

# Jing Shi Wisdom & Learning

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Be in awe of education, for it shapes the soul of human,  
Be cautious to technologies, for its adoption has to be effective,  
Be entangled with 'wisdom', for uncertainty tends to be increasing,  
Be serious to academics, for academic research needs evidence.

-Dean Ronghuai Huang, delivered at the closing ceremony of the Second US-China Smart Education Conference on March 20, 2017



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北京师范大学智慧学习研究院  
Smart Learning Institute of Beijing Normal University

# Smart Learning Institute of Beijing Normal University

The Smart Learning Institute (SLI) of Beijing Normal University is a comprehensive experimental platform involving scientific research, technology development and instructional teaching, which is jointly established by Beijing Normal University and a global educational technology company, Eternity (a subsidiary of NetDragon). SLI focuses on finding learning patterns powered by ICT, creating smart learning environment and platforms for lifelong learning, as well as supporting diversified, personalized and differential learning needs for digital learners.

- ▶ Focusing on the methods of design, optimization and evaluation for learning environment as well as developing the key technologies for learning environment engineering aims at providing a widely-spread solution for promoting smart learning.
- ▶ Constructing the theory of smart learning and exploring the approaches of integrating ICT with Education aims at offering an international exchange and cooperation platform to smart learning research.
- ▶ Studying on the characteristics and patterns of schooling, family education, community education, enterprise learning and public learning aims at providing support for constructing a learning-oriented society and smart city.
- ▶ Expanding the experimental areas and schools for smart learning as well as exploring the characteristics of ICT-based instruction and the models of future schools aims at promoting educational transformation and innovation.



Co-Dean Dejian LIU

Chairman of the Board, Executive Director of NETDRAGON, The Special Allowance Expert in State Council, Co-Dean of Smart Learning Institute of Beijing Normal University, Chair Professor at the College of Education of Harvard University.



Co-Dean Ronghuai HUANG

Co-Dean of Smart Learning Institute of Beijing Normal University, Director of UNESCO International Research and Training Centre for Rural Education, Director of National Engineering Laboratory for Cyberlearning and Intelligent Technology.

## Open Series in Springer

- Lecture Note in Educational Technology  
Series Editors: Huang, R., Kinshuk, Jemni, M., Chen, N.-S., & Spector, J.M.
- Smart Computing and Intelligence  
Series Editors: Huang, R., Kinshuk, & Dede, C.
- New Frontiers of Educational Research  
Series Editors: Zhongying Shi, Ronghuai Huang, Zuoyu Zhou.



## Springer's Journals

- Smart Learning Environment  
(The Official Journal of IASLE)  
Editors: Huang, R., Kinshuk, & Soloway, E.
- Journal of Computing in Education  
(The Official Journal of GCSCE)  
Editors: Huang, R., Hwang, G.-J., Kong, S.-C., & Chen, W.



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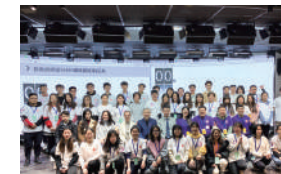
SLI BROCHURE



[HTTP://SLI.BNU.EDU.CN/EN/](http://sl.bnu.edu.cn/en/)

## Design and Learning Laboratory

Study on the features and patterns of design, computational and innovative thinking for youth; Develop courses and books about design methodology, computational thinking and ICT; Build cooperative platform with world-renowned universities, enterprises and institutes for design and innovation.



The 48H Competitive Game of Education Design (2019.01)



Discuss with Prof. Larry Leifer at d.School of Stanford University (2017.04.11)

## Smart City and Learning Environment Laboratory

Study on the typical learning fields in smart cities and learning societies; Create database of smart learning environment; Publish serial reports on learning environment as well as service industry and products of cyberlearning.



Release Conference of White Paper: Smart Learning Environments in China 2015 (2015.09.20)



Index Report of Smart Learning Environments in Chinese Cities



2016 Report of the Cyberlearning Products Development Index in China

## Open Educational Resources (OER) Laboratory

Study on the solution of OER under its impact to the developing countries; Construct the OER community for The Belt & Road countries; Publish reports on the trends of ICT in education.



