Introduction of Wuhan University

Wuhan University (WHU), a key comprehensive university directly under the Ministry of Education, is among China's prestigious '985 Project' and '211 Project' institutions, as well as a pioneer in the 'Double First-Class' initiative.

The university's origins trace back to 1893 with the establishment of the Ziqiang Institute by Zhang Zhidong, the then governor of Hubei and Hunan provinces during the late Qing Dynasty (1644-1911). Over time, the institution evolved, adopting its modern identity as Wuhan National University in 1928, making it one of China's earliest comprehensive universities. By 1946, WHU had established a balanced academic framework encompassing the arts, law, sciences, engineering, agriculture, and medicine. A significant milestone came in 2000 when it merged with Wuhan University of Hydraulic and Electric Engineering, Wuhan Technical University of Surveying and Mapping, and Hubei Medical University, marking the beginning of a new era in its distinguished history.

Nestled beside the scenic East Lake and embracing Luojia Mountain, WHU is celebrated as ‘China's most beautiful university’. Its palatial, Sino-Western architectural buildings exude a classic elegance and grandeur, with 26 early structures designated as ‘key cultural relics under national protection’.

Academically, WHU offers a comprehensive array of programs across 13 major disciplines, including philosophy, economics, law, education, literature, history, science, engineering, agriculture, medicine, management, arts, and interdisciplinary studies.

With its remarkable achievements in education and research, WHU has gained widespread international recognition. The university has established partnerships with 341 universities and research institutions across 53 countries and regions, enhancing its global presence and collaboration.

Program information

Program 1: Asian Architectural Culture and Heritage

I. Introduction to the School of Urban Design

Relying on the comprehensive discipline design and profound humanistic heritage of Wuhan University, the School of Urban Design draws on the combined principles of a solid foundation, a wide range of knowledge and high-level skills. It continuously deepens its education and teaching reform, achieving fruitful results in talent cultivation and fostering ‘humanistic, digital, and international’ innovative talents.

II. Introduction to the program

1. Course information

- Time: June 23 -July 6, 2025
- Location: Wuhan University, No. 299, Bayi Road, Wuchang District, Wuhan City, Hubei Province, China
- Languages: English
- Teaching format: face-to-face
- Number of students: 30
- Student categories: Undergraduate students, master's students; no restriction on majors.

2. Faculty team:

- Course leader

Zheng Jing: Associate Professor, Department of Architecture, Wuhan University School of Urban Design

- Course faculty

HO Puay Peng	UNESCO Chair in Heritage Conservation and Management in Asia; Professor, Department of Architecture, National University of Singapore
Montira Horayangura Unakul	UNESCO Commissioner for Cultural Heritage, Asia-Pacific Region; Visiting Professor, University of Hong Kong
Shin Muramatsu	Professor, Department of Architecture, The University of Tokyo
Kengo Hayashi	Associate Professor, Graduate School of Production Technology, University of Tokyo
Johannes WIDODO	Associate Professor, Department of Architecture, National University of Singapore
Cecilia CHU	Associate Professor, School of Architecture, The Chinese University of Hong Kong
Ying ZHOU	Associate Professor, Department of Architecture, The University of Hong Kong
CHEN Yu	Associate Professor, Department of Architecture, National University of Singapore
Imran bin Tajudeen	Associate Professor, Department of Malay Studies, National University of Singapore
TENG XU	Associate Researcher, Department of Architecture, College of Urban Design, Wuhan University, China

3. Program structure

This program combines three major components: lectures, fieldwork, and student presentations with discussions, offering students a comprehensive, multi-level experiential learning journey

- Lectures: Top-notch domestic and international experts and scholars are invited to teach this program. Combining formats such as lectures,

thematic discussions, and case studies, it aims to explore cutting-edge international research on architectural culture and heritage protection.

- Fieldwork: Students will visit the key architectural heritage sites of Wuhan University and the city of Wuhan, and engage students in professional discussions around the visits as well as in communication with experts.
- Student presentations: Students will give presentations on architectural culture or heritage protection topics, sharing personal research or visit experiences.

Program 2: Cultural Heritage and Global Perspectives

I. Introduction to the Cultural Heritage Intelligent Computing Laboratory

Guided by the concept of digital and intelligent empowerment, the Cultural Heritage Intelligent Computing Laboratory at Wuhan University combines the key advantages of the disciplines of information management and surveying, mapping and remote sensing at Wuhan University, integrates the strength of traditional humanities disciplines such as history, literature, and archaeology, and focuses on the needs of digitalizing and intelligently activating cultural heritages such as cultural relics, ruins, and ancient books. The Cultural Heritage Intelligent Computing Laboratory has made breakthroughs in the key technologies for extracting and

reconstructing the connotative spiritual symbols and cultural genes of cultural heritage, developed a series of software tools and system platforms, and established intelligent big data resources for cultural heritage. The Cultural Heritage Intelligent Computing Laboratory is committed to solving the difficult problems in the protection, research, teaching and dissemination of cultural heritage, and providing scientific and feasible solutions.

