Graduate International Summer School

2019 SJTU

Glance of All Summer School Programs

Contact: iso.gs@sjtu.edu.cn
SJTU began to offer post-graduate education in 1931, and established the Graduate School in 1984. Since then, more than 80,000 Master or Doctor Degrees have been awarded to the graduate students. SJTU has established a complete post-graduate education and degree-awarding system, offering degree programs at both the master & doctorate levels in various disciplines. Currently, there are 28,353 registered postgraduates, including 13,746 full-time master students, 7,782 part-time master students, and 6,274 full-time doctoral students. There is also a team of high qualities, including 42 academicians of Chinese Academy of Sciences or Chinese Academy of Engineering, 60 Thousand Youth Talents professors, 130 Chang Jiang Scholars, 107 winners of the National Science Fund for Distinguished Young Scholars, 11 innovative research groups funded by the National Natural Science Foundation of China, and 21 innovative research teams funded by the Ministry of Education of China.

For more information, please visit: http://en.gs.sjtu.edu.cn.

A Glance of SJTU

Shanghai Jiao Tong University (SJTU), one of the higher education institutions with a long history and a world-renowned reputation in China, is on its way to become a world’s first-class university. As a comprehensive, research-oriented, and internationalized top university, SJTU offers a wide range of degree and non-degree programs to students all over the world, and is looking forward to your joining. Official Website: http://en.sjtu.edu.cn
Shanghai Jiao Tong University began to offer Graduate International Summer School since 2013, which cover a wide range of specialties instructed by faculties from SJTU as well as other world leading institutions. Students can take courses from various specialties, while joining workshops, attending field trips and study tours.

2019 SJTU Graduate International Summer School (ISS) consists of 9 individual programs as below:

**Programs**

**Engineering**
1. "Ocean Dreams"—2019 ISS on Naval Architecture, Ocean Engineering and Mechanics / p4
2. The 4th "Zhi-Hong" ISS on Advanced Materials (ISS-AM)—Advanced Metallic Materials / p6

**Natural Sciences**
3. 2019 ISS on Frontiers of Soft Matter and Amorphous Materials / p8

**Life Sciences**
4. 2019 SJTU-ETH Joint ISS—Interdisciplinary Research on Medical Device / p10
5. 2019 IEEE ISS on Neural Engineering (ISSNE 2019) / p12
6. 2019 ISS on Brain Facts / p14
7. 2019 ISS on Green for Life / p16

**Art & Humanities**
8. The 6th ISS on Cultural Economy: Culture and Urban Regeneration / p18
9. 2019 ISS on East Asian International Relations in Maritime History / p20
10. 2019 ISS on Design—Design Workshop on Future Smart City and Space / p22

Applicants are suggested to check the program website or contact the program manager in advance to know specific application requirements and procedures. Usually, applications of international students should be made through: http://apply.sjtu.edu.cn.

The following materials might be required:

> A scanned copy of the information page of your passport. The passport must be valid for at least 6 months for the visa application.
> ID photo (similar to a passport photo)
> Curriculum vitae
> Language proficiency certificate (if available)
> Motivation letter (if available)

For domestic students or for programs with additional requirements (eg. apply through emails or another online application system), please follow the special requirements of the specific program.

Some programs offer financial support to cover partially the traveling expenses. For detailed information, please visit the website of each program, or contact the program managers.

SJTU Graduate International Summer School will be held mainly on two campuses: Xuhui and Minhang. Students will be arranged in on-campus accommodation or hotels off-campus, according to the program. Some programs will cover the accommodation cost. For details, please check the program homepage.

More information regarding to the accommodation reservation will be available after the students are admitted to SJTU Graduate International Summer School.
“Ocean Dreams”
– 2019 International Summer School on Naval Architecture, Ocean Engineering and Mechanics

Organizer: School of Naval Architecture, Ocean & Civil Engineering
Time: July 15-26, 2019
Venue: Minhang Campus, Shanghai Jiao Tong University

> Program Overview
Naval architecture, ocean engineering and mechanics cover a wide range of knowledge and emphasize on both theory and practice. They involve scientific principles, innovation, imagination together with the fundamentals of mathematics, physics, mechanics, oceanography, etc. New concepts, technologies and methodologies on the subject are constantly emerging. Since 2009, the International Summer School on Naval Architecture, Ocean Engineering and Mechanics has been providing a valuable learning and mutual exchange opportunity for students to broaden their vision and enrich their experiences.

In 2018, more than 100 senior undergraduates and graduates from China, USA, Japan, South Korea, Australia and Iran joined the two-week summer school. Participants attended excellent lectures given by over 30 distinguished experts and scholars from USA, UK, Italy, Norway, Denmark, Japan, Korea and China.

On the basis of the previous experiences, 2019 Summer School will continue to provide a golden opportunity for students to learn about the latest theories and applications on naval architecture, ocean engineering and mechanics through academic and cultural immersion. A wide range of courses in various disciplines will be provided by the world-class professionals and researchers. In addition, local excursions, cultural activities and field trips are also available to the participants from all over the world.

> Activities
Lectures, seminars, posters exhibition, study tour of museums and culture, field trips to research institutions and enterprises, scientific research in the labs under the supervision of professors at SJTU, courses of Chinese culture and Chinese language, etc.

> About Faculty
We will invite professors and lectures to give lectures from various countries, such as, France, USA, UK, Italy, Denmark, Korea, Japan, and other universities in China.

> Eligibility
Graduate students who are interested in the theories and applications of naval architecture, ocean engineering and mechanics. Senior undergraduate students interested in pursuing a master or doctoral degree at SJTU.

> Fees and Scholarship
1. Tuition: waived
2. Scholarship:
   Type A: RMB 4,000 per student (Quantity: 3 students)
   Type B: RMB 2,000 per student (Quantity: 6 students)
   Type C: RMB 1,000 per student (Quantity: 9 students)
3. Accommodation for international students: Double Room RMB 50-60/day; Single Room: RMB 80-110/day.
4. Transportation: The round-trip train fare & international airfare shall be borne by each participant.