The Third US-China Smart Education Conference (2018.03)



Series of Horizon Report in China



At a Glance: Education Development in the Belt & Road Countries



Smart Learning and OER International High-end Forum (2017.05.25)

## ICT-based Instruction Center

Explore the methodology of integrating ICT into education with large-scale experiments; Study on the solutions of smart classroom and smart campus; Provide the services for transferring education through the bridge of the theory and practice.



Initial Conference in Experimental Area of Smart Education in Fuquan, Guizhou Province



101 Education PPT Solution

## Educational Robotics Center

Study on the scenarios of robotics in education and the trend of artificial intelligence; Develop the courses for robotic education and STEAM education for K-12 schools. Design educational robotic for various learning fields, such as school, family, etc.



2016 Educational Robotics White Paper: The Global Development



The Next Big Thing: Global Development Status and Trends in Educational Robotics



Prototype of Educational Robotics





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- ▶ Thematic Training on ICT in Education for Presidents in Primary and Middle schools in "Three Districts and Three States"
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## The Annual Review Meeting of SLIBNU in 2018



On January 25th, the Annual Review Meeting of SLIBNU in 2018 was held. Ronghuai Huang, Haijun Zeng, Emil Chen, Yanyan Li, Tingwen Chang attended the meeting and delivered speeches. The department heads reported on the main work of 2018 and the work plan of 2019 respectively.

Dean Huang pointed out that SLIBNU is an institute for school-enterprise cooperation. The advantages of SLIBNU come from both universities and enterprises. Therefore, we must have a rigorous and scientific research style and a pioneering and innovative entrepreneurial spirit. The key word of SLIBNU is open, not only for the subject source and work personnel, but also for the fund sources. We should persist in cultivating five abilities, namely, planning, integration, execution, expression and response. For SLIBNU, 2018 was a year of reform and sedimentation, and in 2019 we will further improve efficiency, make achievements, set clear lists of tasks, determine timetables and match various resources.

The Annual Review Meeting awarded Hui Zhang, Xiaomei Yan, Xiangling Zhang, Adam, Peng Chen, Yang Tian, Jingjing Xu, Wei Zhou, Jihong Li, and Lan Yang with 2018 Annual Academic Achievement Awards, and Yonghe Zheng, Yongzhong Wang, Rongxia Zhuang, Yanli Jiao, Zhicheng Dong, Xiayu Yin, Cuiyu Lv, Yan Li, Tianyi Liu, as well as Shuai Wang with the 2018 Annual Contribution Awards.



