Context of Global Digitalization INFORMATION LETTER Education in the future



2022 Presidents' Roundtable Forum & Teacher Education Symposium

Teacher Education Forum, the "Head for Moscow" Russian Language Olympic Competition and the "Head for Beijing" Chinese Language Olympic Competition, making important contributions to the promotion of cultural and educational exchanges between China and Russia. As the secretariat of the Chinese side, our school plays an active role in organizing and coordinating. From November 16 to 17, the "2022 Presidents' Roundtable Forum & Teacher Education Symposium" was held, attended by university leaders and representatives from 21 member units of the Sino-Russian Education University Alliance.

Sino-US Youth Maker Exchange Center of the Ministry of Education, relying on psychology, the dominant discipline in the university, gathers multi-disciplinary resources and forces from all sectors of society. With the two basic points of "More Effective Transformation of Innovative and Entrepreneurial Achievements" and "Exhibition of Closer Sino-US Maker Exchanges", the center promotes dialogue between Sino-US universities, enterprises and other multiple subjects. It is also one of the important platforms for BNU to exchange and cooperate with the United States. In 2022, the Sino-US Youth Maker Exchange Center won the Innovation Exchange Demonstration Award, the Excellent Work Case and the Excellent Team and Excellent Mentor Award.



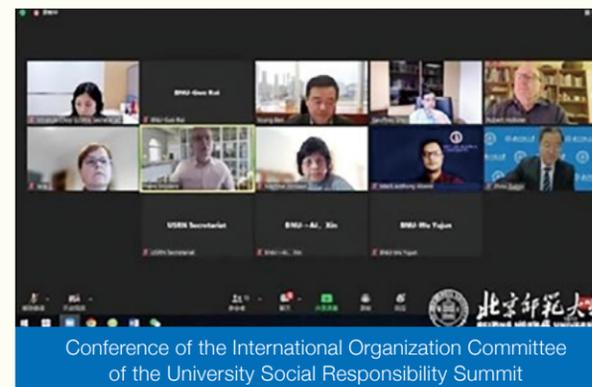
The Sino-Finnish Joint Learning and Innovation Research Institute (JOLII) was established in 2015 at the Sino-Finnish Education Ministers' Meeting, led by BNU and the University of Helsinki. In 2022, allied with Sino-Finnish member institutions, we applied for Global Innovation Network for Teaching and Learning (GINTL) and was successfully approved by the Finnish Ministry of Education. Supported by the project, the Seminar on Burnout of Teachers and students in 2022 of the Sino-Finnish Education Forum was held. A total of 9 sessions of Sino-Finnish education and social dialogue

were organized throughout the year, and the 7th Annual Conference & "Teacher Development in the New Era - Create the Future Together" Forum was held.



02 Deeply participate in the building of university alliances with global or regional influence, actively participate in the decision-making and management of alliances, and enhance the international voice of disciplines and schools.

Deeply participate in the construction of university alliances with global or regional influence, such as University Social Responsibility Network, BRICS Network University, BRICS University Alliance, East Asian Teacher Education International Alliance, China-CEEC Higher Education Association, International Cultural Exchange Academic Alliance, etc., propose the scheme for BNU, actively play a leading role in promoting the development of global education governance.



1 New book: Smart Education in China and Central & Eastern European Countries

<https://link.springer.com/book/9789811973185>

to be published on Feb. 2023

Research Report on Smart Education in China and Central & Eastern European Countries was released at the meeting.

The year 2022 marks the 120th anniversary of the founding of BNU. In the past 120 years, BNU has endured great hardships in pioneer work, gone through cultural inheritance and innovation, and shared a common destiny with the nation. Facing the profound changes unseen in a century in the world and the overall strategic situation of the great rejuvenation of the Chinese nation, BNU pursues excellence, bravely moves ahead and assumes its mission. In the extremely unusual and historic year of 2022, with the spirit of innovation, the awareness of openness and the courage to adapt, BNU has done a solid job in the educational opening up in the new era. We have steadily advanced the Global Development Strategic Plan (2020-2025) and achieved fruitful results. In 2023, we will conscientiously implement the spirit of the 20th National Congress of the CPC, firmly serve the Party's external work and national diplomatic strategy, actively participate in the global education management, summon up our courage and forge ahead, and assist in the construction of "Double First-Class initiative" in the school with greater achievements in international exchanges and cooperation.

Ma Jun Meets Cheng Wenchen, Head of Cyrus Tang Foundation

Article source: BNU Education Foundation, Office of National Collaborative Programs, BNUZ | Release date: 2023-02-09

On January 31, Cheng Wenchen, Director of the Cyrus Tang Foundation, and Zhu Li, Program Director of the Cyrus Tang Foundation visited BNU Zhuhai. Ma Jun, President of BNU, met with the guests. Wei, Deputy Secretary of the Party Committee of BNU and Secretary of the Party Committee of BNU Zhuhai, Zhang Kai, Director General of BNU Education Foundation, and relevant officials from the BNU Education Foundation, College of Education for the Future, Leyu College and Office of National Collaborative Programs also attended the meeting.

Ma Jun first extended a warm welcome to the Cyrus Tang Foundation delegation for their visit to BNU Zhuhai. For more than 20 years, Mr. Cyrus Tang and the Foundation have cared for and supported the development of BNU. They have successively donated funds to support personnel training and discipline construction projects, including Cyrus Tang Scholarship, Cyrus Tang Young Scholar, and Cyrus Tang Fund for the Development of Future

Educators. They have cultivated a large number of high-quality talents for China's education cause. In the future, BNU looks forward to continuing to jointly carry out projects to further facilitate teacher training with the Cyrus Tang Foundation, so as to contribute to the revitalization of rural education and cultivating excellent teachers for the less developed areas of Central and Western China.

Cheng Wenchen reviewed the friendly exchanges and profound friendship between Cyrus Tang, the Cyrus Tang Foundation and BNU over the years, and spoke highly of the beautiful environment and good learning style of BNU Zhuhai. He

extended his hope to uphold the mission of supporting enthusiastic practitioners to jointly create a society of mutual help and love, and jointly promote the reform, innovation and practice of top talent training with BNU.

The Cyrus Tang Foundation delegation visited Leyu College and talked with the students who stayed on campus during the winter vacation. They also had an in-depth exchange with College of Education for the Future, Leyu College and other relevant departments on the enrollment, training, employment and career development of students under the targeted teacher training plan and Zhiyuan Program.



Ma Jun, President of BNU (C), takes a picture with delegation members of Cyrus Tang Foundation

2022 Overseas Internet Communication Ability Forum on International Chinese Language Education Closes

Article source: School of Journalism and Communication of BNU, School of International Chinese Language Education at BNU | Release date: 2023-01-04



On Dec 30, the 2022 Overseas Internet Communication Ability Forum on International Chinese Language Education concluded in Beijing. Zhou Zuoyu, Vice President of Beijing Normal University and Liu Feng, Second-level Inspector of the Beijing Returned Overseas Chinese Federation attended the forum and delivered speeches. The forum is co-hosted by Beijing Returned Overseas Chinese Federation, School of Journalism and Communication of BNU, and the School of International Chinese Language Education at BNU.

Many experts attended the meeting, including Wu Yanpeng, Deputy Chief Editor of China Daily,

Zhou Qing'an, Dean of the School of Journalism and Communication at Tsinghua University, Zhou Ting, Dean of the School of Government and Public Affairs at Communication University of China, Zhang Hui, Chinese Director of the Confucius Institute at the University of Manchester, Li Xiaomei, Honorary Director of the Institute of Chinese Language and Culture Education at Beijing Language and Culture University, Chu Jun, President of the Chinese Institute Geneva Foundation, Su Hongyan, Secretary General of the Association of Chinese Language Schools in Germany, President of Huada-Chinesisch-Schule Darmstadt e.V., and Zhong Cheng, Executive Vice President of Nouvelles D'Europe in France.

Other attendees include experts and scholars, such as Wang Xuesong, Secretary of the Party Committee of School of International Chinese Language Education at BNU, Feng Liping, Dean of School of International Chinese Language Education at BNU, Fang Zengquan, Party Secretary of the School of Journalism and Communication of BNU, and Ding Hanqing and Zhou Min, vice presidents of the School of Journalism and Communication of BNU, as well as head of the Confucius Institute Management Center and some media representatives.

The participating experts and scholars had in-depth discussions on strengthening international communication capacity, exploring and practicing the development of overseas international communication on international Chinese language education. The forum aims to implement the systematic exposition on China's cultural construction made in the Report to the 20th National Congress of the Communist Party of China, further strengthen the overseas communication capacity-building



of international Chinese language education, comprehensively improve international communication efficiency, promote to build a new type of international relations, and display China's image as a responsible great power. The forum was moderated by Ding Hanqing.

Zhou Zuoyu said in his speech that the Report to the 20th National Congress of the Communist Party of China clearly calls for enhancing the communication and the influence of Chinese civilization, sticking to the position of Chinese culture, telling China stories well and letting the world hear Chinese people's voices, so as to present a credible, lovely and respectable image of China. The development goal of international Chinese language education has always been promoting Chinese as an international language and enhancing its international influence. It is an important force to enhance China's international influence and promote Chinese culture to the world. BNU gives full play to its disciplinary

advantages and professional specialties, actively promotes the effective interaction between international Chinese language education and other disciplines, such as pedagogy, psychology, literature, history, philosophy, art and media, and journalism,



Zhou Zuoyu, Vice President of Beijing Normal University delivers a speech

while facilitating interdisciplinary integration and theoretical and practical innovation. Zhou Zuoyu extended warm welcome to the participating experts and scholars, saying that BNU hopes to join hands with all sectors of society to continuously improve the overseas communication system of international Chinese language education and to enhance the international influence of Chinese language.

Liu Feng said in his speech that international Chinese language education has played an important role in promoting the international community's understanding of the ancient and modern Chinese culture, reducing estrangement and barriers, enhancing cultural identity and cohesion, and jointly building a community with a shared future for mankind. International Chinese language education work will help strengthen China's cultural soft power, form an international discourse power matching China's comprehensive national strength and international status, and further lead Chinese culture to go international. Liu



Liu Feng, Second-level Inspector of Beijing Returned Overseas Chinese Federation, delivers a speech

Feng hoped that Beijing Returned Overseas Chinese Federation and BNU could strengthen cooperation to jointly promote the high-quality development of international Chinese language education, carry forward excellent Chinese culture and make new and greater contributions to the high-quality development and high-level opening-up of Beijing, the capital of China.