II. Introduction to the program

1. Course information

- Time: June 30 - July 6, 2025
- Location: Wuhan University, No. 299, Bayi Road, Wuchang District, Wuhan City, Hubei Province, China
- Languages: English or French
- Teaching format: Online + offline
- Number of students: 20 - 30
- Student categories: Undergraduate students, master's degree candidates, doctoral degree candidates
- Majors: Information Management (Cultural Heritage and Digital Humanities)

2. Faculty team:

- Course faculty

Wang Xiaoguang	Dean of the School of Information Management, Wuhan University; Director of the Cultural Heritage Intelligent Computing Laboratory of Wuhan University
Wang Yujue	Director of the Sino - French Digital Culture and Heritage Research Center of Wuhan University; Director of the Sino - French Humanities Exchange Research Center of Wuhan University
Huang Xianfeng	Professor at the State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University
Li Yinghua	Vice Dean of the Yangtze Civilization Archaeology Research Institute, Wuhan University; Professor of the Archaeology Department
Zou Qiushi	Associate Professor at the School of History, Wuhan University

Several foreign experts will also teach on this program.

3. Program structure

This summer school combines basic courses with academic presentations and practical fieldwork to create a comprehensive and multi-level learning and practical experience.

- Basic courses: Include courses such as Digital Humanities, UAV Aerial Survey and Training of Archaeological Sites, UAV Oblique Image Processing and 3D Modeling and Training, 3D Modeling and Training of the Fusion of Laser Point Cloud and Oblique Images of Archaeological Sites, and Close-range Photogrammetry and Training of Movable Cultural Relics, aiming to consolidate students' theoretical foundation.
- Academic presentations: Well-known experts and scholars in the field from both home and abroad will deliver specialized lecturers on themes

such as cultural relic protection at archaeological excavation sites, laser scanning and photogrammetry technology and its application in cultural relic digitalization, high-fidelity 3D digitalization and replication of grotto temple cultural relics, and multi-view 3D reconstruction at archaeological sites, thereby striving to expand students' international perspectives.

- Practical fieldwork: Students will engage in field trips to Wudang Mountain in Hubei, aiming to strengthen their practical abilities and transform theoretical knowledge into practical experience.

Program 3: Tea Culture Meets Ancient Rhyme, Digital Intelligence Empowers New Knowledge: Summer Research Camp on Chibi Yangloudong Dark Tea and Ming-Qing Ancient Architecture Culture

I. Introduction to the School of Remote Sensing Science and Technology

Wuhan University’s Remote Sensing Science and Technology program has been ranked No.1 globally for eight consecutive years (ShanghaiRanking).This ensures a robust foundation for nurturing innovative, socially responsible, and globally competent professionals.

II. Introduction to the program

1. Course information

- Time: June 30 - July 6, 2025

- Location: Yangloudong, Chibi City, Hubei Province, China
- Languages: English
- Teaching format: Onsite
- Number of students: 6
- Student categories: Undergraduate, master’s, and doctoral students from the aforementioned regions/universities with a strong interest in Ming-Qing architecture and tea culture.
- Study Fields: Geomatics, Remote Sensing Science, Architecture (Heritage Conservation)
- Source Countries: USA, UK, France, Australia, Singapore, Hong Kong, etc.
- Source Universities: The Hong Kong Polytechnic University, The University of Hong Kong, The Chinese University of Hong Kong, National University of Singapore

2. Faculty team:

- Course leader:

Chen Jiangping: Associate Professor, School of Remote Sensing and Information Engineering, Wuhan University.

- Course faculty

Gong Yan	Vice Dean of the School of Remote Sensing and Information Engineering, Wuhan University;
Li Yansheng	Vice Dean of the School of Remote Sensing and Information Engineering, Wuhan University.

Gao Zhi	Deputy Director of the Office of International Exchange, Wuhan University, and Professor at the School of Remote Sensing and Information Engineering.
Jia Tao	Vice Professor at the School of Remote Sensing and Information Engineering, Wuhan University.
Yao Yongxiang	Professor at the School of Remote Sensing and Information Engineering, Wuhan University.