Zhiying Nian, Design & Learning Team



Jingjing Jin, Project Incubation



Zhong Ren, Educational Robotic Engineering Team



Tingwen Chang, Dean Assistant



Yongzhong Wang, Ping Li, Hosts of 2018 Annual Review Meeting

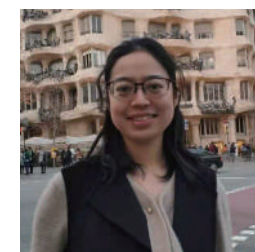


The Small Chorus of Staff

## Winners of 2018 Academic Research Awards



Hui Zhang



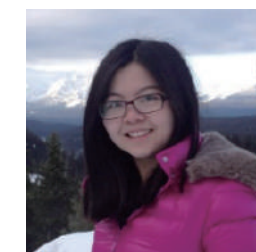
Xiaomei Yan



Xiangling Zhang



Adam



Peng Chen



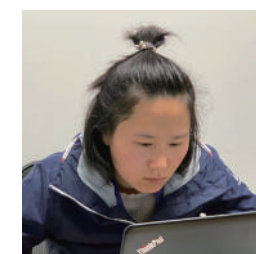
Yang Tian



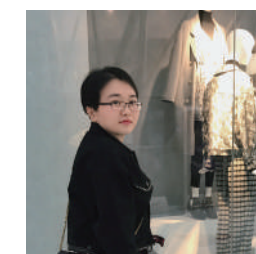
Jingjing Xu



Wei Zhou



JiHong Li



Lan Yang

## Winners of 2018 Annual Contribution Awards



Yonghe Zheng



Yongzhong Wang



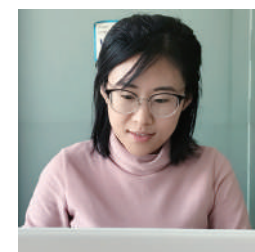
Rongxia Zhuang



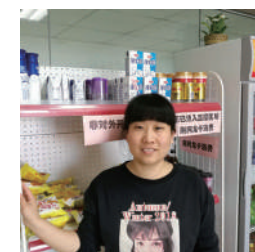
Yanli Jiao



Zhicheng Dong



Xiayu Yin



Cuiyu Lv



Yan Li



Tianyi Liu



Shuai Wang



## The Fourth US-China Smart Education Conference was Held in University of North Texas

### Introduction

During March 18th-20th, the Fourth US-China Smart Education Conference was held in Denton, USA. It was jointly hosted by BNU, University of North Texas (UNT) and National Engineering Laboratory for Cyberlearning Intelligent Technology (NEL4CIT). The conference invited many experts from ministry of education, famous universities and institutes in China and the U.S. The executives and representatives of famous ICT enterprises gave outstanding reports and workshops on various topics like educational service robots, AI, MR, and MOOC. The Annual Conference of International Association for Smart Learning Environment (IASLE), Ed Tech Ascend pitch, the Principal Forum of Industry, University and Research were also held.



The Opening Ceremony

### The Opening Ceremony



Neal J. Smatresk, President of UNT

Neal J. Smatresk, President of UNT introduced the deep relationship between UNT and BNU, and the history of the US-China Smart Education Conference, celebrating the opening of the fourth Conference. He expressed his expectations that experts and scholars from all over the world would actively carry out academic cooperation and exchanges.



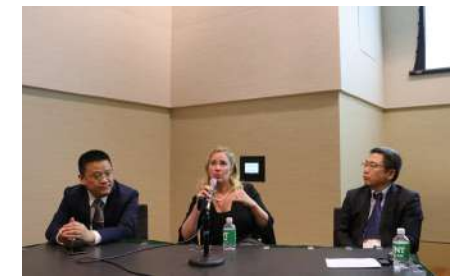
Steve Halliwell, Executive Vice President of Promihughes

Steve Halliwell, Executive Vice President of Promihughes introduced NetDragon's educational application solutions based on digital education, and shared his thoughts on its future development. He pointed out that we should attach great importance to interactive and immersive learning modes and solutions, so as to establish an ecosystem of global digital education.

## “Science Education under the Digital Transformation” Theme Forum



Prof. Yonghe Zheng from Beijing Normal University presided over the forum and gave a keynote report. The educational experts and industry delegates gathered and deeply discussed the influence of IT development on science education. During the roundtable discussion, the experts and scholars discussed the common challenges and problems faced by the science education in the process of digital transformation in China and the U.S.. Ronghuai Huang, Professor of BNU, summarized the forum in the end. He pointed out that in the digital transformation era, we should reflect more on the essence and mechanism of science education, break the boundaries of school and social education, and try to explore an ecosystem of science education that can coordinate with industrial innovation and market demand.



Theme Forum



Guests of the Forum

## “Educational Service Robots Forum”

➤ This forum was presided over by Xiaomei Yan, Doctor of Beijing Normal University. SLI invited many scholars and business delegates from China and the U.S. in the fields of AI and robotics to discuss the application scenarios and role of robots in education, the social ethics of AI and robots, the key technologies and the future development trends of educational service robots.



Guests of the Forum

## “The Impact of Investment Waves and New Technologies on the Education in the U.S. and China” Forum

➤ The forum was hosted by Prof. Junfeng Yang from Hangzhou Normal University, inviting some enterprise representatives from Eternity, Dell Technologies, Micro Language, etc., and professors of Southwest University to report on the heated topics such as investment and financing in the education industry, as well as the impact of new technologies on education.