> Application Deadline
July 1, 2019

> Agenda (Tentative)

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<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 15</td>
<td>Registration and accommodation check-in</td>
<td>Minhang Campus</td>
</tr>
<tr>
<td>July 16-19</td>
<td>Lectures, seminars and poster presentation</td>
<td>Mulan Building</td>
</tr>
<tr>
<td>July 20</td>
<td>Free activities</td>
<td></td>
</tr>
<tr>
<td>July 21</td>
<td>Outdoor activities, including table tennis, badminton, basketball, soccer, swimming, etc.</td>
<td>Minhang Campus</td>
</tr>
<tr>
<td>July 22-23</td>
<td>Field trips to research institutions and enterprises</td>
<td>Shanghai</td>
</tr>
<tr>
<td>July 24</td>
<td>Chinese culture exploration and experience</td>
<td>Minhang Campus</td>
</tr>
<tr>
<td>July 25</td>
<td>Closing ceremony</td>
<td>Minhang Campus</td>
</tr>
<tr>
<td>July 26</td>
<td>Preparation to depart</td>
<td>Shanghai</td>
</tr>
</tbody>
</table>

Website

Contacts
Ms. Li and Ms. Gao
Email: summerschool2019@163.com
Tel: +86-21-34206200/34206194
The 4th “Zhi-Hong” International Summer School on Advanced Materials (ISS-AM) – Advanced Metallic Materials

Organizer: School of Materials Science and Engineering
Time: July 7-20, 2019
Venue: Minhang Campus, Shanghai Jiao Tong University

Program Overview
The “Zhi-Hong” International Summer School on Advanced Materials (ISS-AM) is organized by School of Materials Science and Engineering (SMSE) at Shanghai Jiao Tong University (SJTU) and aims at promoting the interactive cultural and academic exchanges between top-level scholars and students from all over the world. The ISS-AM is named as “Zhi-Hong” not only to commemorate the school founder Professor Zhihong Zhou, but also to inspire the summer school participants since “Zhi-Hong” in Chinese means “being ambitious”.

This year, the theme of the two-week program is “Advanced Metallic Materials”. In the last three years, the 1st to 3rd “Zhi-Hong” ISS-AM with the theme of “Advanced Metallic Materials”, “Advanced Functional Materials” and “Advanced Materials Processing” were organized successfully. Many renowned experts and scholars from our school and foreign institutes, e.g. Northwestern University, The Ohio State University, Osaka University, National Institute for Materials Science in Japan, Monash University, Federal University of Sao Carlos, have been invited to give academic lectures.

Highlights
The “Zhi-Hong” ISS-AM will offer lectures and professional practice in all areas of Advanced Metallic Materials and organize student seminars, visits to research laboratories, culture festival, field trips and culture tours in Shanghai. The “Zhi-Hong” ISS-AM is also a platform provided for undergraduate and graduate students from all over the world to exchange ideas and build friendships. A “Zhi-Hong” ISS-AM Certificate of Accomplishment will be issued to the participant upon completion of the program.

Eligibility
Graduate and undergraduate students who major in Materials Science and Engineering (MSE), or any other majors related to MSE, such as mechanical engineering, physics, and chemical engineering. A total of 60 domestic and overseas participants will be recruited.

Activities
1) Lectures
2) Field trips
3) Student seminars
4) Culture festival
5) Culture tours

Program Agenda (Tentative)

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<tr>
<th>Day</th>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7-Jul, Sun</td>
<td>Arrival, Registration</td>
</tr>
<tr>
<td>2</td>
<td>8-Jul, Mon</td>
<td>Opening Ceremony, Team-up, Ice-breaking, Campus Tour, etc.</td>
</tr>
<tr>
<td>3</td>
<td>9-Jul, Tue</td>
<td>Lectures</td>
</tr>
<tr>
<td>4</td>
<td>10-Jul, Wed</td>
<td>Lectures</td>
</tr>
<tr>
<td>5</td>
<td>11-Jul, Thu</td>
<td>Lectures</td>
</tr>
<tr>
<td>6</td>
<td>12-Jul, Fri</td>
<td>Company Visit</td>
</tr>
<tr>
<td>7</td>
<td>13-Jul, Sat</td>
<td>Culture Tour</td>
</tr>
<tr>
<td>8</td>
<td>14-Jul, Sun</td>
<td>Free time</td>
</tr>
<tr>
<td>9</td>
<td>15-Jul, Mon</td>
<td>Lectures</td>
</tr>
<tr>
<td>10</td>
<td>16-Jul, Tue</td>
<td>Lectures</td>
</tr>
<tr>
<td>11</td>
<td>17-Jul, Wed</td>
<td>Lectures, Cultural Festival</td>
</tr>
<tr>
<td>12</td>
<td>18-Jul, Thu</td>
<td>Company Visit</td>
</tr>
<tr>
<td>13</td>
<td>19-Jul, Fri</td>
<td>Group Presentation, Awards &amp; Closing Ceremony</td>
</tr>
<tr>
<td>14</td>
<td>20-Jul, Sat</td>
<td>Departure</td>
</tr>
</tbody>
</table>

Website

Contacts
Coordinator: Weihui XIE
Email: zh.isam@sjtu.edu.cn
Tel: +86-21-54747664
Address: Room 4005, Xuzuyao Building, School of Materials Science and Engineering, Shanghai Jiao Tong University, 800 Dongchuan Road, 200240, Shanghai

Fees
Tuition: 3000 RMB
Others costs: meals (~50 RMB/day) and transportation.
The summer school will cover the costs of lecture materials, lodging (in SJTU student dormitory), and transportation for group activities.