3. Program structure

- The program comprises two core components—a featured course and cutting-edge technologies—offering students a multi-level, immersive learning experience.
- Core course: Production Practice (Service Learning),a core course of Wuhan University’s School of Remote Sensing, has been successfully conducted over 20 times since 2014. It combines practice and service to cultivate students’ innovative thinking, problem-solving skills, and global perspectives. Annually, 70+ Hong Kong students collaborate with Wuhan University peers, fostering cross-cultural exchange.

  The course addresses real-world challenges in rural governance and sustainable development through remote sensing data collection, geographic surveys, and fieldwork. By moving classrooms to rural and industrial sites, it bridges academia, industry, and societal needs.

  In 2022, the course was recognized as a Provincial First-Class Undergraduate Social Practice Course; in 2024, it won the China GIS Forum Award for Teaching Excellence. To further enhance its impact,

AI-powered “course agents” now assist students and instructors with NLP-based personalized support.

- Technology Integration: The program combines cutting-edge digital education concepts with technologies such as field surveys, data collection, academic lectures, cultural immersion, and interactive exchanges.

  The camp leverages digital intelligence to integrate near-ground remote sensing, GIS, VR, and AR, enabling immersive and data-driven cultural exploration.

  Participants will virtually experience tea-making processes, explore architectural details through AR scans, and analyze cultural heritage distribution via GIS visualization. Additionally, AI-driven "course agents" enhance learning by providing real-time feedback and personalized guidance.

Program 4: Earth Space Information Science International Summer School

I. Introduction to the State Key Laboratory of Surveying, Mapping, and Remote Sensing Information Engineering (LIESMARS)

The State Key Laboratory of Surveying, Mapping, and Remote Sensing Information Engineering (LIESMARS) at Wuhan University is a globally

recognized leader in geospatial information science. It provides a world-class platform for academic exchange and innovation, fostering the development of cutting-edge technologies and interdisciplinary research.

II. Introduction to the Program

1. Course Information

- Time: July 2 - July 8
- Location: Wuhan University, China
- Languages: English
- Teaching Format: Onsite
- Number of Students: 4
- Student Categories: Undergraduate, master's, and doctoral students with a strong interest in geospatial information science.
- Study Fields: Surveying and Mapping Science and Technology; Remote Sensing Science and Technology; Geography
- Source Countries: USA, UK, Australia, Italy, Russia, Egypt, Turkey, Pakistan, Mongolia, Thailand, etc.
- Source Universities: Michigan Technological University, University of Vienna, University of Venice, University of New South Wales, Technical University of Munich, Moscow State University of Geodesy and Cartography, Burapha University, Quaid-i-Azam University, Sokoine University of Agriculture, Hong Kong Polytechnic University,

Chinese University of Hong Kong, Hong Kong Baptist University, University of Macau, etc.

2. Faculty Team

- Course Leader:

Shao Zhenfeng

- Course Faculty:

Marcello Pelillo	Professor of Computer Science at the University of Venice, Director of the European Centre for Living Technology, and Chair of the CVPR Group. He has held visiting positions at Yale University, McGill University, and other prestigious institutions.
Timo Balz	Full Professor at LIESMARS, Vice Dean of the International School of Geospatial Information Science, and member of the ISPRS Working Group on SAR and Microwave Sensing. He has published over 150 scientific papers and serves as an editor for several top-tier journals.

3. Program Structure

This program combines academic lectures, hands-on training, and cultural exchange to provide students with a comprehensive learning experience.

- Academic Lectures:

The program features two core courses:

Course 1: Artificial Intelligence and Machine Learning (18 hours, 1 credit) . This course covers the fundamentals of AI and machine learning, including neural networks, deep learning models, clustering techniques,

and their real-world applications in computer vision.

Course 2: Introduction to AI-Guided Synthetic Aperture Radar (SAR) Data Science (18 hours, 1 credit) . This course explores the integration of generative AI (e.g., large language models) with SAR data processing to simplify workflows and advance spatiotemporal information science.

- Hands-on Training:

Students will engage in practical sessions, including SAR image processing, interferometry, and data visualization, using tools such as Python and DeepSeek.

- Cultural Exchange:

Participants will experience Chinese culture and the academic atmosphere of Wuhan University, fostering intercultural understanding, global perspectives, and long-term academic collaboration. The program has been successfully held for 12 consecutive years, attracting thousands of applicants worldwide and establishing itself as a premier platform for geospatial information science education.

Application process

I. Benefits for exchange students:

The program is tuition-free (tuition includes the costs of courses, cultural experiences, and visits), and accommodation is provided for free

(single-room accommodation on the campus of Wuhan University is provided).

II. Quota

Each partner institution may nominate up to two students.