Emil Chen, Vice President of Eternity



Geping Liu, Professor of Southwest University



Breck Dewitt, Dell Technologies' Chief Technical Officer of Higher Education



Ms. Chunna Zhu, CEO of Micro Language



Chenggang Huang, Director of Strategic Investment of Eternity



Prof. Junfeng Yang, Host of the Forum

## The 2019 Annual Conference of International Association of Smart Learning Environment (IASLE)

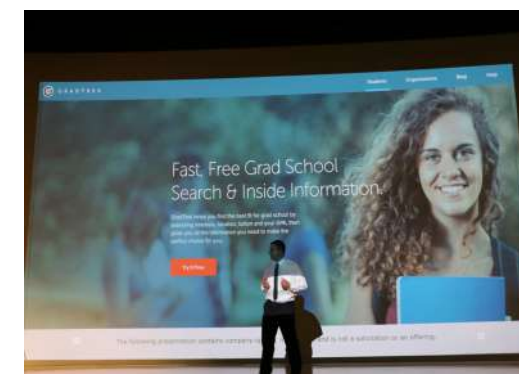
➤ The 2019 Annual Conference of International Association of Smart Learning Environment (IASLE) was held smoothly. The members of IASLE gathered together to share their progress and achievements in the academic field over the past year. They also discussed the future development of IASLE, work plan and arrangement. At this annual conference of IASLE, Prof. Kinshuk was elected as the new chairman, and Prof. Ronghuai Huang and Prof. Nian-shing Chen as the vice-chairman.



Prof. Kinshuk, New Chairman of IASLE

## Ed Tech Ascend pitch

➤ Ed Tech Ascend pitch, sponsored by Edmodo, a global educational online platform owned by NetDragon, was opened successfully. In this "elevator pitch competition", six entrepreneurs and entrepreneurship teams from Ed tech industry presented their products and visions to judges, companies and potential investors within the required time. After the conference, the winners received up to 20,000 US dollars as the initial fund of their entrepreneurial project as well as the opportunities to cooperate with academics and enterprises to bring their products to market in the future.



Ed Tech Ascend pitch



## The Principal Forum of Industry, University and Research



The Principal Forum of Industry, University and Research, hosted by the President of University of North Texas, was a seminar themed on school-enterprise cooperation. Executives and university representatives from the companies in North American gathered to discuss how universities and enterprises can cooperate and exchange better in talent cultivation.



The Principal Forum

## VR Showcase Experience Exhibition



The VR showcase experience exhibition was specially set during the conference, including enterprises such as Edmodo, UBTECH, Micro Language, Di2 STEM, Emsi, Iteach Texas, VIVE, Springboard VR, etc. These enterprises will bring the latest solutions to smart education, creating a sound platform of communication and experience for delegates.



## The Closing Ceremony



At the closing ceremony held at the University of North Texas (UNT), Dr. Peter Balyta, President of the Education Technology Department of Texas Instruments, delivered a report entitled "Design the Future through STEM Education".

Prof. Ronghuai Huang, Director of NEL4CIT and Dean of SLIBNU, introduced the abstract of the report "Transforming Education through Intelligent Technology: A Comparison Report of China and U.S.". This report condenses the collective wisdom of nearly 100 experts in the field of education technology. Meanwhile, Prof. Huang announced the held of the Fifth US-China Smart Education Conference in Beijing, and invited experts around the world to gather together to enjoy this academic feast in Beijing.



Dr. Peter Balyta



Prof. Ronghuai Huang



The Group Photo of Guests at the Closing Ceremony



The Guests were Exchanging and Discussing.



## Smart Learning · Design Education Academic Week

### Introduction

During January 4th to 8th, 2019, Beijing Normal University Smart Learning · Design Education Academic Week, hosted by BNU, organized by the Faculty of Education of BNU, SLIBNU and co-organized by Eternity Education, was successfully held. This academic week aims to break the boundaries of different subjects and promote the integration of science and technology. The exhibition of excellent works in "Design and Learning", the 48-Hour Education Design Competition, the academic salon have attracted teachers and students from more than 10 universities in China.



## The Opening Ceremony and Technology Innovation Education Forum

Mang Li, Vice Minister of the Faculty of Education of BNU and Min Xia, Vice Director of the Teaching Affairs Office of BNU attended the opening ceremony and expressed their sincere support for this event. Yonghe Zheng, Professor of BNU; Su Cai, Associate Professor of the Faculty of Education of BNU and LIM Yang Teck Kenneth, a Research Scientist from the National Institute of Education at Nanyang Technological University in Singapore gave great speeches to guests and the audience. The audience and guests discussed some topics such as the importance of science education in the training of design thinking and innovative talents, and using emerging technologies to promote the reform of science education based on design thinking.