Scholarships
Type A: “Zhi-Hong Future” Scholarships (covers tuition fee and part of the international travel costs up to 5000 RMB/person)
Type B: “Zhi-Hong Excellence” Scholarship (covers tuition fee)

Application Deadline
April 15, 2019
2019 International Graduate Summer School on Frontiers of Soft Matter and Amorphous Materials

Organizer: School of Physics and Astronomy, Institute of Natural Sciences
Time: July 1-11, 2019
Venue: Minhang Campus, Shanghai Jiao Tong University

> Program Overview

Soft matter and amorphous materials have a wide and important application background in physics, mechanics, biology, engineering, geophysics and other fields. Their related theory is very challenging and the study of such materials form one of the most important fields in the current research of the condensed matter and material science. In recent decades, with the development of new theories and the progress of science and technology, many new research areas have emerged in soft matter and amorphous materials. We plan to organize a summer school from July 1 to July 11, 2019, which covers the basic theories, latest achievements and hot topics in soft matter and amorphous materials. The main topics are divided into two parts. One for glass formation and glass transition (Courses 1-5), and another for granular materials (Courses 6-10).

The School of Physics and Astronomy, SJTU, established in 2013, is a continuation of the old name “Department of Physics”. In the past ten years, the School has relied on the support of the national and local administration policies to recruit talents, and hence the School has achieved monumental development. In recent five years, the School has acquired multiple excellent achievements in frontiers research fields of particle and nuclear physics, condensed matter physics, laser and plasma physics, atomic and molecular physics, optics, and soft condensed matter physics, as well as astronomy and astrophysics.

Institute of Natural Sciences (INS), SJTU, is an interdisciplinary center for creative research which aims at breaking down the traditional confines of individual disciplines, and becoming an intellectual center for world-class interdisciplinary studies. The INS faculty consists of internationally-established scientists as well as distinguished young research fellows, and with specialties in fields ranging from Applied Mathematics, Physics, Computer Sciences, to Engineering, Biology and Life Sciences.

> Course Contents and Practical Activities

This summer school includes ten mini-courses in the field of soft matter and amorphous materials and workshop about some recent advances from July 1-11, 2019. We will spend 6-8 hours for teaching and discussion every day. We plan to invite 10 internationally established experts from Japan, Germany, France, Britain and the United States to give 10 short courses.

> Lecturers (Tentative)

The summer school has received full attention and support from SJTU, Graduate School and School of Physics and Astronomy. The steering committee consists of Professor Shi Jin (Director of Institute of Natural Science, SJTU and Director of Key Laboratory of scientific engineering computing, Ministry of Education), Professor Yipeng Jing (Director of School of Physics and Astronomy, SJTU), Professor Weike Wang (Director of Institute of Natural Science, SJTU). The organization committee consists of Professor, Liang Hong, Yjie Wang, Heng Xu, Zhenwei Yao, Hepeng Zhang and Jie Zhang.

We plan to invite 10 well-known experts from Japan, Germany, France, Britain and the United States to open 10 short courses:

- Glass transition and geometrical frustration (Giles Tarjus, University Paris VI, France);
- Marginal solids (Michael Cates, Cambridge University, Lucasian Professor, Member of the Royal Academy of Sciences of Great Britain);
- Acoustic measurement in granular materials (Xiao-Ping Jia, Langen Institute, France);
- Numerical simulations in granular materials (Daan Frenkel, Cambridge University, UK, Member of UK National Academy of Sciences, Member of US National Academy of Sciences);
- Marginal solids (Michael Cates, Cambridge University, Lucasian Professor, Member of the Royal Academy of Sciences of Great Britain);
- Mean field theories of spin glasses and hard-sphere glasses (Giorgio Parisi, University of Rome, Italy, President of National Academy of Sciences of Italy);
- Dynamical heterogeneities (Peter Harrowell, University of Sydney, Australia);
- The plastic deformation of glassy materials (Jean-Louis Barrat, University of Grenoble, France);
- The study of earthquake (Paul Johnson, Los Alamos National Laboratory, US, Laboratory Fellow);
- The friction of granular materials (Mark Robbins, Johns Hopkins University, US, Fellow of AAAS);
- Acoustic measurement in granular materials (Xiao-Ping Jia, Langen Institute, France);
- Numerical simulations in granular materials (Daan Frenkel, Cambridge University, UK, Member of UK National Academy of Sciences, Member of US National Academy of Sciences).

> Application Deadline

The deadline for registration is May 31, 2019 and there is no registration fee. For qualified applicants, the summer school will cover their on campus lodging in dormitory rooms and residences. Preference is given to, but not limited to, graduate students and young researchers with a basic understanding of soft matter and amorphous materials. International students please apply at http://apply.sjtu.edu.cn/ Domestic students please apply at https://jinshuju.net/f/b-KneGA
2019 SJTU-ETH Joint International Summer School
– Interdisciplinary Research on Medical Device

Program Overview
Since 2016, the School of Biomedical Engineering at SJTU and ETH have launched summer school of biomedical engineering for three years involving more than 20 professors and 100 students from both universities. Every year we provide students with various opportunities of projects, scientific research, hospital visits and cultural activities. The 2019 summer school will be held at SJTU.

Eligibility
SJTU and ETH enrolled students, and graduate students all over the world.

Scholarship
The School of Biomedical Engineering at SJTU will provide a certain number of scholarships, which will cover a part of the travel expenses. To apply for the scholarship, please contact Ms. Hanqun Wang at hanqun.w@sjtu.edu.cn.