At the forum, Fang Zengquan, on behalf of the research group, released the Report on the Overseas Communication Ability of International Chinese Language Education (2022) (hereinafter referred to as the Report). Then experts and scholars from academia and industry had in-depth exchanges on the content of the Report. By analyzing the content of foreign mainstream social media platforms, the Report elaborated the emotional tendency and communication characteristics of international Chinese language education on different platforms, and

put forward suggestions on improving the overseas communication ability of international Chinese language education. The experts who participated in the report review agreed that the Report is of great significance for in-depth study and implementation of the strategy of building a stronger China with the power of spiritual culture, which was elaborated at the 20th CPC National Congress. International Chinese language education is an important carrier for Chinese culture to go global, and interdisciplinary integration and innovation are

conducive to further improving the overseas communication power of international Chinese language education. As a result, Chinese scholars need to think creatively, increase the multi-functional value of international Chinese language education in overseas communication, and find a more innovative development path, so as to achieve better international communication effect in international Chinese language education.

The participants of the round table forum had an in-depth discussion on the exploration and practice of overseas communication of international Chinese language education, and discussed the current situation and future development of international Chinese language education through vivid case analysis, providing a feasible path for overseas communication of international Chinese language education.

The head of the School of Journalism and Communication at BNU said in the summary speech that based on the experience of this interdisciplinary practice and exploration, the school will continue to give full play to the advantages of BNU's disciplinary advantage of journalism and communication and continue to explore the overseas communication of international Chinese language education in the new era and under the new situation, and continue to promote the sustainable and high-quality development of overseas communication of international Chinese language education.

Beijing Normal University's Satellite BNU120 (Tiange Project GRID-07) is Successfully Launched

Editor: LIN Run | Release date: 2023-01-17



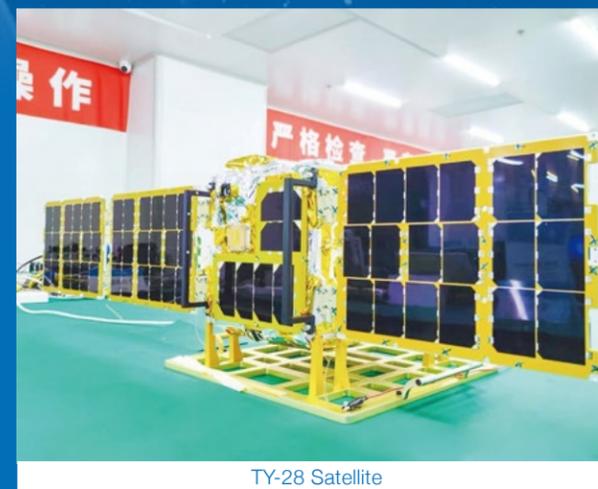
At 11:14 am, Jan 15, Beijing Normal University's satellite payload, BNU120 (Tiange Project GRID-07) which was carried on Spacety's TY-28 satellite was launched by a CZ-2D carrier rocket from Taiyuan Satellite Launch Center and entered the preset orbit. The satellite is in good condition now, which is also the first satellite payload developed by Beijing Normal

University in the Tiange Project.

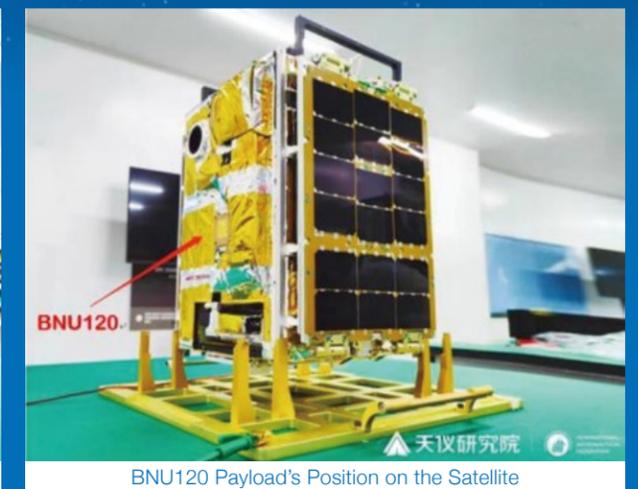
The BNU120 (GRID-07) team is composed of more than 20 teachers and students from the College of Nuclear Science and Technology and the Astronomy Department of Beijing Normal University. Among them, Zhao Yiwei, Qi Xinrui and Jiang Wenyang, undergraduates of 2018 from the College of Nuclear Science and Technology, participated

in the development and calibration of the payload. Lin Shijie and Shen Songyu from the Astronomy Department in 2020 were responsible for the preparation of the load operation and data analysis. The Tiange team of Tsinghua University gave great support to the development and operation of the satellite payload. The BNU120 is expected to be capable of both independent observation and research and joint observation with multiple orbitally-launched satellite networks. It will carry out continuous in-orbit observation and analysis of high-energy bursts in the universe and some special celestial bodies.

The "Tiange Project", initiated by Tsinghua University and co-operated by several universities and research institutes, is a space science project with undergraduate student teams as the main body. It is also a basic science talent training project with interdisciplinary science and technology disciplines. The main



TY-28 Satellite



BNU120 Payload's Position on the Satellite

scientific goal is to find gamma-ray bursts conformed with gravitational waves, fast radio bursts and other high-energy astrophysical transients. Beijing Normal University is one of the first batch of universities to participate in the Tiange Plan. The "Tiange Project" is about to enter the stage of building a constellation observation network with multi-satellite loads, and carry out in-depth cooperation and collaborative data analysis with GECAM and other large gravitational wave gamma-

ray burst scientific satellites. It is expected to obtain more breakthrough observation and research results after the ground-based gravitational wave detectors are upgraded and switched on again.

The Tiange Project in BNU is supported by the Astronomy Department, the Institute of Frontier Science in Astronomy and Astrophysics, and the College of Nuclear Science and Technology. Professor Lin Lin from the Institute of Frontier Science in

Astronomy and Astrophysics, Professor Liu Yuanyuan and Associate Professor Jiang Jianyong from the College of Nuclear Science and Technology are co-supervisors of the Tiange student team. The Tiange team is also supported and guided by Professor Chen Li, Zhong Jiayong, Zhu Zonghong, Gao He, Associate Professor Xing Nan and Lu Ligen from the Department of Astronomy. Professor Zhang Fengshou from College of Nuclear Science and Technology also offered help.



2022年中美青年创客交流中心 建设研讨活动

2022 CHINA-U.S. YOUNG MAKER CENTERS
ANNUAL CONFERENCE

2023年1月6日

BNU China-U.S. Young Maker Center Wins Four Major Annual MOE Prizes

Article source: Office of International Exchange & Cooperation | Release date: 2023-01-07

On January 6, 2023, the 2022 China-U.S. Young Maker Centers Annual Conference was held online and offline by the Ministry of Education. With the theme of promoting the development of the centers, the conference reviewed the overall development of the centers in 2022, shared the achievements and experiences of each center in innovation and entrepreneurship talent training, international exchanges and cooperation between China and the United States, and the transformation of scientific research results, and discussed the prospects of future cooperation. At the meeting, the Ministry of Education announced the 2022 annual evaluation of maker centers and announced the outstanding achievement awards. The BNU China-U.S. Young Maker Center won four major prizes, which are the Innovation Exchange Demonstration Award, Excellent

Work Case Award, Excellent Team Award and Excellent Mentor Award.

Many officials attended the event and delivered speeches, including Chen Dali, Deputy Director General of the Department of International Cooperation and Exchanges of the Ministry of Education, Shari Bistransky, Acting Minister and Counselor of the Press and Cultural Section of the U.S. Embassy in China, Zhou Bin, Secretary General of the Innovation and Entrepreneurship Education Steering Committee of the Ministry of Education, and Li Xiaozhe, Deputy Director of the Chinese Service Center for Scholarly Exchange of the Ministry of Education. Representatives from more than 20 universities such as Beijing Normal University, Tsinghua University, and Shanghai Jiao Tong University, and many enterprise

representatives also attended the meeting.

BNU China-U.S. Young Maker Center is one of the first 18 China-U.S. Young Maker Centers designated by the Department of International Cooperation and Exchanges of the Ministry of Education. Based on the discipline of psychology, BNU's preponderant discipline, the center has pooled multi-disciplinary resources and efforts from all walks of society to promote the dialogue between Chinese and U.S. universities, enterprises and other entities. During its efforts, the center has been sticking to two basic principles, one is to achieve more effective transformation of mass innovation results, and the other is to pursue closer Sino-U.S. maker exchanges and exhibition. The center is also one of the important platforms for Beijing Normal University to exchange and cooperate with the United States.

China's 39th Antarctic Expedition Team, BNU Exchanges New Year Congratulatory Messages

Article source: BNU College of Life Sciences | Release date: 2023-01-01



Lin Zixuan, PhD student of BNU College of Life Sciences

Liu Meijun, PhD student of BNU College of Life Sciences

On December 29, the 39th Chinese Antarctic expedition team sent a New Year congratulatory message to teachers and students of Beijing Normal University, extending their sincere greetings and heartfelt gratitude.

The message said that the expedition team has overcome the difficulties brought by severe ice conditions outside Zhongshan Station and the complicated sea ice environment outside the new Ross Sea Station. With careful planning and organization, it has successfully completed some major tasks such as cargo unloading at Zhongshan Station and the new Ross Sea Station. The inland team has also set off smoothly and approached Kunlun Station, and the fixed-wing aircraft team has carried out scientific research such as line survey in an orderly manner. Scientific research and operational projects such as oceanic and station-

based exploration are also progressing smoothly. The message stressed that all these achievements could not have been achieved without BNU's long-term concern and strong support for the polar expedition cause. The expedition team said in the letter that in the new year, the team and BNU would closely unite around the CPC Central Committee with Comrade Xi Jinping as the core, fully apply Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, so as to make unremitting efforts to reach the Second Centenary Goal and realize the great rejuvenation of the Chinese nation.

Beijing Normal University replied and sent New Year greetings to China's 39th Antarctic expedition team. BNU expressed its willingness to continue to work with the Antarctic expedition team to scientifically understand, utilize

and protect Antarctica under the guidance of the spirit of the 20th CPC National Congress, so as to make new contributions to building China into a major modern country with Chinese characteristics in the new era.

Lin Zixuan and Liu Meijun, PhD students in the research team led by Deng Wenhong, professor of BNU College of Life Sciences, went with the expedition team to investigate the species diversity and population of birds and mammals in the Amundsen Sea and the Cosmonaut Sea. At the same time, they are supposed to attach GPS markings to penguins, so as to understand their movement characteristics and range, and take samples for phylogeny analysis. So far, BNU College of Life Sciences has sent 21 people to participate in 10 Antarctic scientific expeditions, making important contributions to China's polar expedition.



