

Shengquan Yu

Shengquan Yu is a professor, Director of Advanced Innovation Center for Future Education at Beijing Normal University, Director of the Joint Laboratory for Mobile Learning, Ministry of Education-China Mobile Communications Corporation.



He was selected into the New Century Talent Support Program of the Ministry of Education and the National Talent Project of Millions of Talents, and was awarded the honorary title of "Young and Middle-aged Experts with Outstanding Contributions" by the Ministry of Human Resources and Social Security.

He is the Member of the Smart Education Pilot Demonstration Expert Committee of the Ministry of Education, education consultant of Shenzhen Socialist Pilot Demonstration Zone, expert of the pilot work group of the action of promoting the construction of teachers with artificial intelligence of the Ministry of Education, member of the Academic Committee of China Education Society. He is a fellow of China E-learning Standard Committee, consulting expert of 12th Five-Year Informationization Plan of Chinese Academy of Science, research fellow of China Educational Policy Research Institute, and expert committee member of Ten Year National Educational Technology Plan.

He is the associate editor of *IEEE Transactions on Learning Technologies*. He is also an expert committee member of *Distance Education Journal*, *Information Technology in Elementary and Secondary Education*, and *Information Technology in Education*.

His research interests include Artificial Intelligence in Education, Ubiquitous Learning, Big Data in Education, etc.

Main Contributions:

- He has designed and developed the 4A E-learning platform since 1999, which has been applied by Higher Education Press with more than 100 million learning cards registered.
- He has designed and developed a public service education platform based big data, "Smart Learning Partner", which has been deeply applied in Tongzhou District and Fangshan District of Beijing, realizing the collection of data in the whole Learning process, modeling of knowledge and ability structure, diagnosis and improvement of Learning problems, discovery and enhancement of disciplinary advantages.
- He has proposed a new mechanism for describing and packaging learning resources-Learning Cell, which could support informal learning, ubiquitous learning and the collaborative construction and sharing of learning resources. This innovative mechanism can satisfy users' various needs, such as evolutionary development, the connection and sharing of cognitive network, learning on demand, collaborative editing as well as adaption to environment and users.

- As for promoting the application of information technology in elementary education and integrating information technology into education, he has implemented his teaching reform experiments in more than 400 schools, which has widespread influence on Educational Technology in China.

Publications:

- More than 180 papers in academic journals and conferences: more than 120 of them are indexed by CSSCI; 16+ of them are indexed by SSCI/SCI; Some of those papers have played significant roles in the area of Educational Technology in China.
- Several academic books, such as *Shaping Future Schools with Digital Technology*, *Mobile and Ubiquitous Learning-An International Handbook*, *Integrating Information Technology into Curriculum- Teaching Modes and Methods in the Era of Network*, *Modern Educational Technology and Teachers' Professional Development—New Technologies and Concepts*, and *The Handbook of Instructional Software Design*.
- He holds 10 Chinese patents.

Projects Overview (As PI or co-PI):

He has undertaken more than 50 research projects, representative project including:

- Mobile learning platform development and application demonstration(funded by China Mobile Communication Corporation)
- The research of Learning resources evolution in ubiquitous learning environment(funded by The science and technology development center, ministry of education)
- Research on Resources Organization Models and Key Technologies of Ubiquitous Learning (funded by China National Science Foundation)
- Research on Multi-media System & Evaluation Analysis and Data Mining Tools (funded by Technology Department of Ministry of Education)
- Research on "Internet +" education system (funded by Ministry of Education)
- Research on deep learning in network based classroom(funded by the Beijing Municipal Education Commission)
- Research on future education(funded by the Beijing Municipal Education Commission)
- Designing of Shenzhen Nanshan district education cloud integrated services platform, (funded by Shenzhen Nanshan district education information center)
- The development of mobile learning research in colleges and universities (funded by The science and technology development center, ministry of education)
- The innovation teaching research based on tablet (funded by Intel)
- Mobile cloud classroom teaching exploration research——technical innovation is the future(funded by Beijing Mentougou district education commission)
- The research of deep aggregating subject resource Based on learning cell platform (funded by The Beijing municipal commission of education)
- Haidian smart education development and action planning, (funded by Beijing haidian district government)
- The research of "one to one" learning based tablet(funded by Tianwen media technology (Beijing) co., LTD)
- Regional digital smart education ecological system construction research(funded by Shenzhen Futian district education information center)

- Tablet teaching application and support technology research(funded by NEC)
- Research on Multi-media Courseware Ordering System (funded Technology Department of Ministry of Education)
- Research on Modern Educational Technology Specifications (funded by Technology Department of Ministry of Education)
- Development of National Distance Education Support System & Research on Technology Specifications of Modern Distance Education Resources (funded by National Modern Distance Education Project)
- Design and Application of Foshan & Dongguan & Zhuhai Education MAN (funded by Local government)
- Applied Research of Teaching and Learning System with Hand-held Devices (funded by National Center for Educational Technology)
- Innovative Exploration on Leap-Over Development in Elementary Education in Network Environments (funded by Key Project of National 10th-Five Educational Development Plan)
- Research on Improvements in Teaching Efficiency in 1:1 Network Environments (funded by Key Project of National 11th-Five Educational Development Plan)

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