Application Deadline
May 31, 2019

Website
http://bme.sjtu.edu.cn/En

Contacts
Ms. Hanqun WANG
hanqun.w@sjtu.edu.cn

Agenda

<table>
<thead>
<tr>
<th>Dates</th>
<th>Activity</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day 1</td>
<td>Registration</td>
<td>Med-X Room 212</td>
<td>Till 17:00pm</td>
</tr>
<tr>
<td>Day 1 10:00-16:30</td>
<td>Lectures on Biomedical Engineering</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>Day 1 17:00-18:00</td>
<td>Kicking Off Ceremony</td>
<td>Med-X Room 218</td>
<td>1.Project and Program Briefing 2.Meeting with Project Supervisors</td>
</tr>
<tr>
<td>Day 1 18:00-19:00</td>
<td>Welcome Reception</td>
<td>Med-X Room 218</td>
<td></td>
</tr>
<tr>
<td>Day 2</td>
<td>Project Work in Lab under Supervision</td>
<td>With each lab</td>
<td>Each Project should submit an agenda of their own</td>
</tr>
<tr>
<td>Day 3</td>
<td>Field Trip to United Imaging</td>
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<tr>
<td>Day 4</td>
<td>Workshop Day</td>
<td></td>
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<tr>
<td>Morning</td>
<td>Invited Talks (4-6 in total)</td>
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<tr>
<td>Lunch (11:30-13:00)</td>
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<td></td>
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<tr>
<td>Afternoon</td>
<td>Project Presentations</td>
<td>40’ PPT + 20min Q/A for Each Project</td>
<td></td>
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<tr>
<td>13:00-15:00</td>
<td>Projects on Biomedical Engineering</td>
<td></td>
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<tr>
<td>15:00-15:30</td>
<td>Tea Break</td>
<td></td>
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<tr>
<td>15:30-16:30</td>
<td>Projects on Biomedical Engineering</td>
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<tr>
<td>Day 5</td>
<td>Chinese Culture Tour &amp; Award &amp; Farewell Ceremony</td>
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</table>
2019 IEEE International Summer School on Neural Engineering (ISSNE 2019)

Organizer: School of Biomedical Engineering
Time: August, 2019
Venue: Xuhui Campus, Shanghai Jiao Tong University

Program Overview

Echoing the booming techniques and applications in neural engineering, we propose to organize an international summer school on neural engineering (ISSNE) in Shanghai, China, sponsored by IEEE EMBS and hosted by Shanghai EMBS chapter. IEEE ISSNE summer school was founded in 2013 in Shanghai and was hosted biennially. The program will be held each summer since 2017, in coordination with other summer schools sponsored by EMBS, e.g. international summer school on medical devices and biosensors, international summer school on biomedical imaging, international summer school on biomedical signal processing, and international summer school on bio-complexity.

The ISSNE will use the unique platforms as its teaching support, i.e. the huge clinical hospital system of Shanghai Jiao Tong University. With 12 top-ranked affiliated general and specialized hospitals, and the largest outpatient number and hospital admission number in China, SJTU has its uniqueness in bench-to-bed clinic-driven research and teaching. Students in ISSNE will have face-to-face meeting and discussions with the experts from the departments of neurology, radiology and neuroimaging centers, and get the opportunities of onsite training on translational neural engineering in these affiliated divisions.

Sponsors:
IEEE Engineering in Medicine and Biology Society
IEEE EMBS Shanghai Chapter
Shanghai Jiao Tong University
National Natural Science Foundation of China

Faculty/Invited Speakers: TBD

Program (Draft)

A draft schedules are listed in the table below; the order of the lectures and seminars may be subjected to change according to the faculties’ itinerary schedule.

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<tr>
<th>Day</th>
<th>Registration, Opening, Reception</th>
<th>Lecturer/Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures Day 1</td>
<td>L1: Brain Computer Interface</td>
<td>TBD</td>
</tr>
<tr>
<td>Day 1</td>
<td>L2: Neuroimaging and source localization: Principles, Applications and Advances</td>
<td>TBD</td>
</tr>
<tr>
<td>Day 1</td>
<td>L3: Optical Neurovascular Imaging, Principles and Applications</td>
<td>TBD</td>
</tr>
<tr>
<td>Day 1</td>
<td>L4: Physiology for Visual Prosthetics</td>
<td>TBD</td>
</tr>
<tr>
<td>Posters/Social Day 2</td>
<td>Poster Presentations</td>
<td>TBD</td>
</tr>
<tr>
<td>Happy Hour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seminars Day 2</td>
<td>S1: functional connectivity in mental disorders</td>
<td>TBD</td>
</tr>
<tr>
<td>Day 2</td>
<td>S2: High-Resolution LSI</td>
<td>TBD</td>
</tr>
<tr>
<td>Day 2</td>
<td>S3: DTI in Depression</td>
<td>TBD</td>
</tr>
<tr>
<td>Day 3</td>
<td>S4: Translational Neuroimaging</td>
<td>TBD</td>
</tr>
<tr>
<td>Day 3</td>
<td>S5: Neuromodulation for epilepsy: From in-vitro experiments to the clinic</td>
<td>TBD</td>
</tr>
<tr>
<td>Day 4</td>
<td>S6: Neural Modeling</td>
<td>TBD</td>
</tr>
<tr>
<td>Day 4</td>
<td>S7: Peripheral Never Interface</td>
<td>TBD</td>
</tr>
<tr>
<td>Day 4</td>
<td>S8: dexterous prosthetic hand</td>
<td>TBD</td>
</tr>
<tr>
<td>Social Activity Day 3</td>
<td>Happy Hour</td>
<td>TBD</td>
</tr>
<tr>
<td>Day 4</td>
<td>Acrobatics Show (Shanghai Era Entertainment)</td>
<td>TBD</td>
</tr>
<tr>
<td>Lab Visits Day 5</td>
<td>V1: Philips East Asia Research Center</td>
<td>TBD</td>
</tr>
<tr>
<td>Day 5</td>
<td>V1: Shanghai Synchrotron</td>
<td>TBD</td>
</tr>
<tr>
<td>Day 5</td>
<td>V3: Yangguang Rehab Center</td>
<td>TBD</td>
</tr>
<tr>
<td>Day 5</td>
<td>V4. Micro-PET/CT Imaging Center at SJTU</td>
<td>TBD</td>
</tr>
<tr>
<td>Fairwell Dinner Day 5</td>
<td>Farewell Dinner</td>
<td>TBD</td>
</tr>
<tr>
<td>Poster Award Announcement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Close Day 6</td>
<td>Sightseeing</td>
<td>TBD</td>
</tr>
</tbody>
</table>

Application Deadline
May 31, 2019

Website
http://bme.sjtu.edu.cn/En

Contacts
Ms. Hanqun WANG
hanqun.w@sjtu.edu.cn
2019 International Summer School on Brain Facts

Organizer: Bio-X Institutes
Time: July 1-19, 2019
Venue: Minhang Campus, Shanghai Jiao Tong University

> Program Overview
The Complex and amazing brain entitles human beings to be the wisest creature on earth. In the 21st century, the rapid development of human civilization and technology, especially biomedicine, not only make us healthier and longevous, but also help us pay more attention to functions and health of our mind.