III. Nominations from partner institutions:

Please complete the Nomination Form for Luojia Global Summer School (see Excel document attached) to ispteam@whu.edu.cn

Nomination deadline: May 5, 2025

IV. Applications from students:

Students should log in to the 'International Student Service System of Wuhan University' website at http://fses-admin.whu.edu.cn/ and complete the required information.

Application deadline: May 10, 2025

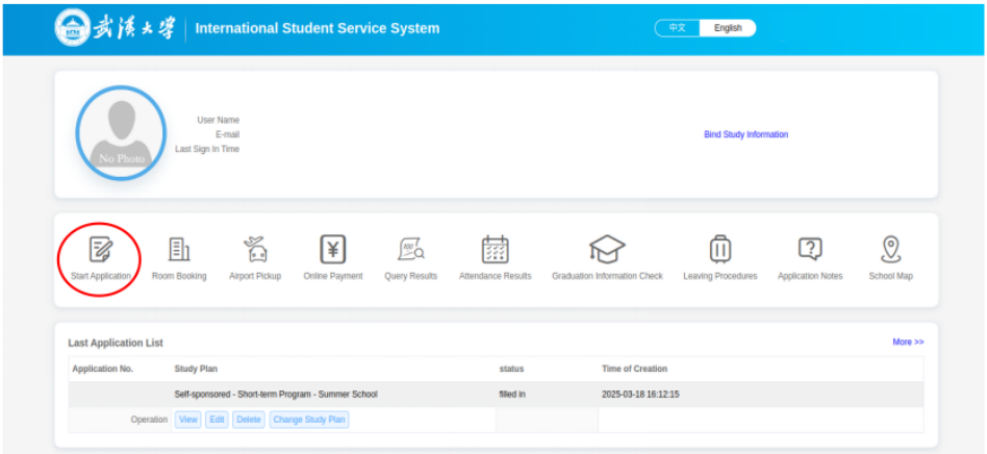
V. Application guide *(The system is only open to non-Chinese nationals.)*

1. Log in to the 'International Student Service System of Wuhan University' website at http://fses-admin.whu.edu.cn/. Register thereafter and then activate your account by clicking the link which is

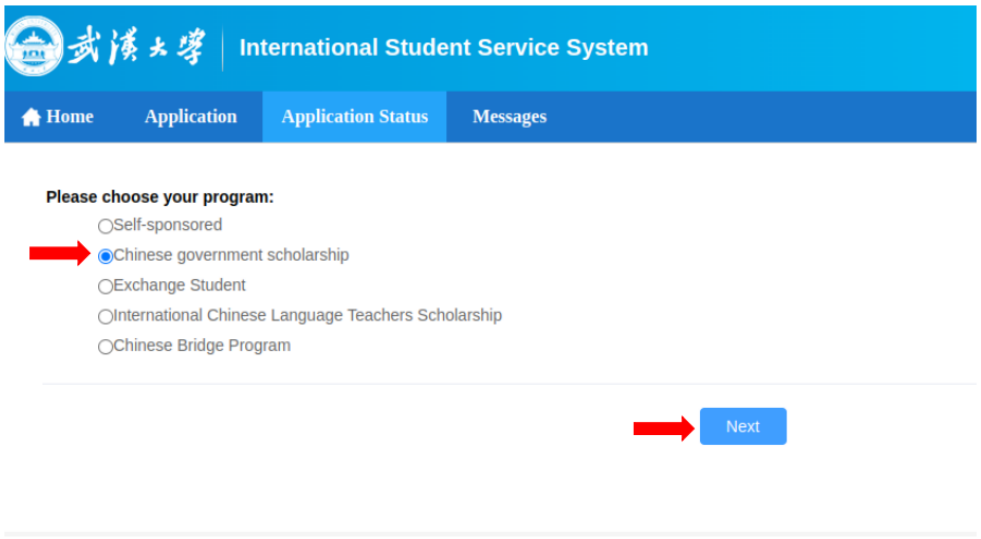
sent to you via the email address left during the initial registration. (Beware that sometimes the verified code email is deposited in Spam.)

