



上海交通大學
SHANGHAI JIAO TONG UNIVERSITY

2021 SJTU Graduate International Summer School





Shanghai Jiao Tong University (SJTU)

Shanghai Jiao Tong University (SJTU), one of the oldest institutions of higher learning in China, enjoys world reputation as well. As a comprehensive, research-oriented, and international 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>

> SJTU Graduate School

SJTU began to offer post-graduate education in 1931, and established the Graduate School in 1984. Since then, more than 110,000 Master's or Doctoral Degrees have been awarded. SJTU has set up a complete post-graduate education and degree-awarding system, offering degree programs at both the master's & doctoral levels in a great number of academic areas encompassing engineering, sciences, humanities and social sciences. Currently, there are 33,249 postgraduates (14,589 full-time master students and 9,903 full-time doctoral students). The university also boasts a team of top-tier faculty, including 48 academicians of Chinese Academy of Sciences or Chinese Academy of Engineering. For more information, please visit: <http://en.gs.sjtu.edu.cn>

> A Glance of SJTU



Graduate International Summer School



Shanghai Jiao Tong University launched the Graduate International Summer School in 2013, which covers a wide range of specialties instructed by faculties from SJTU as well as other world leading institutions. The summer school is an ideal opportunity for students from different parts of the world to explore new subject areas, get immersed in state-of-the-art laboratories and make new friends. Students can take courses from various specialties, while attending workshops, field trips and study tours.

2021 SJTU Graduate International Summer School (ISS) consists of 7 individual programs as follows:

Programs

> Engineering

1. "Ocean Dreams" — 2021 International Summer School on Naval Architecture, Ocean Engineering and Mechanics / P04
2. The 6th "Zhi-Hong" International Summer School of Advanced Materials (ISS-AM)— Advanced Functional Materials (Online) / P06
3. 2021 SJTU-KTH International Summer School / P08

> Life Science

4. 2021 International Summer School on Green for Life / P10
5. 2021 SJTU Brain Facts International Summer School / P12

> Cross-disciplinary & Innovative Programs

6. Urban Biodiversity and Conservation: Global Perspectives and Comparisons / P14
7. Urban Cultural Diversity and Visual Presentation: Revisiting the Memory of Spanish Culture in Shanghai / P16

Time

The Graduate International Summer School of 2021 will be held in July and August. The specific time arrangement varies with the program. Please refer to the description of each program for detailed information.

How to Apply

Due to unforeseen changes in border control worldwide caused by Covid-19, the 2021 SJTU Graduate International Summer School will be held both online and offline, with participants within China taking part offline and others online. For details, please refer to each program. 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 (waived for international applicants to take part in the programs online)
- > ID photo (similar to a passport photo)
- > Curriculum vitae
- > Language proficiency certificate (if available)
- > Motivation letter (if available)
- > Transcripts (if available)

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

Financial Support

All programs provide financial support to successful applicants by ways of tuition waiver, or free local lodging, or both. In addition, the Graduate School offers a limited number of fellowships that are applicable through the programs. Please refer to description of each program or contact the program manager for detailed information.

“Ocean Dreams”

— 2021 International Summer School on Naval Architecture, Ocean Engineering and Mechanics

Organizers: School of Naval Architecture, Ocean & Civil Engineering

Time: August 1-7, 2021

Venue: Shanghai Jiao Tong University, laboratories, museums, exhibition halls and famous enterprises
(Online and offline)

> Program Overview

Naval architecture, ocean engineering and mechanics cover a wide range of knowledge and emphasizes on both theory and practice. It involves 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 2019, more than 80 senior undergraduates, graduates and lecturers from China, Canada, Sweden, Japan, South Korea, India and Pakistan joined the two-week summer school. Participants attended excellent lectures given by 24 distinguished experts and scholars from UK, Norway, Australia, Japan, South Korea and China.

On the basis on the previous experiences, 2021 Summer School is the 12th grand event, and it will continue to provide excellent opportunities for students to learn about the latest theories and applications on naval architecture, ocean engineering, civil 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 around the world.

> Courses and Activities

Lectures, seminars, posters exhibition, ice-breaking activity, model racing, study tour of museums and culture, field trips to research institutions and enterprises, and scientific research in the labs under the supervision of professors at SJTU, etc.