世界数字教育大会

WORLD DIGITAL EDUCATION CONFERENCE

数字变革与教育未来

DIGITAL TRANSFORMATION AND FUTURE OF EDUCATION

中国·北京 2023年2月13-14日 Beijing · China February 13th-14th 2023

World Digital Education Conference

Article source: Official website of World Digital Education Conference | Release date: 2023-02-13

Background

A new round of scientific and technological revolution and industrial transformation is accelerating in today's world. Driven by innovation and technological development, digital transformation is reshaping society, the labor market and the future of work. Education has become an important player in this process. The growth of connectivity, the widespread use of devices and digital applications, as well as the growing demand for digital skills are all pushing forward digital transformation in education.

At the same time, the COVID-19 pandemic has brought huge challenges to global education. Since 2020, some 147 million students have been

deprived of more than half of their face-to-face instruction, and more than 90 percent of children have been facing learning difficulties in the whole world. In 2021, 244 million children and young people were out of school. The pandemic has triggered an unprecedented level of urgency for mass online learning, accelerating the process of digital transformation in education.

The just-concluded UN Transforming Education Summit identified quality digital learning as one of the five priority areas for action. Most participating countries included digital learning as a key content in their National Statements of Commitment. China stated in the National Statement

that we will further implement the National Strategic Action for Education Digitalization, enrich the supply of digital educational resources, build an extensive and open learning environment, and expedite resources sharing among learning platforms of different types and at different levels, advance the integration of new technology and education and learning, to accelerate the digital transformation of education.

In this context, World Digital Education Conference was held in Beijing, China on 13-14 February 2023, co-hosted by the Ministry of Education of the People's Republic of China and the Chinese National Commission for UNESCO.

Objectives and Theme

The conference aimed to work with governments, schools and universities, enterprises and other stakeholders, relevant international organizations and non-governmental organizations to jointly implement the outcomes of the UN Transforming Education Summit, discussed how to promote education recovery in the post

pandemic era and equitable quality education through digital education transformation, and advanced the realization of the United Nations Sustainable Development Goals.

With the theme of "Digital Transformation and Future of Education", the conference focused

on digital education transformation, development and application of digital learning resources, improvement of digital literacy of teachers and students, digital governance of education, and evaluation of digital education development in basic education, vocational education, higher education and other fields.

Participants

The following representatives were invited to attend the conference, including:

- State leaders and Education Ministers from relevant countries,
- Diplomatic envoys from relevant countries,
- Heads and representatives of UN agencies,
- Heads and representatives of relevant international organizations,
- Heads and representatives of relevant non-governmental organizations,
- Heads and teachers of universities and schools,
- Representatives of research institutions, experts and scholars,
- Representatives of digital and technology companies

Agenda

The opening ceremony and plenary session were held on 13 February, followed by 4 parallel sessions on 14 February, with the focus on basic education, vocational education, higher education and evaluation of smart education development.

The conference was held in a hybrid format. Domestic participants joined on-site, while overseas participants were welcome to use Zoom for real-time interactions.

February 13th (Monday)

Opening Ceremony

15:00-15:10

Warm-up Show: Online Symphony and Chorus by Teachers and Students Worldwide

15:10-15:45

Address by High-level Official of the State Council of P.R.C

Addresses by High-level Officials of foreign countries and International Organizations

15:45-16:10

Tea Break

15:50-16:10

Signing Ceremony of Agreements between the Ministry of Education of P.R.C and China Mobile, China Unicom, and China Telecom

Plenary Session

16:10-16:30

Keynote Speech by Mr. HUAI Jinpeng, Minister of Education of P.R.C

16:30-17:40

Video Addresses and On-Site Remarks by International Organizations, Education Ministers, Ambassadors, University Presidents, High school principal and Person in charge of Enterprise

17:40-18:00

Release of Conference Deliverables China Smart Education Bluebook and China Smart Education Development Index The Standards and Norms for the

Construction of the Smart Education The Initiative of Establishing World Digital Education Alliance Call for Global Partnership on Digital Education Development

Side Events
Whole Day

Exhibition of High-quality Digital Lectures in Primary and Secondary Schools Exhibition of Applied Digital Education Facilities February 14th (Tuesday)

Parallel Sessions

15:00-18:00

Empowering High Quality Development of Basic Education with Digitalization Digital Transformation and Development of Technological and Vocational Education and Training Promoting Innovative Development of Higher Education with Digital Transformation Evaluation of Smart Education Development

such topics as digital campus, IoT, digital twin, digital literacy and so on.

China places great importance on standard development for digital education. China's Education Modernization 2035 has set a clear goal to improve the standard system for education quality. In the implementation of the national education digitalization strategic action, the importance to enhance the standard and norm system for educational digitalization was further emphasized, which calls for stepped-up efforts to roll out related standards and norms timely, so as to support the implementation of the strategic action.

The WEDC published seven standards for the smart education platform in the four areas of platform, data, resources and literacy.

First, on platform, Smart education platform—Basic functional requirements were announced. It defines the requirements for the basic functions of smart education platforms at all levels and of all types, which provides important rationales for the development and management of the smart education platform system.

Second, on data, three standards were announced, namely, Common education data, General personnel data in education system, and Common data specification for primary and secondary schools. They have selected the frequently used, general and core data from education management to fully support data aggregation and safe sharing, so as to provide guarantee for education management and decision-making and help to improve the level of education governance.

Third, on resources, two standards were announced, namely, Basic classification codes of digital education resources and Smart education platform—Technical requirements for digital education resources. They have specified the requirements for the development and application of various digital education resources from multiple perspectives, thus providing an effective pathway for joint contribution and sharing, quality



Common data specification for primary and secondary schools



Smart education platform —Basic functional requirements



Basic classification codes of digital education resources



Common education data



Smart education platform —Technical requirements for digital education resources



General personnel data in education system



Digital literacy of teachers

Publication

Standards for the Smart Education Platform

Standardization, as an important hallmark of modern industrial civilization, is a major benchmark for assessing the level of social management and a crucial tool for upgrading industrial development. Today, countries around the world are actively promoting the digital transformation of education in a bid to improve the quality of education via the application of digital technologies. Research and development of standards and norms for digital education will accelerate the digital and intelligent transformation of education and then vigorously promote education modernization.



China takes an active part in the development of international standards for educational informatization. Based on the China E-Learning Technology Standardization Committee under the Ministry of Education, China is playing an active role as a member country at ISO/IEC JTC1/SC36 in working together with other countries across

the globe to promote the international standard setting for digital education. Of the 55 international standards already published by this organization, China spearheads 8, plays an integral part in 14, and works as the convenor for three working groups. In recent years, China has proposed and edited four international standards and shared its experience on

control and sustained development of digital education resources.

Lastly, on literacy, Digital literacy of teachers, which was released on the day, describes the digital competence that teachers should have in the future from the five dimensions of digital awareness, digital technology knowledge and skills, digital application, digital society responsibility and professional development,

with a view to promote in-depth integration, application and innovation of digital technology and teaching.

Digital education propels education transformation and benefits all learners. There is still a long way ahead for future standardization in this area, which calls for countries across the world to work together. We thus suggest that all countries strengthen cooperation

and promote resource sharing for the development of international standards in digital education to build a community of digital education standardization. In doing so, we will make digital education open, inclusive and resilient, enable people of all countries to share the accomplishments of education reform and development, and jointly open up a new prospect for the future of digital education.

The Initiative of Establishing World Digital Education Alliance

Education is an important cornerstone in social progress. It also has decisive significance for improving the comprehensive quality of global citizens, promoting the all-round development of human beings, and enhancing the vitality of innovation and creativity. The world is going through a new period of turbulence and change, where humanity is facing complex and severe challenges. Only by transformation and action in education, can we achieve the 2030 goals and contribute to the promotion of sustainable human development and world peace. We should harness the power of digital revolution and commit to providing quality education and lifelong learning to all as a common good, with particular attention to the most marginalized groups.

Digital education has created new channels and more possibilities for international cooperation in education. Education stakeholders across the world should leverage digitalization to drive

education transformation and respond to national and international demands for education and lifelong learning while making advantage of digital technologies. We should also promote shared and interconnected digital education resources to make education more inclusive, equitable, effective, relevant, and sustainable. Meanwhile, all stakeholders are encouraged to actively explore mechanisms of international cooperation in digital education; synergize efforts for global educational development; and jointly create new room and vision for the future of Smart Education.

On behalf of the Chinese education community and in conjunction with relevant institutions, China Education Association for International Exchange (CEAIE) will jointly launch the initiative of establishing World Digital Education Alliance (WDEA).

WDEA Vision

Looking to 2030 and beyond, WDEA

is committed to creating synergies for education transformation, establishing a global digital education partnership, seeking to use emerging technologies to optimize digital education solutions, building a Smart Education ecosystem, and promoting more inclusive, equitable, and high-quality development of education.

WDEA Mission

1. To connect educational technology organizations for disseminating generic policies and innovative strategies at national, regional, and school levels toward achieving SDG 4 targets.

2. To promote state-of-the-art technologies, practical experiences, and best practices to support researchers, teachers, and technicians for digital education transformation.

3. To showcase and leverage China's experience in digital education and digital transformation of education



that is open, inclusive and resilient, and contribute Chinese solutions and wisdom to the world based on inclusive cooperation, mutual learning, joint building and sharing among member countries.

WDEA Activities

1. WDEA will hold regular meetings and publish relevant achievements and annual reports. WDEA will also share with Alliance members and the general public the development of digital education at the national, regional, and school levels as well as innovative concepts and best practices of digital education.

2. WDEA will develop education assessment and monitoring toolkits to support Alliance members with IT solutions in Smart Education.

3. WDEA will carry out flagship projects for international cooperation, cooperate with WDEA members to build public platforms, provide public goods and services, and share open educational resources and technical solutions.

4. Through the digital training center, WDEA will collaborate with WDEA members on digital education training projects for teachers and technicians.

Benefits and Obligations of WDEA Members

WDEA will provide all members with

resources and cutting-edge information on digital education and research, in addition to training in various forms and contents. WDEA will also offer tools for monitoring and evaluating progress in Smart Education and advocate for experience and resources-sharing among its members.

WDEA members shall identify with the values and vision of WDEA, understand its objectives and mission, and have relevant knowledge and capabilities. WDEA members are also expected to have experience in digital education and be able to initiate and provide guidance to a range of programmes, in forms of consultation, research projects and plans, technology development and diffusion, and teaching and learning involvements.

WDEA Membership

WDEA members include, but are not limited to, the following categories:

1. Educational entities: including K-12 Schools, technical and vocational education and training (TVET) schools/centers, universities, and colleges. WDEA would offer Open Educational Resources (OERs), Open Educational Practices (OEPs), teacher professional development, as well as training for soft skills (e.g., leadership) and hard skills (e.g., technical). WDEA would also serve to offer a sense of community and promote lifelong learning opportunities. Meanwhile,

educational entities are requested to actively collaborate, participate in research projects, and share their experiences in relation to educational technology tools.