Ever since 2013 when our Institutes first launched the English course called Brain Facts, we have invited a series of world’s leading scientists two years in a row to give students lessons. This year, our Institutes will continually hold the 2019 International Summer School on Brain Facts. We warmly welcome undergraduates, postgraduates and research fellows who are interested in this field to come and join this grand gathering.

2019 International Summer School on Brain Facts will be taught by the world’s leading scientists in their respective field. By organizing courses, lectures, seminars, workshop, field trips and study tours, summer school will dig in the mystery of brain and mental health, one of the most attractive issues for modern human beings. Students or postdoctoral fellows who are interested in doing cutting age experiments in the labs are also welcomed, because Course B will help enhance your practice skills and combine theoretical knowledges with practices. Besides, activities and sightseeing will be arranged to facilitate the participants to immerse themselves in English and Chinese culture and life.

2019 International Summer School on Brain Facts provides a valuable opportunity for the students to expand their horizons and deepen their understanding of mental health and neuroscience. All activities held during this summer school aim at providing a good platform for the participants to know the current trends of the subjects, facilitating cultural and academic exchanges among students and presenting a beautiful Shanghai and China to all our guests.

> Application Deadline
May 31, 2019.

> Course Contents and Practical Activities
Course A: 2 weeks
Course B: 1 week
The courses include lectures, seminars, lab workshop, field trips to research institutions and enterprises. Students can have access to our labs to conduct experiments under the supervision of Chinese professors of SJTU and submit an experiment report. In the end, summer school will issue a certificate to qualified participants.

> Eligibility
Undergraduates, postgraduates, postdoc and research fellows in related fields.

> About Faculty
Dr. Guoli Ming, Professor of University of Pennsylvania, USA
Dr. Hongjun Song, Professor of University of Pennsylvania, USA
Dr. Sanbing Shen, Professor of National University of Ireland, Ireland
Dr. Tatsuo Suzuki, Professor of Shinshu University, Japan
Dr. Katsuhiko Tabuchi, Professor of Shinshu University, Japan
Dr. Evgeniya Kirichenko, Associate Professor of Southern Federal University, Russia
Dr. Weidong Li, Professor of Shanghai Jiao Tong University, China

> Fees
Participants shall bear their travel, transportation and lodging expenses incurred during this summer school.

> Scholarship
We select 2-4 scholarship holders and cover their flight, accommodation and catering, etc.

> Schedule for 2019 SJTU Brain Facts International Summer School

<table>
<thead>
<tr>
<th>Time</th>
<th>Venue</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 1, 2019</td>
<td>Shanghai Jiao Tong University</td>
<td>2019 International Summer School on Brain Facts Opening Ceremony</td>
</tr>
<tr>
<td>July 1-11 Monday-Friday Morning</td>
<td>Shanghai Jiao Tong University</td>
<td>Courses &amp; Lectures</td>
</tr>
<tr>
<td>July 1-12 Monday-Friday Afternoon</td>
<td>Institutions Hospitals Enterprise</td>
<td>Field Trips</td>
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<tr>
<td>July 12 Morning</td>
<td>Shanghai Jiao Tong University</td>
<td>Closing Ceremony for Course Part</td>
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<tr>
<td>July 6-7</td>
<td>Shanghai and Cities around</td>
<td>Discovery of Chinese Culture</td>
</tr>
<tr>
<td>July 13-14</td>
<td>Shanghai Jiao Tong University</td>
<td>Lab Workshop</td>
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<tr>
<td>July 15-19</td>
<td>Shanghai Jiao Tong University</td>
<td>Closing Ceremony for Lab Part</td>
</tr>
</tbody>
</table>

Website
http://www.bio-x.cn/ (will be updated)

Contacts
Yuze WU wuyz607@sjtu.edu.cn +86-021-34207976
2019 International Graduate Summer School on Green for Life

Organizer: China-UK Low Carbon College
Time: July 1-11, 2019
Venue: China-UK Low Carbon College (LCC), Lingang Campus, Shanghai Jiao Tong University

Program Overview
The 2019 International Graduate Summer School — Green for Life will be organized and hosted by China-UK Low Carbon College, Shanghai Jiao Tong University. Focusing on the frontier lectures, seminars, enterprises visits and study tour in low carbon area, the International Graduate Summer School aims at facilitating academic communication, enhancing scientific research abilities, encouraging innovation and motivating achievements.

Highlights
For 2019, by introducing a brand new module — study tour, the International Graduate Summer School of China-UK Low Carbon College will be divided into four parts. In the frontier lectures, we will concentrate on the topics such as carbon accounting, carbon finance, sustainable energy, energy saving and emission reduction, the utilization of carbon resources and so on. In the seminars, students will be encouraged to team up according to their interests, have discussions and make preliminary research plans. Every team is supposed to make a report and receive the comments from experts. During enterprise visits, students will conduct investigations that related to low carbon area on the spot. Finally, the participants (especially for the international students) will take a study tour to experience in person the practice of low carbon idea as well as local culture.