The Opening Ceremony



## The 48-Hour Education Design Competition



The 48-Hour Education Design Competition required students to complete the educational design work of the designated topic within 48 hours. Prof. Jixiao Zhang, President of Beijing Design Society, together with Ronghuai Huang, Dean of SLIBNU, addressed the competition and issued instructor certificates to Zhiying Nian, Dongming Ma, Quan Wen, and Bosen Wang. Having worked day and night for 48 hours, 51 students from more than ten universities across the country designed 11 works on future education as a result of their teamwork. Weizu Song, Associate Chairman of the Beijing Municipal Committee of China Democratic League, the founder of Beijing Design Society and also the chairman of the jury, together with Jun Teng, Vice President of Institute of International and Comparative Education, BNU, as well as Junjie Peng, Senior Design Management Director of Eternity, commented on the projects of each group, providing professional suggestions for improvement from comprehensive aspects like feasibility of practice and continuity.



Ronghuai Huang, Dean of SLIBNU



Weizu Song, Chairman of the Judge's Panel of Competition



Exhibition of the Participants' Projects



The Instructor Group were Judging.



## Academic Salons



Discussing the diversity of the content and form of educational design in the future from the perspective of the art of behavior and the creativity of video and audio.

### Salon One : Exploring the Future Teaching Art from the Perspective of Creative Bodies.

Ping Li, Yuanying Zhao and Wangting Sun, three teachers of Beijing Guochangyuan Dance Team, discussed the future teaching art from the perspective of creative limbs.



Scenes of the Salon

### Salon Two : Smart Learning and the Future Visual Education

Five teachers from China Film Teaching and Audio Research Center of Beijing Film Academy, including Jun Liu, Juan Shen, Zhongzhe Liu, Yike Shi and Jing Hu, started from the aspects of dramatic literary creation, dubbing, performance and video teaching for teenagers, and discussed the creation of scripts and the teaching of scriptwriters, the art and education of lines, the art of dubbing as well as the teaching of voice.



Scenes of the Salon

## Exhibition of “Design and Learning” Works



Students' Learning Achievements in the Design and Learning Course offered by Beijing Normal University were displayed from 4th to 8th, January.



The design works on display in this exhibition are divided into two parts :

The first part of the exhibit was from the project teams participating in the course of "Design and Learning" of BNU in 2018. The participating universities included Beijing Normal University, East China Normal University, Central China Normal University, Shaanxi Normal University, Southwest University, Northwest Normal University, Hangzhou Normal University, Northwest Minzu University and Shenzhen University.

The second part of design achievements was mainly displayed in the form of concept posters, product models and samples, all of which were from the students of design major in China Central Academy of Fine Arts.





## The Closing Ceremony

➤ On January 8th, The Closing Ceremony and Award Presentation Ceremony of 48H Educational Design Promotion Competition was held in Yingdong Academic Hall of BNU. Mingyuan Gu, Senior Professor of Beijing Normal University, Hui Zeng, Deputy Director of Beijing International Design Week Organizing Committee Office, Chairman of NetDragon Websoft Inc., Dejian Liu, Co-Dean of SLIBNU, and Professor Ronghuai Huang, Co-Dean of SLIBNU, delivered speeches on the success of the Academic Week. Binglin Zhong, President of The Chinese Society of Education and Hui Zeng, Vice Director of Beijing International Design Week Organizing Committee Office made keynote speeches. Mingyuan Gu, Vice Director Hui Zeng, Dean Dejian Liu, Shugong Sun and Zhiying Nian provided the awards to the winning team.



Mingyuan Gu



Ronghuai Huang



Dejian Liu



Binglin Zhong



Hui Zeng

## Award List of 48H Educational Design Promotion Competition

Classification	Awards	Team Name	Project Name
Grand Prix		Wahaha	Family Interactive Game Experience Design for Second-child Families
Most Socially Responsible	Gold	The Thickest	"Guarding Secret Gardens": Interesting Activities on Sexual Safety Knowledge Popularization
	Silver	The Nature' s Porters	"Learning while Old" Mobile Learning Application
	Excellence	Yes or No	By Your Side: Parent-child Emotion Communication System Based on Service Design
Most Potentially Applicable	Gold	NNFCP	Fire Prevention Learning Resource Design Based on VR for Primary School
		Wahaha	Family Interactive Game Experience Design for Second-child Families
	Silver	4599	Lorewalkers: the Design for Access to Design of Multi-dimensional Sensory for Future Natural Science Knowledge
	Excellence	Orion	Innovative Design Scheme of Safety Education Based on Experiential Learning Theory
		Bullish Yeah	Inside Visual Learning Platform
		666	Family Education Service Platform
Most Innovative	Gold	BNU Style	Resolution for Heuristic Knowledge Acquisition: Future Robots
		Lala	To See Sound