2. Organizations and research institutes: including intergovernmental organizations, international organizations, and think tanks. WDEA would share its research findings and resources, including materials from research projects and its experience in research funds applications. WDEA would also support with tools to monitor and evaluate Smart Education progress. Meanwhile, organizations and research institutes are requested to develop a partnership to leverage the Transforming Education Summit Digital Learning Action Track by sharing their experiences, collaborating on research projects, and providing research findings and resources.

3. Enterprises: including technology companies and educational technology companies. WDEA would provide research and development innovations and feasibility studies towards developing new services or products and improving existing ones. Meanwhile, WDEA requests enterprises to provide open use of their EdTech applications, opportunities of using their tools for research, and assistance in terms of resources, funds, networks and experiences.

Call for Global Partnership on Digital Education Development

In this era, digital technology, the leading force of the world's scientific and technological revolution and industrial transformation, is increasingly integrated into education and many other areas of economic-social development and its entire process. It is profoundly changing the modes of production, lifestyles, and social governance. The UN Transforming Education Summit held in 2022 highlighted that global education faces severe challenges and learning crises, which entails an urgent transformation of education, a full exploration of the power of digital transformation, and a universal provision of quality education and lifelong learning opportunity as a common good. The World Digital Education Conference, organized against the backdrop of opportunities and challenges brought about by digitalization, calls for the international community to strengthen dialogue and exchanges, deepen practical cooperation, and make concerted efforts to promote



the digital transformation and the realization of Education 2030 Agenda.

The World Digital Education Conference proposed the following initiative for global collaboration and partnership:

First, strengthen policy dialogue and communication. Policies are the key drivers for the digital transformation of education. We advocate that countries strengthen policy dialogue on education digitalization and conduct extensive

and in-depth exchanges on new concepts, strategies, plans, standards, as well as monitoring and evaluation of education digitalization. We call on countries to jointly promote increased investment in education digitalization, encourage stakeholders to actively participate in the digital transformation of education, jointly deliberate on effective policies to narrow the digital divide, improve education equity, inclusiveness, and quality, and secure the compliance of digital applications with safety and ethical norms.

Second, improve connectivity infrastructure. Infrastructure construction is the prerequisite for the digital transformation of education. We advocate for enhanced exchanges and collaboration in the design of digital education infrastructure systems, the construction of digital education platforms, smart campuses, and cyberlearning space, as well as the development and application of information security technology, with an aim to enhance the connectivity of digital education infrastructure and jointly create a global smart learning environment where everyone can learn anywhere at any time.

Third, promote digital resource sharing. The open sharing of digital educational resources is one of the critical measures to narrow the digital divide and education gap. We call upon all stakeholders to adhere to the principle of joint contribution and shared benefits, and build public service platforms of digital educational resources for diversified needs. Based on the protection of intellectual property rights, we call on stakeholders to engage more people in the development of digital educational resources, aiming to expand access to high-quality digital educational resources, especially for disadvantaged areas and groups, and hence safeguard education equity

and inclusiveness.

Fourth, promote the exchange in technology integration and application. Application is the most fundamental and powerful impetus for education digitalization. The deep integration of digital technology into education has the great potential to foster new education forms, innovate the relationship between teaching and learning, and boost the reform of educational governance. We call for enhanced exchanges of best practices in the application of education digitalization. We encourage countries and stakeholders to collaborate on evidence-based research, curriculum development, as well as innovative applications of digital technology in teaching and learning. We call for a collective exploration of new approaches for talent cultivation in the digital era and new models of digital education governance, as well as a joint effort to accelerate the upgrading of digital education.

Fifth, implement capacity-building cooperation. Capacity building is an effective guarantee for the success of the digital transformation of education. We call on all countries and stakeholders to carry out extensive exchanges and collaboration in teacher and administrator training, share training resources, collaborate in developing

digital solutions for teachers to prepare and deliver lessons, co-develop digital competency courses for students and co-construct e-libraries for teachers, and collectively implement capacity-building for women, girls and people with disabilities through digital education.

Sixth, establish and improve international cooperation mechanisms. International cooperation provides important momentum for digital transformation. We call on all parties to work together to contribute to the success of the World Digital Education Conference and build a long-term mechanism and platform for international exchanges and cooperation. We call on all parties to jointly establish the World Digital Education Alliance and foster a comprehensive, pragmatic, and inclusive high-quality partnership. We call on all parties to actively carry out South-South and North-South-South cooperation, with an emphasis on developing countries, in particular Africa and small island countries. We call on all parties to focus on the solutions to the problems faced by the youth in developing digital education, fully galvanize the youth's potential to create and innovate, jointly build a global community of digital education with a shared future, and create a better future of education together.

China Smart Education Bluebook 2022 & China Smart Education Development Index

Article source: China Daily | Release date: 2023-02-15

As China moves toward a modern country with a strong education sector, smart education must see greater growth, according to a new bluebook.

Digital technologies are the bedrock for smart education, which features diverse data application and sharing, and calls for the collective creation and sharing of digital education resources and a renewed commitment to a global community of smart education, said the China Smart Education Bluebook 2022.

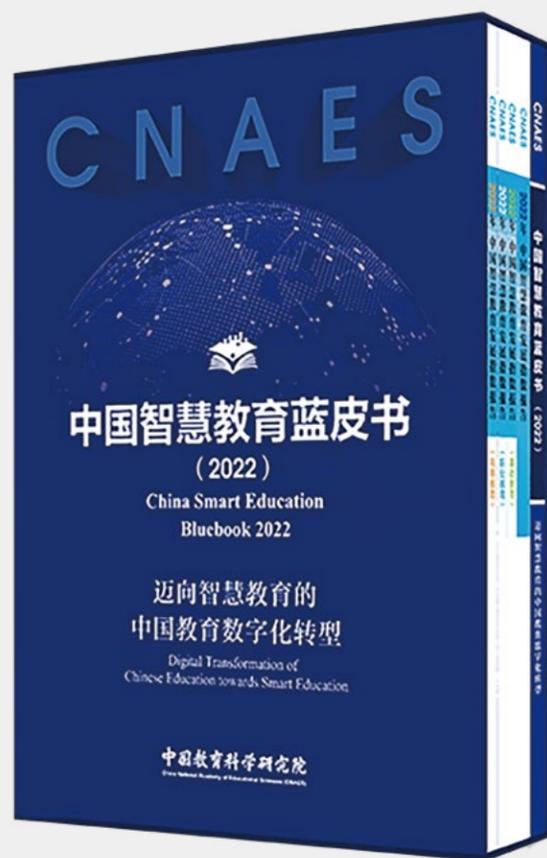
The bluebook was released by the China National Academy of Educational Sciences during the World Digital Education Conference, which was held in Beijing from Monday to Tuesday.

As digital technologies integrate deeper into education, countries will be able to draw on each other's strengths, allowing smart education to benefit all, the bluebook said.

More efforts are needed to integrate new technologies seamlessly into

teaching to meet the needs of learners. The use of technologies, facilities and devices should not be the sole focus in the efforts to create a smart learning environment, and improving teaching methods and practices is also important, it said.

The integration of digital technologies in education results in a fundamental shift in teachers' roles and functions. Efforts to nurture smart teachers should focus on reshaping their ideas, awareness and digital competency



and enabling them to become more competent in guiding students' development, the bluebook said.

It is essential to prioritize the construction of digital education infrastructure in rural, remote, impoverished areas, and digital skills training should be incorporated into the education system to improve the digital literacy of all people, especially students, said the bluebook.

The bluebook stressed the need to conform to technology ethics and protect data security to ensure the healthy growth of smart education. It is vital to define the boundary for AI applications in education, and measures should be taken to avoid information cocoons and algorithmic discrimination resulting from misuse of algorithms in smart education, it said.

The bluebook suggested including smart education in the broader agenda of China's transition to a digital and smart society.

While national public service platforms like the Smart Education of China should play a central role in enabling lifelong learning for all people, it is also important to engage the private sector in smart education, increase the connectivity among different platforms and develop more applications in this area, the



bluebook added.

Based on the objective reality that the development of smart education is in primary stage, the Smart Education Development Index Report explores to establish an evaluation index system consisting of four first-level dimensions and 12 second-level dimensions, attempts to quantitatively evaluate the development level of China's smart education. It also represents three sub-reports in different fields, which are basic education, vocational education and higher education, so as to provide reference for effectively promoting smart education.

While the digital age comes, all countries in the world have been paying attention to promoting the digital transformation of education and exploring smart education. In 2022, China launched the

National Strategic Action for Education Digitalization and built national public service platforms and the world's largest library of education and teaching resources. The platform has been viewed more than 5.87 billion times with users coming from more than 200 countries and regions. Being the pioneer to develop smart education, it has played an important role in supporting the COVID-19 response and bridging the digital divide. As a national education think tank, the National Institute of Education Sciences focuses on developing smart education, pools domestic and foreign practice and research results, extensively solicits opinions from all parties, so as to build consensus in compiling the China Smart Education Bluebook and China Smart Education Development Index.

Speech

Chinese Vice Premier Urges Efforts to Launch more High-quality Digital Education Services, Products

Article source: Xinhua | Release date: 2023-02-14



Noting that modern information technology has a revolutionary impact on the development of education, Sun said the Chinese government attaches great importance to the development of digital education, and that through continuous efforts, 290 million students in schools across China now have access to high-quality education.

China is willing to deepen international cooperation in digital education and strengthen the alignment of education policies and standards so as to make the fruits of digital education benefit more people of all countries, Sun said, adding that China is also ready to make a greater contribution to the progress of human civilization and the building of a community with a shared future for mankind.

Based on the theme of digital transformation and future of education, the event is being attended by representatives from more than 130 countries and regions.

BEIJING — Chinese Vice Premier Sun Chunlan on Monday urged efforts to introduce more high-quality digital education services and products.

Sun made the remarks while addressing the opening of the World Digital Education Conference, which opened in Beijing on Monday.



Digital Reform and Education's Future: Keynote Speech by Huai Jinpeng, Minister of MOE, at World Digital Education Conference

Article source: Information Office of the Ministry of Education | Release date: 2023-02-13

Digital Reform and Education's Future: Keynote Speech at World Digital Education Conference

Huai Jinpeng, Minister of MOE
(February 13, 2023)



Distinguished guests, ladies and gentlemen, dear friends,

Just now, we witnessed the opening of the conference. Chinese leaders and the government attach great importance to this conference. Vice Premier Sun Chunlan attended and addressed the conference, stressing the need to build the national smart education platform into an important public service product in the field of education, promote the integrated development of digital technology and traditional education, and call on all countries to work together to uphold fundamental principles and break new ground, so that the fruits of digital education will benefit more people in the world. The vice-premier's speech conveys that the Chinese government attaches great importance and ardently expects to promote the high-quality development of digital education, the all-around development of people and the progress of social civilization.