About LCC
China-UK Low Carbon College, established by Shanghai Jiao Tong University together with its UK counterparts such as the University of Edinburgh, is one of the joint institutes under Shanghai Jiao Tong University. Strongly supported by Shanghai Lingang Area Development Administration, China-UK Low Carbon College is a pilot program as regards international collaborative education in carbon resources management. Customized open courses and curriculum in carbon finance, carbon management and circular economy will be delivered with forward-looking contents and appropriate flexibility in LCC, accommodating diversified learning needs of people in different areas and at different levels from institutions and entities that related to low-carbon area, so as to cultivate much more professional and creative experts, businessmen and executives in the field.

About Faculty
We plan to invite five senior professors from the University of Edinburgh, five experienced professors in the field of environment and energy from Shanghai Jiao Tong University (the participants are as follows) and three experts in low carbon industry.

Application Deadline
May 1st, 2019

Eligibility
The program is open to post-graduate students from all over the world.
The 6th International Summer School on Cultural Economy: Culture and Urban Regeneration

Organizer: School of Media and Communication
Time: July 1-13, 2019
Venue: Xuhui Campus, Shanghai Jiao Tong University

> Program Overview

Cultural Economy International Summer School is a creative graduate education project cop-organized by School of Media and Communication, Shanghai Jiao Tong University and Monash University. It aims at upgrading graduate teaching and training quality, enhancing students’ academic know-how and research competence, promoting international collaboration among students and faculties, and expanding international vision of postgraduate programs.

First launched in 2014, the international summer school has a different theme each year, this year being Culture and Urban Regeneration. Our core focus is the cities which are advancing to better being Culture and Urban Regeneration. Our core focus is the cities which are advancing to better being Culture and Urban Regeneration. Our core focus is the cities which are advancing to better being Culture and Urban Regeneration. Our core focus is the cities which are advancing to better being Culture and Urban Regeneration. Our core focus is the cities which are advancing to better being Culture and Urban Regeneration. Our core focus is the cities which are advancing to better being Culture and Urban Regeneration.

The students will speak to local policy makers and experts about the issues above, as well as visit cultural sites related. Alongside a comprehensive program of lectures we will host presentations from local cultural sector and arrange field trips under guidance and field work under supervision in the cultural economy of Shanghai.

> About SMC, SJTU

The School of Media and Communication (SMC), Shanghai Jiao Tong University, was founded in September 2002. A series of undergraduate, master, and doctoral programs are provided in these fields. The school boasts solid foundation in theoretical research, high competitiveness in professional skills and distinctive features in discipline development, making it one of the top media and communication schools in China.

> About Faculty

Justin O’Connor (University of South Australia, Australia)
GU Xin (Monash University, Australia)
Mark Andrejevic (Monash University, USA)
Kari Kallioniemi (University of Turku, Finland)
SHAN Shilian (Shanghai Jiao Tong University, China)
Li Kanghua (Shanghai Jiao Tong University, China)
WEN Yuan (Shanghai Jiao Tong University, China)

> Eligibility

This summer school is open to the master and doctoral students in Cultural Economy or other related majors. We will take in 35-40 students, including Chinese students and overseas students.

> Fees

Tuition: Waived
Travel and accommodations: Participants are expected to arrange their own travel and hotel accommodations.

> Activities

AM 9:00; PM 1:30 (site visits starting time may vary.)

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<thead>
<tr>
<th>Schedule</th>
<th>Date</th>
<th>Syllabus</th>
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<tbody>
<tr>
<td>1 1st July</td>
<td>Mon</td>
<td>AM Welcome and Introduction: Cultural Economy, Cultural Policy and Creative City&lt;br&gt;PM Site visits: Shanghai Urban Planning Exhibition Centre, The Bund, the Bundbank, old town</td>
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<tr>
<td>2 2nd July</td>
<td>Tue</td>
<td>AM GU Xin, Justin O'Connor&lt;br&gt;PM Site visits: Long Museum (Pudong), M50 creative cluster&lt;br&gt;Tianzifang</td>
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<td>3 3rd July</td>
<td>Wed</td>
<td>AM Creative entrepreneur and the activation of urban spaces&lt;br&gt;PM Work</td>
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<td>4 4th July</td>
<td>Thur</td>
<td>AM Kari Kallioniemi, Justin O'Connor&lt;br&gt;PM Basement 6: Basement 6 is an art and music collective that houses Uptown Records and hosts shows, ALL – music venue (previously known as ‘Shelter’)&lt;br&gt;Workshop with HH (Band ‘Duck Fight Goose’ 鸭打鹅) and Gaz (Manager at ALL)</td>
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> Application

Overseas students: Complete and submit an online application at Study@SJTU (https://apply.sjtu.edu.cn).
Local students: Fill the application form and send it to ywen@sjtu.edu.cn.

> Application Deadline

April 30, 2019
2019 International Summer School on East Asian International Relations in Maritime History

Organizer: Department of History, School of Humanities
Time: July 1-10, 2019
Venue: Minhang Campus, Shanghai Jiao Tong University

Program Overview
We will introduce and discuss research topics and materials of trade, immigration, technology and dispute in East Asian Seas with cross-disciplinary perspectives, in order to understand the difference between East and West, and the change of the world system in the modern history.

The summer school is willing to develop more international academic connection on East Asian Relations and Maritime History. Also, it is willing to train and develop critical thoughts and new methodology on the research of new archives.

Department of History was built in 2003. Archives collection, major national strategy and cross disciplines are its core development patterns. The department mainly focus on 5 research areas including local archives, the Tokyo War-crime trials, environment history and history of diseases and modern Chinese history. There is also a history GIS team working on a HGIS project.