Dejian Liu Gave Awards to the Winning Teams



Hui Zeng Gave Awards to the Winning Teams



Award Ceremony Spots



## The Second Conference of National Engineering Laboratory Council & The Second Conference of the Technical Committee

On February 22nd, the Second Conference of National Engineering Laboratory Council on Cyberlearning Intelligent Technology and Application and the Second Conference of the Technical Committee were held on Changping Campus of BNU. The guests included Secretary Jianping Cheng, Vice Chairman of the Laboratory Council, Academician Jianping Wu, as well as Experts and representatives from the Tsinghua University, China Mobile and other institutes. It was chaired by Vice President Fanghua Hao, and Li Chen. The meeting reviewed the progress, reported laboratory work and the work plan for 2019, and put forward suggestions and requirements for laboratory construction.



Secretary Jianping Cheng, President of the Council



Academician Jianping Wu, Vice President of the Council



Vice President Fanghua Hao, Board Member



Vice President Li Chen, Board Member



Li Xiong, Deputy Director of Laboratory



Professor Yonghe Zheng, Chief Strategic Officer of Laboratory

## Special Training on ICT in Education for Primary and Secondary School Principals in "Three Districts and Three States" was Held by the Ministry of Education.

From 27th to 29th in March, the second training course on ICT in Education for principals of primary and secondary schools in the "Three Districts and Three States" of the Ministry of Education was held in Xichang City, capital of Liangshan Yi Autonomous Prefecture, Sichuan Province, sponsored by the Science and Technology Department of the Ministry of Education and National Engineering Laboratory for Cyberlearning and Intelligent Technology of BNU. Experts and front-line practitioners from Beijing, Tianjin, Shanghai, Jilin, Sichuan and other places taught students five major themes: school informatization planning, cyber space construction/teaching support tools, information literacy of teachers and students, digital campus and new forms of future education. 119 primary and secondary school principals in 17 counties of Liangshan Prefecture have learned policies, theories and knowledge in the field of ICT in Education through various ways of communication and experience, sharing practical experience and jointly exploring the path of informatization to promote school development. This training was one of the important landing projects of "Network Intellectual Support Project" in "ICT in Education 2.0 Action Plan". It was also another "send trainings to home" activity after the class of Nujiang Prefecture in Yunnan Province in 2018.



Training Spots



Dean Huang Gave Lessons.



Mr. Jixin Wang Gave Lessons.



Ms. Lili Tong Gave Lessons.



## STEM Research Center of Michigan State University



On March 21st, Prof. Ronghuai Huang, Prof. Yonghe Zheng and Prof. Yan Dong of Beijing Normal University visited the CREATE for STEM Research Center of Michigan State University. Prof. Robert Folden, Dean of the College of Education, and Ann Austin, Associate Dean of Research, welcomed the delegations from Beijing Normal University and reviewed the extensive cooperation between Michigan State University and BNU in educational research and the history of academic exchanges. The two sides discussed and conducted in-depth and comprehensive cooperation to jointly promote the development of science education and research in the two countries.



## Workshop on “Everyone can Create -- Innovation and Practice of Information-based Teaching Application”



On March 19th, the Workshop “Everyone Can Create--Innovation and Practice of Information-based Teaching Application” was held at SLIBNU. More than 60 experts from Beijing Normal University, Capital Normal University and so on, together with principals and teachers from Tsinghua Affiliated Middle School, Beijing Middle School, Beijing Fengshi Affiliated Primary School and Shanghai 61 Education Group School participated in the workshop. Focusing on the themes of “promoting the application innovation of teaching and learning”, “improving the information literacy of teachers and students”, “driving the development of students’ creativity”, the workshop was divided into “innovation and practice of information-based teaching application”, “exchange of teaching experience in schools” and “sharing of experts”.