Digital transformation is an important carrier and direction of education transformation in the world. Themed digital transformation and education's future, this conference aims to implement the global development initiative put up by President Xi Jinping at the UN General Assembly and the global digital development path pointed out during the World Internet Conference. This conference also aims to echo the vision statement of UN Secretary-General Antonio Guterres at the Transforming Education Summit. As a result, people will be able to explore new solutions to the global education crisis in this turbulent era. This conference will actively promote international cooperation in digital education, build consensus on education reform, boost confidence in global cooperation and development, and create a better future for education.

Ladies and gentlemen, dear friends,

At the 17th G20 Summit on 15 November 2022, President Xi Jinping pointed out that the world today is undergoing profound changes unseen in a century, which are changes in the world, the times and history. In a period full of new turbulence and changes, complex factors such as global warming, anti-globalization, economic recession and regional conflicts are intertwined. The COVID-19 pandemic has intensified uncertainty and instability, severely hindered global poverty reduction, and made human society face unprecedented challenges. People around the globe are all wondering what is wrong with the world and what we should do. It is a question for all people in this era.

At the same time, the new round of scientific and technological revolution and industrial transformation is gaining momentum. Digital technology is increasingly becoming a leading force driving fundamental changes and all-around restructuring in the way of thinking, organizational structure and operation mode of human society. It provides new major opportunities for us to find new development paths, reshape society forms and promote progress. Also, challenges have been coming along. Thus, what education is and where education should go, has become a topic for the common concern of countries around the world.

It is heartening to see that the United Nations and countries around the world are vigorously taking actions to take digital education as an important way to tackle the crisis and challenges and open up a bright future. UNESCO advocates a new social contract that will give full play to the educational dividends brought by digital technologies and better highlight education as a global public good. The UN Transforming Education Summit argued that the digital revolution should benefit all learners. In response, many countries have introduced digital development strategies, while taking education as an important component. The effective actions of all

parties will further enhance the four pillars of education in the digital age, namely learning to learn, learning to coexist, learning to work, and learning to behave.

Ladies and gentlemen, dear friends,

The Chinese government attaches great importance to the development of digital education and regards it as an important part of the overall plan of building a digital China. After years of continuous efforts, China's education informatization has achieved leapfrog development, with campus Internet access rate reaching 100 percent and 99.5 percent of primary and secondary schools enjoying multimedia classrooms. Major breakthroughs have been made in large-scale digital applications, injecting strong impetus into the development of China's education. In 2022, we fully implemented the national digital education strategy, put forward the 3C concept of Connection, Content and Cooperation, and followed the principle of application priority, service-orientation, simplicity and efficiency, and safe operation to integrate various typical applications and resource contents, so as to launch the national smart education public service platform. Thus, the digital technology has been leveraged to support the development of high-quality education with amplified, overlaid, multiplied, and continuous spillover effects. Since its launch nearly a year ago, the total number of visits to the platform has exceeded 6.7 billion, and it has become the world's largest educational resource library. The platform's achievements are mainly reflected in the following aspects:

Smart education supports basic education and brings qualified and balanced education into reality. The platform pools the country's best digital resources for basic education, covering 10 sections, 53 columns and 44,000 resources, including moral education, course teaching, physical education, aesthetic education, labor education, after-school services, teacher advanced study and training, family education, educational reform

experience, and teaching materials. It has allowed children in border areas, rural areas and big cities to have the same classes. They share the same education resources online and are just like personally on the scene of the same classroom. In the face of the severe challenges posed by the epidemic, schools are ordered to cancel offline classes. However, the platform has supported online learning for nearly 200 million primary and secondary school students in China, ensuring them to have classes as usual although the schools were suspended. During the winter and summer vacations, special seminars were conducted for more than 13 million teachers across the country to improve their teaching and research abilities.

Smart education supports higher education, allowing first-class courses in various universities to go outside the campus for sharing. Online courses are thriving around the world, and we have seized the opportunity. After 10 years of efforts, we have produced a large number of high-quality MOOC courses. At present, the platform has 76,000 famous teachers from universities and colleges, 27,000 high-quality MOOC courses and 1,800 national first-class courses. With this platform available, students can enjoy the best courses in the world. The platform has been welcomed by learners in many countries. More than 13 million international users from 166 countries and regions have registered on the platform. I have also seen online comments saying that the platform is a good place for students to study and adults to advance.

Smart education supports vocational education and helps more people acquire the ability to further develop their career. Relying on the platform, nearly 55 percent of teachers in vocational schools across the country are able to carry out blended teaching, exploring the use of digital technologies and resources such as virtual simulation and digital twin to create teaching scenes and solve problems in practice and training. For example, Hunan Automotive Engineering Vocational

College explores the practical training method of C+R remote control and on-site operation using 5G. Students can complete the practical training task by sending out remote operation instructions anytime and anywhere. At present, the platform has 1,173 online professional teaching resource libraries, more than 6,700 online quality courses, more than 2,200 open video courses, covering nearly 600 specialties. The platform's 215 cultivation projects of demonstrating virtual simulation training bases are distributed across the country, which help train technical and skilled talents and serve the comprehensive development of students and the high-quality development of economy and society.

Smart education facilitates employment and entrepreneurship, making the supply of talent and market demand more effectively matched. In 2022, the number of university and college graduates in China exceeded 10 million for the first time, which brought great talent and human resources to boost China's economic and social development. However, under the influence of many factors, such as the continued COVID-19 epidemic and increasing downward economic pressure, employment has also become a new pressure. We have upgraded and launched the national employment service platform for university and college graduates, strengthened communication between supply and demand parties, and accelerated the sharing of employment resources. In particular, we have sent precise job information to impoverished families, zero-employment families and graduates with physical disabilities. A total of 13.7 million job positions have been shared. According to a survey, about one third of fresh graduates have enjoyed effective employment with the help of the platform.

China has built a smart education platform system, aggregating high-quality, systematic and multi-type digital education resources to provide students and the public with open, all-day and supermarket-style services, which greatly promotes the digitization

and fair allocation of educational resources, satisfies the personalized and selective needs of learners, and provides for all a strong and broad digital support for lifelong learning.

Ladies and gentlemen, dear friends,

Education is closely related to people's growth and accompanied by the development of civilization. It is the oldest and most noble cause of mankind. Education has been changed by every major development and innovation of science and technology, as well as every industrial transformation and life style change. Digitalization is a new trend leading the future. The collision between education and digitalization will draw a more beautiful picture of education in human civilization. What kind of value orientation should be upheld in the process of breaking through the limitations of traditional education methods and actively creating new forms of digital education? We believe that:

Digital education should be equitable and inclusive. It is our common-value pursuit to promote inclusive education and to ensure that all students are taught while making no social distinctions in teaching. Digital technology enjoys interconnection, and is regarded as highly instant and efficient. Also, it enables dynamic sharing. As a result, it can quickly and efficiently gather dispersed high-quality resources, break through time and space constraints, spread and share resources across schools, regions and countries, and enable people in different environments to have equal access to educational resources and channels. At the same time, we need to prevent exacerbating educational inequities while applying digital technologies, so that the vision of quality education for all in any corner of the world can be turned into reality in a quicker manner.

Digital education should feature higher quality. Quality is the lifeline of education, and digital technology is

the method to improve the quality. The development of digital education can enrich the application scenarios such as intelligent classroom, adaptive learning, intelligent diagnosis of learning situations, and intelligent classroom evaluation, promote the integration of online and offline interaction, improve teaching methods, enhance the creativity, experience and inspiration during teaching, catalyze profound changes in classroom teaching, and innovate education, teaching and talent training modes. With the support of smart education, education management and evaluation will become more effective, so are people's learning and cognition ability. As a result, it will provide a strong impetus to deliver more quality education.

Digital education should be suitable for everyone. More than 2,500 years ago, Confucius put forward the ideal of teaching all students without discrimination, and teaching should be in accordance to the students' aptitude. In the long process of human civilization, we have been striving to realize competency-based instruction. Digital education can give play to its unique advantages in personalized learning, differentiated teaching and scientific grading. Through information tracking, digital backtracking analysis, and scientific monitoring and evaluation, it can describe the growth trajectory of students and provide personalized education programs for each. This will also help reshape human education, make it possible for everyone to receive appropriate education, and contribute to building a society in which people enjoy learning and pursue lifelong learning.

Digital education should feature green development. Green development is an economic growth and social development mode aiming at efficiency, harmony and sustainability. In the face of the increasingly serious global energy crisis, climate crisis and biodiversity crisis, education should not only be involved, but also play a fundamental role in promoting green economic and social development. We should follow the principles

of thrift, frugality, simplicity and efficiency in the development of digital education, focus on practical application and services, and not blindly pursue high-end facilities. We should focus on cultivating students' ability to adapt to and mitigate climate change, make rational use of digital teaching materials and aids, and promote digital education to become a catalyst and accelerator for low-carbon education transition, so as to boost green development and protect the common home of mankind.

Digital education should be open and cooperative. The digital age has brought us an efficient platform for open cooperation, which has become a key factor to promote educational reform and innovation in the new era. We need to adhere to the concept of cooperation, inclusiveness and win-win results, fully leverage our respective strengths, and promote common development whether we are to eliminate digital barriers, narrow the digital divide, enhance our ability to respond to crises in education, foster growth points for cooperation, explore new highlights of development, or promote education transformation and innovation. We should jointly strengthen communication and exchanges to encourage open cooperation in digital education, so as to enable more countries and people to board the express train of the digital era and share the fruits of digital education's development, and accelerate their educational reform.

Ladies and gentlemen, dear friends,

At present, the scientific and technological revolution is developing both in scope and in depth, the industrial transformation is accelerating, and the social governance is constantly being re-upped and upgraded. Production, life, thinking patterns and communication modes have changed. New business forms and models are emerging in an endless stream, and the diversified and flexible learning needs are increasing day by day. Thus, the current situation urgently requires reshaping the connotation and forms of education, and also provides

a platform and power engine for education reform and high-quality development. The 20th National Congress of the Communist Party of China made it clear for the first time to promote the digitization of education and build a learning society and superpower where people enjoy lifelong learning. We will further implement the strategic actions of digitization of education, comprehensively promote the digitization of resources, intelligent management, personalized growth and socialized learning. We will make quality resources replicable, disseminable and shareable, as well as make large-scale personalized education possible, so as to take new steps to build a learning society and a learning superpower with education digitization. To this end, we will focus our efforts on the following four aspects:

First, build a qualified national center to gather and share high-quality resources. Uneven distribution of educational resources is a common problem facing all countries in developing education. The wide application of digital technology has brought an opportunity to balance educational resources and narrow the gap between regions, urban and rural areas and different schools. On the basis of gained achievements, we will make full use of China's institutional advantages, talent advantages and resource advantages, accelerate system upgrading, service upgrading and function upgrading, and spare no effort to build a national digital education resource center.