About Faculty
Takeshi Hamashita, Professor, History Department, Sun yat-sen University
Shin Kawashima, Professor, Graduate School of Arts and Science, University of Tokyo
Tomoko Shiroyama, Professor, Graduate School of Economy, University of Tokyo
Robert Bickers, Professor, History Department, University of Bristol
Chihua Tang, Professor, History Department, Tong Hai University
Philipa Thai, Assistant Professor, History Department, Northeast University
Matthew Augustine, Associate Professor, History Department, Kyushu University
Yun Xia, Associate Professor, History Department, Valparaiso University
Chihyun Chang, Research Fellow, Shanghai Jiao Tong University
Manuel Perez Garcia, Associate Professor, History Department, Shanghai Jiao Tong University

Activities
(1) Lecture and Discussion (5 days).
(2) Workshop (1 day)
(3) Jiangnan cultural visits (1 day)

Application Deadline
March 15, 2019
Applicants should submit their CV and a short statement of their research interests and how this workshop would fit into their training. A recommendation letter is also required for students. PhD students and junior scholars must submit one research paper for the workshop, and master student can choose to submit or not. Application materials should be submitted online: http://apply.sjtu.edu.cn

Eligibility
20 graduate students and junior scholars from oversea. 10 graduate students and senior undergraduates students from Universities and Institute from mainland China, Hong Kong, Macau and Taiwan.

Scholarship
All accepted participants’ accommodation expenses will be covered.

Website
http://history.sjtu.edu.cn

Contacts
Chihyun Chang chihyun@sjtu.edu.cn 86-187178233369
Hang Xu kyokou@sjtu.edu.cn 86-15055690159
2019 International Summer School on Design
– Design workshop on future smart city and space

Organizer: School of Design
Time: July-August, 2019
Venue: Xuhui Campus, Shanghai Jiao Tong University

> Program Overview
Taking Shanghai as the object of study, this summer school will study the possibility of optimizing and upgrading the spatial system of smart city in the process of Shanghai’s construction of international central city, and carry out targeted research combined with important urban spatial nodes in Shanghai. This research will explore the development mode of Shanghai under the background of information technology with international vision and interdisciplinary thinking. The research results can not only provide useful thinking for the future development of Shanghai, but also provide reference for the construction of other smart cities in China.

> Themes
1. Research on the combination of information technology and urban spatial system.
2. Urban regeneration and digital urban design.
3. Research on Smart Life Based on big data.

> Featured Activities
1. In Shanghai Jiao Tong University, experience Chinese University education, campus culture and learn Chinese culture;
2. Visit the Bund Architecture Complex, Shanghai Museum, Lilang Westernized House, and Shanghai Planning Museum and so on, to fully understand the historical development and cultural attractions of Shanghai;
3. Through academic lectures, students from different majors at home and abroad can think about cities and buildings;
4. Interactive exchanges with Chinese students or international students, joint cooperation in urban design and architectural design, promote the collision and inspiration of different ways of thinking;
5. Integrate academic research thinking with design practice to deepen students’ understanding of smart cities and buildings.

> Faculty

Overseas Professors

Domestic Professors

Eligibility
20 junior or senior undergraduate students and first-year graduate students from “Belt and Road” countries, as well as 10 Chinese junior or senior undergraduate students will attend the summer school.

Scholarship
Scholarships are available for students with excellent academic background.

Application Deadline
May 31, 2019

Week 0
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<th>Time</th>
<th>Weekend</th>
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<tbody>
<tr>
<td>AM</td>
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<td>Registration</td>
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<td>PM</td>
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<td>Opening Ceremony</td>
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Week 1
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<th>Time</th>
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<tr>
<td>AM</td>
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<td>Seminar on Smart City, City of the Future, Urban Design, Architectural Aesthetics, and etc.</td>
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<tr>
<td>PM</td>
<td>Cultural Activity</td>
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<td>Site Visiting, Meeting with Tutor</td>
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<tr>
<td>Evening</td>
<td>Chinese Culture</td>
<td>Design Studio</td>
<td>Chinese Culture</td>
<td>Design Studio</td>
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Week 2
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<tbody>
<tr>
<td>AM</td>
<td>Cultural Activity</td>
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<td>Seminar, Company Visiting, Company Visiting, Company Visiting</td>
</tr>
<tr>
<td>PM</td>
<td>Meeting with Tutor</td>
<td>Design Studio</td>
<td>Interview</td>
<td>Design Studio</td>
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<tr>
<td>Evening</td>
<td>Design Studio</td>
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<td>Design Studio</td>
<td>Cross-Culture Activities</td>
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Website
http://dschool.sjtu.edu.cn/home/international/enroll/summer/ab04f32dc-ceed0-4adb-c92d-b503f36c4035

Contacts
Jian Wu: jianarc@sjtu.edu.cn
Ju Huang: huangju@sjtu.edu.cn
About the Organizers

> School of Naval Architecture, Ocean & Civil Engineering

School of Naval Architecture, Ocean and Civil Engineering (NAOCE), founded in 1907, is the cradle of modern education and scientific research in the field of China's Naval Architecture and Ocean Engineering, carrying forward the splendid tradition and educational philosophy of SJTU. From the first nuclear-powered submarine successfully tested in the 70s to the "Sea Dragon Series" ROV developed in-house now, NAOCE keeps moving forward to the glory with the spirit of practice and innovation. NAOCE consists of four departments, including Naval Architecture and Ocean Engineering, Engineering Mechanics, Civil Engineering, and Transportation, Shipping and Logistics. Two primary disciplines of Naval Architecture and Ocean Engineering and Mechanics are accredited as the two National Primary Key Disciplines. Naval Architecture and Ocean Engineering, Mechanics, and Civil Engineering offer PhD programs of primary disciplines and host Postdoctoral Research Stations. NAOCE has two "double first-class" disciplines, won the top shot in the 2017 Academic Ranking of World Universities (ARWU), and ranked at 32nd in the 2017 QS World University Rankings of Civil Engineering (2nd in China).