2. Log in to the application system using your user name and password.

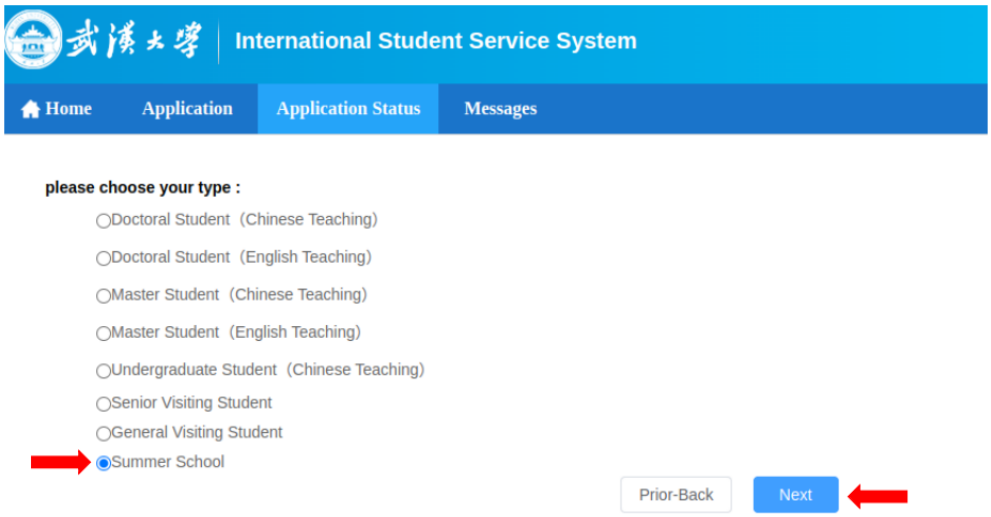
3. Click ‘Start Application”.



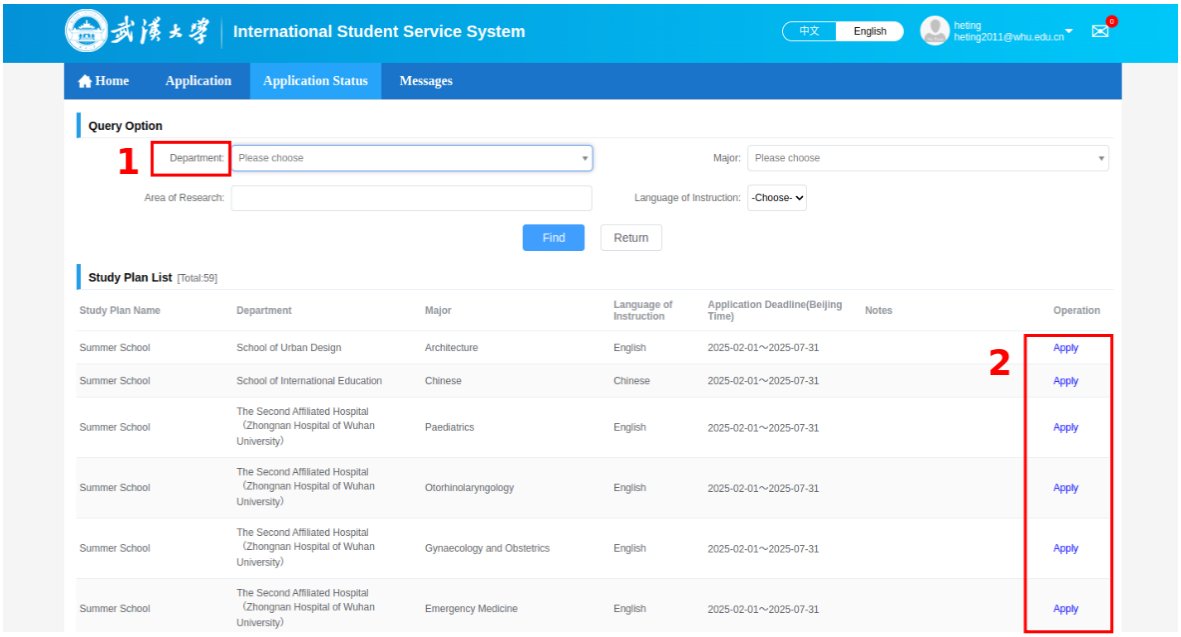
4. Click ‘Chinese Government Scholarship’ and then ‘Next’.



5. Click ‘Summer School’ and then ’Next’.



6. Click ‘Department’ and then select the school or laboratory that undertakes the program （such as School of Urban Design or Cultural Heritage Intelligent Computing Laboratory）from the list. Then select your summer program of choice and click ‘Apply’.



7. Fill in the required information. After previewing, submit your information and complete your application.

VI. NOTICE:

- During registration, the duration of study has been set by system. It will be adjusted by our staff according to program.
- The electronic ADMISSION NOTICE and the notice to download the DQ FORM will be sent to you via the email address you left during registration.
- You can download your DQ FORM here:

  https://www.studyinchina.edu.cn/lxzgywz/525644/525640/index.html

●Remember to bring the electronic Admission Notice as well as your DQ FORM (download on your own according to the instruction via email) to embassy to apply for your visa.