We will establish a National Digital Resources Development Committee to coordinate the development of high-quality resources, the provision of public services, the management and application of digital resources, the lifting in quality of education, the empowerment by digital education, the academic research on policies, the innovation of practical applications, the construction of standards and norms and the safe and efficient operation. The national center will feature many functions, including resource development and utilization, public services, application

and development, comprehensive research and security operation and maintenance. At the same time, the center will serve as a model to drive the construction of regional education resource service centers. By strengthening the capacities of the national central hub, connecting regional centers, and realizing resource sharing and mutual recognition among users, a national digital resource public service system will be jointly built by multiple levels of national institutions and various parties.

Second, strengthen data empowerment and enhance the effectiveness of teaching. The development of digital education not only accumulates high-quality resources, but also precipitates massive valuable data, which provides an important tool and platform for countries to grasp the laws of education and teaching and the laws of students' growth, promote the combination of science education and humanistic quality, promote the combination of engineering education and practical ability improvement, and serve the all-around development of students. We will promote scientific and personalized teaching evaluation, use massive data to form learner portraits and educational knowledge maps, so as to better achieve individualized teaching.

We will also promote the diversification of education and teaching, strengthen teaching research in the digital education environment, help teachers improve their digital teaching ability, and further pursue innovative education and teaching models and assessment methods to improve teaching quality. We will facilitate highly efficient and precise education governance. Through technology applications such as artificial intelligence and big data, we will achieve business collaboration, process optimization, and structure reshaping and precise management to improve the efficiency of education management and make education decision-making more scientific.

Third, we need to enhance people's awareness on

digital trend and facilitate lifelong learning for all. The transformation of human society to the digital age not only puts forward urgent requirements for the socialization of learning, but also makes lifelong learning more and more accessible. Education has an important mission. We need to use digital technologies to accelerate the building of a more open and flexible education system that is equally accessible, suitable for and with everyone. We will actively promote learning for all. We will take the extensive and in-depth application of the national smart education platform as the starting point, and support the reading action and the silver age action. We will not only provide curriculum resources for students, but also provide an environment with rich learning services for the elderly and other members to society, as well as a learning platform for learners around the world, where everyone enjoys equal opportunities to learn and communicate.

We will continue to promote comprehensive learning. We will not only help students get more knowledge, qualities and skills, but will also promote language communication and mutual learning on history and culture, so that more people will be equipped with comprehensive qualities needed in modern society, enhanced cultural confidence, historical awareness and international understanding. We will also actively explore various forms of learning, make full use of MOOCs, micro-classes, and virtual reality, provide ubiquitous, diversified and intelligent learning environment and learning ecology, develop efficient and dynamic online education classroom, and realize "education is society, society is education."

We will further promote lifelong learning, use digital technology to provide flexible and diverse adult learning opportunities for employees, provide training for career development and transformation, build a new senior university system for the elderly population, and actively promote the improvement of systems such as

credit bank and qualification framework, so as to lay a more solid foundation for building a learning society where everyone can learn at any time everywhere.

Fourth, strengthen international cooperation to promote the development and prosperity of human civilization. The development of digital education enables young people of different nationalities, skin colors and languages to learn, think and grow together in a common digital space. It also enables people from different countries to carry out closer people-to-people exchanges, so as to deepen communication, understanding, inclusiveness and trust, eliminate estrangement and misunderstanding, promote mutual understanding among the people and promote the progress of human civilization. We should build more communication platforms and create more cooperation opportunities for young people, who are regarded as cyber natives and tide-riders in the digital age. We should help them to understand the diversity of cultures and enhance mutual recognition and understanding. We should also help them strengthen exchanges in digital learning and build momentum for the development of digital society. We look forward to working with our counterparts from other countries to explore the planning, standards, monitoring and evaluation of digital education, and carry out exchanges and cooperation in intellectual property protection, data security management, digital ethical risk prevention and privacy protection, so as to inject new impetus into human civilization and make unremitting efforts to build a community with a shared future for mankind.

Ladies and gentlemen, dear friends,

Facing the future, it is our common task and the responsibility endowed by the times to better inform people how to learn and help them learn to coexist, work, and behave well. With the World Digital

Education Conference as a new starting point, we are ready to work with other countries to launch an international version of the smart education platform, promote the joint development and sharing of high-quality digital resources, and design new carriers and mechanisms for international cooperation. Together, we can build comprehensive, pragmatic and inclusive partnerships and take global cooperation in the era of digital transformation to a new height.

Facing the future, we all have dreams. We should let the internet transcend time and space, let the connection take us across the mountains and oceans, let the cooperation transcend the misunderstanding, let open educational resources meet the needs of the times, and let digital dialogue and communication expand the channel of trust and development. Thus, we must strive to improve the ecology of digital education and widely benefit all learners. To realize this beautiful dream, we will always adhere to the philosophy of taking connectivity as the priority, being content-based and cherishing cooperation. Together with our counterparts around the world, we will forge ahead with determination, perseverance and courage, and take great strides to stay ahead of the times.

Ladies and gentlemen, dear friends,

Li Bai, a Chinese poet in the Tang Dynasty, once said, "A time will come to ride the wind and cleave the waves; I'll set my cloud-like sail to cross the sea which raves." To develop digital education and promote the digital transformation of education is the trend of the times, the need of development and the direction of reform. It is also the aspiration, responsibility and contribution of all educators. I am confident that as long as we work hand in hand, unite as one, seize opportunities and overcome difficulties together, we will surely sail to a better future.

Thank you!



A Student of BNU Selected as the 2022 Beijing Young Models of the Year

Editor: LIN Run | Release date: 2023-01-11

Beijing recently held an education event, 2022 Beijing Youth Models in which millions of young people have joined. A total of 60 young people with outstanding accomplishments were selected as the 2022 Beijing Youth Models of the Year through organizational recommendation, personal recommendation, and expert review.

Sha Ruixin, an undergraduate from LiYun Class of 2022, Faculty of Psychology, BNU was named as the 2022 Beijing Youth Model of the Year.

Sha Ruixin has been in a wheelchair for 12 years. This made her work harder and stronger. Since she became a glorious member of the Communist Youth League in October 2017, she has always maintained a strong sense of social responsibility and collective honor. She has won many honorary titles such as "National Outstanding Member of the Communist Youth League", "Capital New Era Good Youth", "Capital Campus Inspirational Figure", "Beijing Merit Student" and so on.



She is self-reliant, hard-working, insisting not to be trapped by disability, and constantly achieves self-breakthrough in a number of fields. She always maintained a studious attitude and rigorous attitude in studying, and finally was to the psychology major of Beijing Normal University with an excellent score of 669 points in the college entrance examination. She loves life and explores the beauty of the arts. At the age of 5, she began to learn playing the violin and got the certificate of Level 7. She won the third prize in the 21st Student Art



Festival Painting competition of Fengtai District. She is positive, optimistic and kind to others, once served as a student leader who used to be called as kind, sincere and trustworthy "sister Sha" by her classmates. During the epidemic period, she took an active role as a volunteer in the community. She also published her novel "See you at School! Nothing Can Stop Spring" in China Youth Daily, and drew many pictures to help the pandemic prevention work as much as possible.

Qu Zhiyong's Team from the School Of Social Development And Public Policy Published The Latest Research In The Sub-Journal Of The Lancet: Group Intervention By Social Workers Has a Significant Effect On Alleviating Children's Psychological Trauma

Article source: Website of BNU (English Version) | Release date: 2023-02-17

A study was published online in The Lancet Regional Health-Western Pacific on February 2, 2023, entitled "Effectiveness of a school-based, lay counselor-delivered cognitive behavioral therapy for Chinese children with posttraumatic stress symptoms: a randomized controlled trial". The first author of the paper is Li Jina, whose master's degree is in social work and doctoral degree is in public management from Beijing Normal University. She is currently a postdoctoral fellow at the State Key Laboratory of Cognitive Neuroscience and Learning. The co-author is Qu Zhiyong from Beijing Normal University.

During 2019-2020, this study was conducted as a randomized controlled trial among 234 trauma-affected children from 6 primary



Articles
Effectiveness of a school-based, lay counselor-delivered cognitive behavioral therapy for Chinese children with posttraumatic stress symptoms: a randomized controlled trial

Jina Li^a, Jia Li^b, Weijun Zhang^b, Gengchao Wang^c, Zhiyong Qu^a

^a State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, 100875, China

^b Center for Behavioral Health & School of Social Development and Public Policy, Beijing Normal University, Beijing, 100875, China

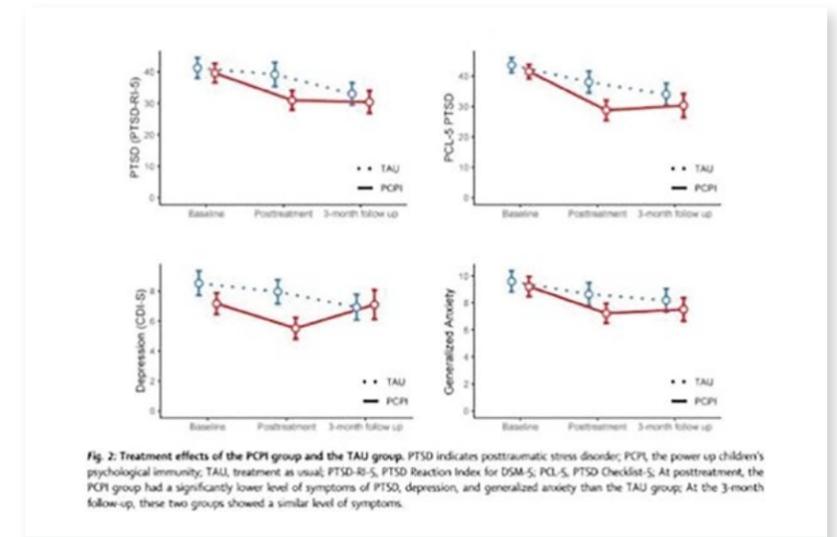
^c State Key Laboratory of Liver Research, University of Hong Kong, Hong Kong, 999077, China

schools in Henan Province. After random grouping, 118 children in the intervention group received 2-month PCPI group intervention provided by non-professionals, and 116 children in the control group received routine intervention provided by psychological teachers. Both groups of children completed assessments of the primary outcome variable (PTSD) and secondary outcome variables (depression, generalized anxiety) at baseline, posttest, and 3 months after the intervention. At baseline, there were no significant differences in demographic, clinical-psychological characteristics between intervention and control children.