## Leaders and Experts Visited SLIBNU.



Yu Xie, President of Yasn International Visited SLIBNU.  
( 7/1/2019 )



Leaders from Humanities Exchange Center of Ministry of Education Visited SLIBNU. ( 26/2/2019 )



The Headmaster of Beijing Royal School Visited SLIBNU.  
( 27/2/2019 )



Leaders from Wuhou District, Chengdu Visited SLIBNU.  
(1/3/2019 )



Royal Foundation of Thailand Visited SLIBNU.  
( 1/3/2019 )



Leaders from Ningxia Normal University Visited SLIBNU.  
( 13/3/2019 )



## Project Status in 2018

### Trends of SLIBNU's Projects

#### Solutions to Intelligent Language Learning



This project is devoted to exploring new ways of optimizing teacher management, innovation in Education and teaching, and targeted poverty alleviation through education. The project team communicated and discussed the project cooperation and the solution of intelligent language learning laboratory with China Mobile, Micro Language, iFLYTEK Co., Ltd, Dell and Eternity. Project is focused on the five centers of the Intelligent Language Learning Laboratory, investigating and designing the environment layout, laboratory functions, network construction and technical construction.



Project Team Went to China Mobile For Research.

#### White Paper: Smart Learning Environments in China 2019



This project is based on a comprehensive, in-depth and rigorous discussion and analysis of the concept, framework and model of smart learning by authoritative educational experts. The project team have conducted three seminars with the external experts, as well as basic researches from the aspects of national policy, school field, family education, off-campus training institutes and ICT in rural education, and elaborated from current situation, field classification, highlights, trends and international cases.

#### Projects in Experimental Areas/ Schools



The project team has completed the implementation plan and budget approval. we are jointly planning a STEM workshop—Design and Practice of STEM Teaching Project Based on Programming of Swift for IT teachers and science teachers in primary and secondary schools with Apple, which is scheduled to launch in mid-to-late April in SLIBNU.



Project Implementation at Xinghuo Primary School

#### E-learning Platform



E-Learning Project is an international localized online training system designed and produced to overcome the shortage of E-learning certification resources as well as online platforms for K12 and higher education teachers in the above countries and regions, with international teacher assessment standard Provided by BNU. At present, we have completed the pre-approval and begun to deal with the approval.

#### Educational Robots White Paper 2019 : The Global Development



Based on the version of 2016 , Educational Robots White Paper 2019: The Global Development plans to provide a report on academic achievement, current situation and trend as well as educational application in the past three years for academia, education and industry. At present, the first draft of Educational Robots White Paper 2019: The Global Development has been finished.

## Teacher Learning in the Digital Age

We are in an era with highly-reformed technologies and new requirements for talents. The competition in the future is in fact the competition of talents. Therefore, much attention has been attached to the cultivation of the innovation of science and technology. Many countries and regions have tried to accomplish the aim in various ways. One of the means, STEM (science, technology engineering and mathematics) Education, has distinctive characteristics of the era, serving as a carrier for cultivating learners' abilities of exploring, critical thinking, as well as communicating with others.

Chris Dede, the author and organizer of this book, formerly served as Director of the Learning & Teaching Department at Harvard Graduate School of Education (HGSE), and has developed a framework widely used in all American states for scaling up educational innovations, widely respected. His research spans emerging technologies for learning, educational policies, and leadership in educational innovation, and he holds deep and unique understanding of American higher education and information technology.



This book focuses on online professional development in STEM education. In terms of the structure, it includes four parts: Courses, Curriculum Support, Resources and Strategies, as well as Summary and Insight. With vivid examples of STEM education, this book will explain the educational practice in the U.S. based on the new technology, and clearly outline the recent education of the most technologically-developed countries on the earth.