> School of Materials Science and Engineering

SJTU pioneered in setting up the discipline of Materials Science and Engineering (MSE) in China, based on the program of heat treatment of metals which was established in 1952. Nowadays, the MSE program in SJTU has been consistently ranked among the national top five, being No. 1 in 2003, as evaluated by the Minister of Education. In 2007, the MSE program of SJTU was authorized as the State Key Academic Program at Primary Discipline Level. MSE program of SJTU was ranked 27 in 2017 QS world university ranking and has been listed in the world top 0.1% discipline of ESI for years.

> School of Physics and Astronomy

There are 204 faculty members and staffs in the School of Physics and Astronomy, with 6 academicians of the Chinese Academy of Sciences, 66 professors. We boast 7 special-term professors and 12 chair professors in the Yangtze River Scholars Program and 21 winners of the National Science Fund for Distinguished Young Scholars. Now, we have a state teaching base for engineering physics and a national physics experimental teaching demonstration center with subjects and researching institutes on theoretical physics, optics and photonics, condensed matter physics, plasma physics, particle physics, cosmology, solar energy, space and astrophysics, optical engineering and quantum optics and quantum information.
> **Institute of Natural Sciences**

Institute of Natural Sciences (INS) is an interdisciplinary center for creative research which aims at breaking down the traditional confines of individual disciplines, and becoming an intellectual center for world-class interdisciplinary studies. The INS faculty consists of internationally-established scientists as well as distinguished young research fellows, and with specialties in fields ranging from Applied Mathematics, Physics, Computer Sciences, to Engineering, Biology and Life Sciences.

> **Bio-X Institutes**

The Bio-X Institutes of Shanghai Jiao Tong University was formed in 2005 by merging the Neuropsychiatric and Human Genetics Group (NHGG), which was established in 1996, and the Bio-X Life Science Research Institutes, which was established in April 2000. The Bio-X Institutes has over 2000 square meters of world-class cutting-edge laboratory facilities across two Shanghai campuses in Xuhui and Minghang and at the Institute for Nutrition Science, SIBS/CAS. The Institutes also has substantial financial support from national and local sources. It has won several significant honors, including First Prize in the Shanghai Science and Technology Awards, First Prize in the Science and Technology Awards of the Chinese Ministry of Education, and Second Prize in the National Natural Science Awards. Furthermore, the Institutes has made at least three breakthroughs in the history of Shanghai Jiao Tong University: It contributed the first chief scientist in the National “973” Program; was the first to have papers published in Nature Genetics; and was first to achieve the Second Prize of the National Awards for Natural Science. To date, the Institutes has published more than 200 papers in international journals and writes more than 10 professional books, wholly or in part. Additionally, more than 10 patents have been authorized or are pending.

> **School of Biomedical Engineering**

Shanghai Jiao Tong University (SJTU) established the Discipline of Biomedical Engineering (BME) in 1979, which was one of the first universities in China to establish the Discipline of BME. Since its founding, in the spirit of 'Dare to become a pioneer, and search for excellence', the faculty and staff of BME have made significant progress in research, education, and development. It has constantly been a leading BME program in China: The Discipline is a Key Discipline of the Nation, which has been ranked in the top three in all of the three national evaluations since 2002. The Discipline of BME has become a ‘Star Discipline’ of SJTU. Currently, there are 187 undergraduate students and 191 graduate students in the School of BME. There are six academic areas in the school, including Biomedical Instrumentation, Neuroscience and Engineering, Medical Imaging and Informatics, Nano-Biomaterials, Systems Biology and Medicine, and Biological Sciences and Diseases, on a broad interdisciplinary basis.

> **China-UK Low Carbon College**

The college will closely integrate with China's green development strategy and provide China with talent, technology and industry support for its deep participation in global governance, for China's low-carbon and sustainable development, and for China's solution to global climate change. The college will bring world-class experts together in the low-carbon field to build a teaching and research institute with international influence and cross-cutting disciplines in the low-carbon field. The college is committed to cultivating the top and new international talents in the low-carbon field, organizing advanced and low-carbon training in advanced and systematic fields, conducting cutting-edge and innovative scientific research, promoting the development of low-carbon technologies.

> **School of Media and Communication**

Established in 2002, School of Media and Communication (SMC) at Shanghai Jiao Tong University consists of three departments, including Journalism & Communication, Film & Television, and Cultural Industry Management. It offers a series of undergraduate, master, and doctoral programs in these fields. Currently, SMC has 400 undergraduates, 200 master students, and 100 doctoral students. Our journalism and communication major ranks top 5 in China, and was in top 100 of the QS World University Rankings by Subject in both 2012 and 2014.
School of Humanities

The School of Humanities is composed of Department of Chinese Language and Literature, Department of History, Department of Philosophy, Center for International Chinese Education, Center for Art Education, and National Cultural Quality Education Base for Students is affiliated to the School of Humanities; Institute for Advanced Study in European Culture, Shanghai Jiao Tong University – K.U.Leuven "European Culture Research Center" and the Center for the Tokyo Trial Studies as the university-level academic platforms, and the Research Center for World Anti-Fascist War as the ministrial and provincial academic platform, are affiliated to the School of Humanities for their management. The academic disciplines designed for the School of Humanities include five first-level disciplines covering literature, Chinese history, world history, philosophy, and art.

School of Design

In more than one hundred years and across three centuries, today’s Shanghai Jiao Tong University is a comprehensive, research-intensive and global university. Design education in the built environment at Shanghai Jiao Tong University can be traced back to the early twentieth century. In December 2017, the University grouped the design related disciplines scattered in different schools, and amalgamated three departments, Architecture, Design and Landscape Architecture, to establish the new School of Design. In the QS subject ranking, "Architecture and the Built Environment" at Shanghai Jiao Tong has been ranked in the top group in both China and globally, whilst "Art and Design" in 2015 and 2016 made the top 50 in the world. Riding on the world-class platform, high-calibre students and the first-rate research of the university, our vision is to become a global School of Design with a distinctive Shanghai Jiao Tong character, and a community of talented scholars and design practitioners.