Research result:

(1) PCPI group intervention can significantly reduce the severity of PTSD, depression and generalized anxiety in Chinese children

Data analysis found that children in the intervention group scored lower on the following symptoms than children in the control group: PTSD-RI-5 PTSD (intervention group 30.98 [17.22] vs control group 39.22 [21.10], $P = 0.001$), PCL-5 PTSD (28.78 [18.36] vs 38.04 [19.62], $P = 0.001$), depression (5.52 [3.99] vs 7.96 [4.41], $P < 0.001$) and generalized anxiety (7.23 [4.00] vs 8.64 [4.78], $P = 0.02$). At the 3-month follow-up, there were no significant differences in scores between the two groups.



As shown in Table 1, the PCL-5 PTSD remission rate of children in the intervention group was 42.86%, and more children in the intervention group no longer met the diagnostic criteria of PCL-5 PTSD (OR = 0.36, $\chi^2 = 13.10$, $P < 0.001$); The PCL-5 PTSD remission rate of children in the control group was only 13.54%.

(2) Laypersons demonstrate high fidelity in delivering PCPI team interventions

When non-professionals delivered PCPI group interventions, the average content fidelity of all topics was above 80%, and 72% of group activities achieved an excellent level of content fidelity, demonstrating the ability of non-professionals to master the set of interventions program, and carry out PCPI group intervention services for children.

Analysis conclusion: The intervention program (PCPI) developed by the research group for 7 groups (cooperating with about 3 cases) can significantly reduce the severity of psychological trauma in children in my country, and this intervention program is simple and easy to implement, and can be implemented by trained social workers delivered in a school setting. Of course, its long-term effect needs more research for further verification

This program helps to improve the accessibility of children's psychological trauma intervention services in my country, provides a new solution to alleviate the psychological distress caused by trauma to children, and provides a basis for exploring the effective supply of children's mental health intervention services in my country. a new way of thinking.

Reference: <https://www.sciencedirect.com/science/article/pii/S2666606523000172>



North Atlantic oscillation controls multi-decadal changes in the North Tropical Atlantic–Pacific connection

Received: 18 July 2022

Accepted: 8 February 2023

Published online: 16 February 2023

Check for updates

Ruiqiang Ding^{1,2}✉, Hyacinth C. Nnamchi^{3,4}, Jin-Yi Yu⁵, Tim Li⁶, Cheng Sun⁷, Jianping Li⁸✉, Yu-Heng Tseng⁹, Xichen Li¹⁰, Fei Xie⁷, Juan Feng⁷, Kai Ji¹ & Xumin Li¹

By exciting subtropical teleconnections, sea surface temperature (SST) anomalies in the North Tropical Atlantic (NTA) during boreal spring can trigger El Niño–Southern Oscillation (ENSO) events in the following boreal winter,

Prof. Ding Ruiqiang's Team Publishes Paper: North Atlantic Oscillation Controls Multi-Decadal Changes in the North Tropical Atlantic-Pacific Connection

Article source: Faculty of Geographical Science | Release date: 2023-02-18

El Niño–Southern Oscillation (ENSO) is the most significant signal of interannual variability in the tropical Pacific Ocean, which has a profound influence on global weather and climate through teleconnection. Previous studies indicated that the spring tropical North Atlantic Sea temperature anomaly can affect the development

and evolution of ENSO in the following winter. However, the interannual relationship between the tropical North Atlantic SST and ENSO is not stable with multidecadal changes. It cannot be directly explained by the Atlantic Multidecadal Oscillation (AMO) or the global warming trend.

Based on long time series

reanalysis data and numerical model experiments, Ding Ruiqiang, Professor of Faculty of Geographical Science, Beijing Normal University, and his collaborators propose a new idea that the interdecadal changes in the North Tropical Atlantic–Pacific connection is mainly controlled by the North Atlantic Oscillation (NAO). They propose

two mechanisms to explain the control of the NAO: (1) When the NAO was in the positive phase, significantly stronger northeast trade winds appeared in the tropical North Atlantic region, which enhanced the convergence of the equatorial Atlantic region at the lower level, resulting in increased water vapor content and precipitation in the equatorial Atlantic region at the lower level. The wetter basic state over the equatorial Atlantic is conducive to the tropical North Atlantic SST triggering stronger convection to enhance the influence on ENSO (Fig. 1a). (2) When the NAO is in a positive phase, the strengthening northeast trade winds deepen the oceanic mixing layer and enhances the wind–evaporation–SST (WES) feedback mechanism, thereby enhancing the persistence of tropical North Atlantic SST from spring to summer, contributing to the continued transfer of Atlantic influences to the Pacific (Fig. 1b). Different from previous studies, this study attributed the interdecadal changes in the North Tropical Atlantic–Pacific connection to the multidecadal changes of the NAO, rather than the AMO or the long-term warming trend of the Atlantic Ocean, which has important

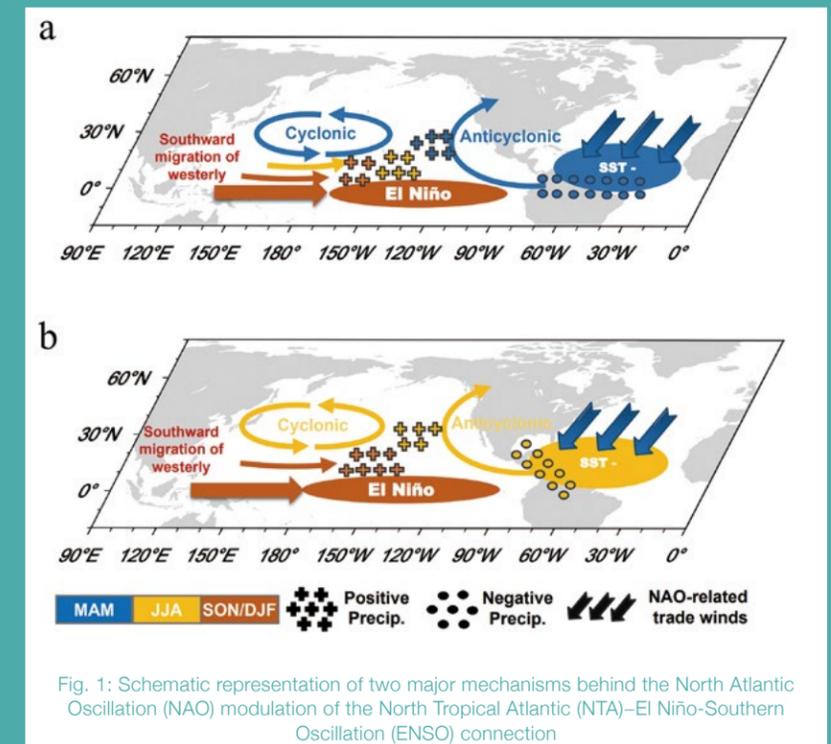


Fig. 1: Schematic representation of two major mechanisms behind the North Atlantic Oscillation (NAO) modulation of the North Tropical Atlantic (NTA)–El Niño–Southern Oscillation (ENSO) connection

implications for people to better understand the trans-basin interaction between the Atlantic and Pacific Oceans.

Professor Ding Ruiqiang is the first author and corresponding author of the paper, and Professor Li Jianping from Ocean University of China is the co-corresponding author. Co-authors also include Dr. Hyacinth C. Nnamchi of GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany, Professor Jin-Yi Yu from University of California, Professor Tim Li from University of Hawai'i, Professor Cheng Sun from

BNU, Professor Yu-Heng Tseng from National Taiwan University, Researcher Li Xichen from Institute of Atmospheric Physics, Chinese Academy of Sciences, Professor Xie Fei from BNU, Professor Feng Juan from BNU, Dr. Shi Liang from Lanzhou University, and Dr. Li Xumin Li from Nanjing University of Information Science and Technology. This research was jointly supported by the National Natural Science Foundation of China (42225501, 41975070), and China's National Key Research and Development Projects (2020YFA0608402).

Link of the paper: <https://www.nature.com/articles/s41467-023-36564-3>

Prof. He Lin's Team Publishes New Paper: Molecular Collapse States in Graphene/WSe2 Heterostructure Quantum Dots

Article Source: Department of Physics | Release date: 2023-02-16

Because of their similarity and uniformity across scales, physical laws often arouse deep thinking among scientists. Many phenomena in the microcosmic world, even effects on the cosmic scale, are governed by the same physical laws. A very typical example is: both atomic collapse in a heavy nucleus and Hawking radiation in a black hole are predicted to occur through the Klein tunneling process that couples particles and antiparticles. ACSs are one of the most famous predictions of quantum electrodynamics. When the atomic number exceeds 170, ACSs are formed, creating natural limits on the periodic table. In experiments, atoms with high atomic number are extremely unstable, so achieving ACSs in real atoms remains a great challenge.

Graphene's relativistic Dirac excitation with its relatively small Fermi velocity (1/300 of the speed of light) makes it an ideal platform to realize ACSs (only point charge $Z \geq 1$ is required). Realizing ACSs

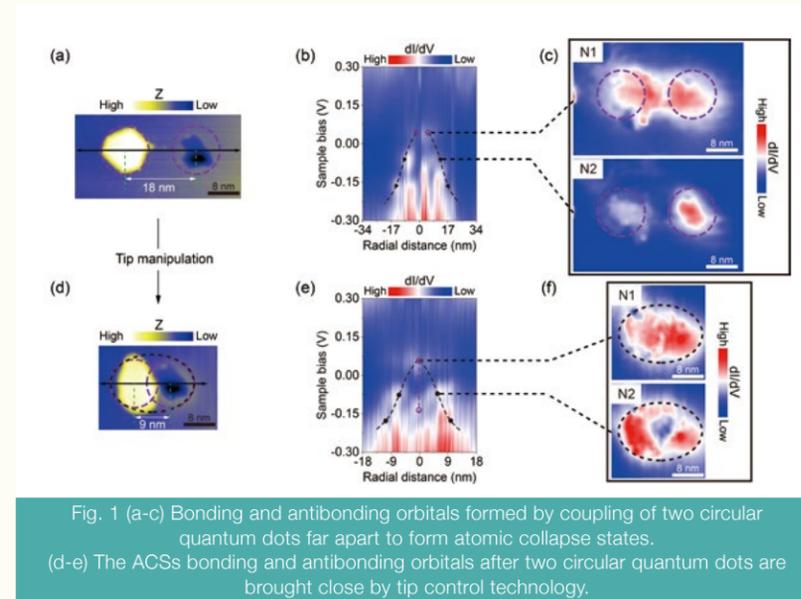


Fig. 1 (a-c) Bonding and antibonding orbitals formed by coupling of two circular quantum dots far apart to form atomic collapse states. (d-e) The ACSs bonding and antibonding orbitals after two circular quantum dots are brought close by tip control technology. (f) The ACSs bonding and antibonding orbitals after two circular quantum dots are brought close by tip control technology.