Dejian Liu and Ronghuai Huang  
On August 8th, 2018

**Introduction** Online and Blended Teacher Learning and Professional Development  
Chapter1 Possible Futures for Online Teacher Professional Development

#### Part I COURSES

Chapter 2 Professional Learning with Web-Based Videos: The Talk Science Experience  
Chapter 3 Going to Scale: The MOOCs for Educators Initiative  
Chapter 4 Supporting Deep Change with an Immersive Online Course  
Chapter 5 Online Teacher Professional Development from the American Museum of Natural History

#### Part II CURRICULUM SUPPORT

Chapter 6 Just-in-Time Professional Development: The Active Physics Teacher Community  
Chapter 7 Taking Print to Digital: An Electronic Teacher Guide  
Chapter 8 The Project-Based Inquiry Science Cyberlearning Professional Development System

#### Part III RESOURCES AND STRATEGIES

Chapter 9 Blended Professional Learning for Science Educators: The NSTA Learning Center  
Chapter 10 The Importance of Moderators  
Chapter 11 Making Online and Blended Teacher Professional Development Accessible

#### Part IV SUMMARY INSIGHTS

Chapter 12 Exploring Models of Online Professional Development

**Conclusion: Insights and Next Steps**



## Exclusive Interview



Prof. Kinshuk

Dean of College of Information,  
University of North Texas (UNT),  
Chairman of International  
Association for Smart Learning  
Environment (IASLE)

**Q** The 4th China-US Smart Education Conference has just been held in UNT. You have always supported UCSEC since 2016. Can you talk about your feelings about the UCSEC, especially this time in the United States?

**A** The 4th China-US Smart Education Conference followed the previous three conferences in the series that took place in Beijing. The conference was a great success, particularly because it provided ample opportunities for discussions and exploring collaboration opportunities among participants. As with each previous conference, this year's conference also brought several unique features to the participants. Keynotes from Stephen Attenborough of Virgin Galactic, Steve Halliwell of Promethean and Peter Balyta of Texas Instruments provided a vision of changing landscape of technology impact in education, and how the current learning eco-system is transforming to smart eco-system. The hands-on technology showcase at the conference provide a glimpse of the power of the advance and emerging technologies available to reshape the education as we know it.

The UCSEC 2019 also attracted various international experts from academia and industry, who shared their experiences and vision with the participants. The conference also hosted several panels and forums on topical issues relevant for the current education. It was great to see the views from both US and China perspectives, but also the overarching issues that affect not only these two nations but also the rest of the world.

A particular highlight of the conference was the EdTech Ascend Pitch Competition that enabled the innovators and creators to pitch their ideas and innovations to win awards, and provided them opportunity to connect with academic and corporate partners to get their product to market.

The conference was a hub of the state-of-the-art research, new ideas, visions, and practice showcase that have potential to shake the current beliefs and practices in education and move them towards smart education.

**Q** At the 2019 International Association of Smart Learning Environments annual general meeting, you were elected as the president of the association. Can you talk about your plans for the future development of the association?

**A** I have had pleasure of serving the International Association of Smart Learning Environments for past two years as the Vice President. The aims of the Association have been very clear to me, which is to bring together researchers, practitioners, and policy makers to discuss issues related to the optimization of learning environments to enhance learning. Smart learning is being recognized as an emerging field, and one of the first initiatives has been to bring awareness of the transformation that our current educational environment needs, to wider community. As a president, I see that awareness initiative as an important continuation for the advancement of the Association.

The next step is to create and sustain activities to move the mission of the Association forward. The outcomes of those activities would then be disseminated through the Association's open access Smart Learning Environments journal, published by Springer, for widest possible outreach. It is important to note that the smart learning environments are not simply the technological solutions. They are the ecosystem that focuses on the interplay of pedagogy, technology and their fusion towards the advancement of smart learning environments.

I plan to create activities that take advantage of the wisdom of Association's members to provide opportunities for discussions and constructive dialogue among various stakeholders on the limitations of existing learning environments, need for reform, innovative uses

of emerging pedagogical approaches and technologies, and sharing and promotion of best practices, leading to the evolution, design and implementation of smart learning environments.

**Q** You have cooperated with the SLI to carry out a lot of academic research and achieved fruitful results. Can you talk about your feelings and future expectations for cooperation with SLI?

**A** Smart Learning Institute (SLI) of the Beijing Normal University is a pioneer in smart learning field, and I have had pleasure of cooperating with the leadership team and personnel of SLI on a number of research initiatives. These initiatives have resulted in important discussion documents, high level reports, system implementations and community adoption of those outcomes. I expect the cooperation with SLI to grow further in future and to have greater impact of the collaboration on researchers and practitioners.