in graphene has been a huge success over the past few years. However, the essential role of the Klein tunneling in the ACSs remains elusive in experiment. Earlier, Professor He Lin's research group from BNU's Department of Physics worked closely with Professor Sun Qingfeng's research group from Peking University to demonstrate in experiment that two different types of quasibound states coexist

in the constructed graphene/WSe2 heterojunction quantum dots, which are ACSs and WGMs (quasibound states caused by Klein scattering). Recently, the two research groups collaborated again and found that antibonding orbital states of ACSs could be converted into WGMs by studying molecular collapse states in graphene/WSe2 heterojunction quantum dots, revealing the profound inherent

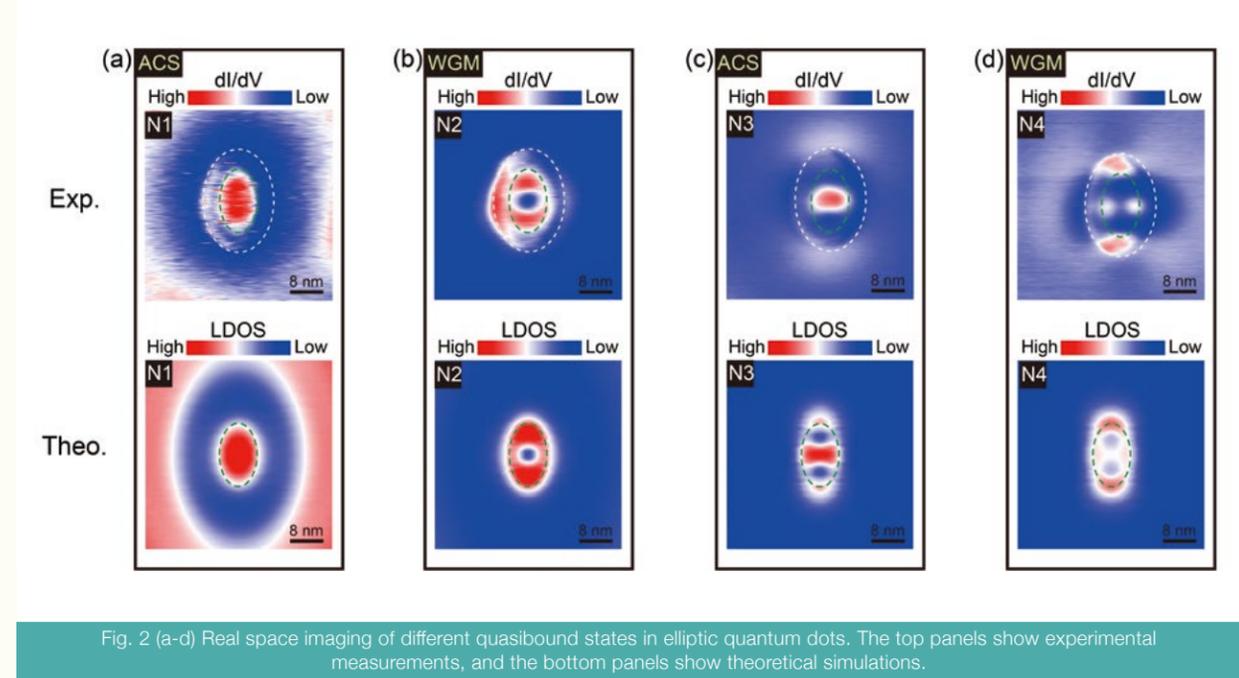


Fig. 2 (a-d) Real space imaging of different quasibound states in elliptic quantum dots. The top panels show experimental measurements, and the bottom panels show theoretical simulations.

relationship between ACSs and Klein tunneling effect.

During experiment, Professor He Lin's team studied the coupling behavior of two circular graphene/WSe2 heterojunction quantum dots with a scanning tunneling microscope system. As shown in Fig. 1, they controlled the distance between the two coupled quantum dots by using the tip control technique, and observed that the antibonding orbits of the two ACSs would slowly evolve into WGM constraints in the elliptic quantum dots with a reduced separating distance. They also investigated the behavior of a single elliptic quantum dot (Fig. 2) and found that it exhibited quasibound state characteristics, which is

similar to those of two coupled circular quantum dots, and further confirmed their view. Based on the experimental results of Professor He Lin's research group, Professor Sun Qingfeng's research group carried out sufficient theoretical simulation, and perfectly simulated the experimental results. Their results proved that ACSs and WGMs can transform into each other, and revealed that the two quasibound states are intrinsically related, reflecting the transmitted and scattered parts of Klein tunneling respectively.

These findings were recently published in the international journal Physical Review Letters, and the head is Molecular Collapse States in Graphene/WSe2 Heterostructure

Quantum Dots. Zheng Qi, a PhD student in Professor He Lin's research group, is the first author. Zhuang Yuchen, a PhD student in Professor Sun Qingfeng's research group at Peking University, did theoretical calculations for the research and is the first co-author. Professor Sun Qingfeng from Peking University and Professor He Lin from BNU are the corresponding authors. Also involved in finishing the paper are Ren Yaning and Yan Chao, PhD students in Professor He Lin's research group. This research received financial support from the National Natural Science Foundation of China, China's National Key Research and Development Projects of the Ministry of Science and Technology, and BNU.

Link of the paper: <https://link.aps.org/doi/10.1103/PhysRevLett.130.076202>



Photo from: Weibo of BNU

Photo by: @ 海然海然



Photo from: Weibo of BNU

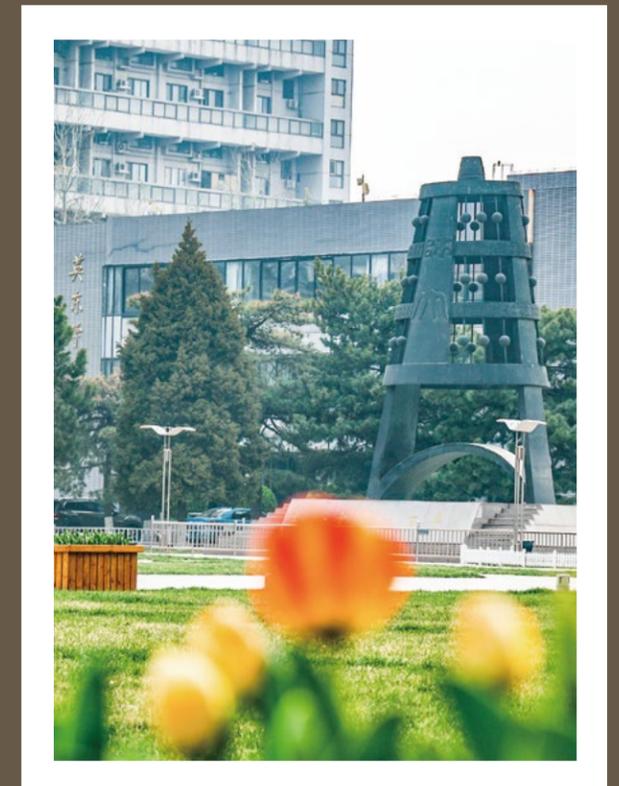


Photo from: Weibo of Graduate Student Union of BNU



Photo from: Weibo of BNU

62 | Spring 2023 | Issue 14

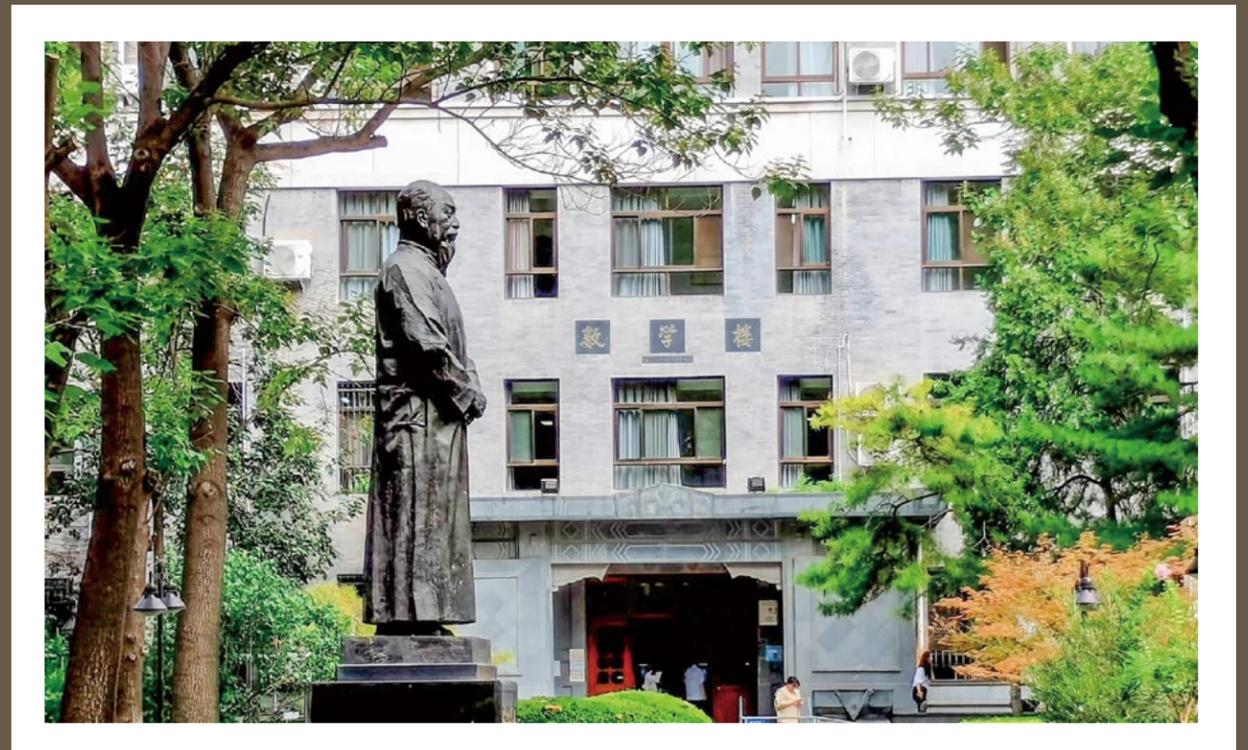


Photo from: Weibo of BNU

Photo by: @ 海然海然



北京師範大學
BEIJING NORMAL UNIVERSITY

Office of International Exchange & Cooperation
Beijing Normal University

Address: No.19, Xijiekouwai St, Haidian District,
Beijing, 100875, P.R.China

Phone: (+86) 10-5880-7170

Fax: (+86) 10-5880-0823

Email: bnunewsletter@bnu.edu.cn