> Potential Professors and Lecturers List

No	Name	Expertise	Institute	Country
1	Zhen Gao	Professor of Ocean Engineering	Norwegian University of Science and Technology	Norway
2	Atilla Incecik	Professor of Ocean Engineering	University of Strathclyde	UK
3	Changhong Hu	Professor of Ocean Engineering	Kyushu University	Japan
4	Wenhua Zhao	Professor of Ocean Engineering	University of Western Australia	Australia
5	Masashi Kashiwagi	Professor of Hydrodynamics	Osaka University	Japan
6	Yonghwan Kim	Professor of Marine Hydrodynamics	Seoul National University	South Korea
7	Zhiming Yuan	Lecturer of Marine Hydrodynamics	University of Strathclyde	UK
8	Yong Bai	Professor of Ocean Engineering	Zhejiang University	China
9	Zaojian Zou	Professor of Hydrodynamics	Shanghai Jiao Tong University	China
10	Lixin Xu	Expert of Ocean Engineering	China Merchants Group	China
11	Pizhong Qiao	Professor of Solid Mechanics	Shanghai Jiao Tong University	China
12	Decheng Wan	Professor of Ship and Marine Numerical Tank	Shanghai Jiao Tong University	China
13	Benlong Wang	Professor of Hydrodynamics	Shanghai Jiao Tong University	China
14	Chi Zhang	Professor of Coastal Engineering	Hohai University	China
15	Jian Yang	Professor of Civil Engineering	Shanghai Jiao Tong University	China
16	Shuhong Chai	Professor of Ocean Engineering	Australian Maritime College	Australia
17	Zhi Zong	Professor of Ocean Engineering	Dalian University of Technology	China
18	Dezhi Ning	Professor of Hydrodynamics	Dalian University of Technology	China
19	Aman Zhang	Professor of Fluid-Structure Interaction	Harbin Engineering University	China
20	John Z. Shi	Professor of Coastal Hydrodynamics	Shanghai Jiao Tong University	China
21	Ye Li	Professor of Marine Wind Energy	Shanghai Jiao Tong University	China
22	Mingsong Zou	Professor of Hydroelasticity	Chinese Ship Scientific Research Center	China
23	Hao Liu	Professor of Hydrodynamics	Chiba University	Japan
24	Zhiqiang Hu	Professor of Ocean Engineering	Newcastle University	UK
25	Dongqiang Lu	Professor of Hydrodynamics	Shanghai University	China
26	Bin Teng	Professor of Coastal and Offshore Hydrodynamics	Dalian University of Technology	China

> Eligibility

PhD candidates and Master students who are interested in the theories and applications of naval architecture, ocean engineering and mechanics, and senior undergraduates who are interested in pursuing degree at SJTU.

> Fees and Scholarships

1. Tuition: waived
2. Accommodation for international students: Double Room RMB 50-60/day; Single Room: RMB 80-110/day.
3. Transportation: The round-trip train fare & international airfare shall be covered by each participant.
4. Additional fellowships available for application.

> Application

If you are interested, please apply on <http://apply.sjtu.edu.cn>

Deadline: July 1, 2021

> Agenda (Tentative)

Date	Event	Venue
August 1	Opening ceremony; Ice-breaking activity	Online and offline
August 2-6	Lectures and seminars; Academic salons; Cultural exchange activities; Online visits of campus, laboratories and enterprises	
August 7	Closing ceremony	



Website

http://naoce.sjtu.edu.cn/yjsjwb_tzgg/10420.html

Contacts

Miss Gao & Miss Li
Email: naocegs@sjtu.edu.cn
Tel: +86-21-34206194 / 34206200

The 6th “Zhi-Hong” International Summer School of Advanced Materials (ISS-AM)

— Advanced Functional Materials (Online)

Organizer: School of Materials Science and Engineering

Time: July 4-16, 2021

Venue: Online

> Program Overview

The “Zhi-Hong” International Summer School of Advanced Materials (ISS-AM) is organized by School of Materials Science and Engineering (SMSE) at Shanghai Jiao Tong University (SJTU), aiming at promoting the interactive cultural and academic exchange 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”.

“Zhi-Hong” ISS-AM is a two-week program with one theme every year. “Advanced Functional Materials” will be the theme of the program in 2021.

In the last five years, the 1st to 5th “Zhi-Hong” ISS-AM were organized successfully. 119 foreign students from over than ten countries and 136 outstanding Chinese students have been selected to attend the past five events. Many renowned experts and scholars from our university and foreign institutes, e.g. Harvard University, Northwestern University, The Ohio State University, Osaka University, Monash University, National Institute for Materials Science in Japan, Ryerson University, were invited to give academic lectures. It's worth mentioning that we have held an online summer school in 2020, and it was a great success. We'll explore more interesting online activities and better organization in 2021.



> Highlights

The “Zhi-Hong” ISS-AM will offer lectures and professional practises in all areas of Advanced Functional Materials and organize student seminars, visits to research laboratories, culture festival, online field trips and culture tours in Shanghai. The “Zhi-Hong” ISS-AM is also a platform provided for graduate and senior undergraduate 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 senior undergraduate students who are majored 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 oversea and domestic participants will be recruited.

> Activities

- 1) Lectures
- 2) Poster shows
- 3) Online field trips
- 4) Student seminars
- 5) Culture festival
- 6) Special programs

> Program Agenda (Tentative)

Day	Time	Event
1	4-Jul, Sun	Ice-break and Teaming-up
2	5-Jul, Mon	Opening Ceremony, Lectures.
3	6-Jul, Tue	Lectures, Special Program
4	7-Jul, Wed	Lectures, Special Program
5	8-Jul, Thu	Lectures, Special Program
6	9-Jul, Fri	Online Trip
7	10-Jul, Sat	Culture Activities
8	11-Jul, Sun	Free Time
9	12-Jul, Mon	Lectures, Special Program
10	13-Jul, Tue	Lectures, Special Program
11	14-Jul, Wed	Lectures, Special Program
12	15-Jul, Thu	Online Trip
13	16-Jul, Fri	Group Presentation, Awards & Closing Ceremony

> About Faculty

The lecturers will be from:

USA: Harvard University, Northwestern University, UCSB, Argonne National Laboratory

China: Shanghai Jiao Tong University

For most updated list of confirmed lectures, please visit the website of “Zhi-Hong” ISS-AM:

https://smse-iss.sjtu.edu.cn/?page_id=2

> Fees & Scholarships

Tuition: 3000 RMB

“Zhi-Hong Excellence” Scholarships

Amount: 3000 RMB/person

Number: more than 90% of the enrolled participants

> How to apply

(1) **For International students:** apply online

<http://apply.sjtu.edu.cn>

(2) **For Chinese students:** submit application materials by email at (zh_iss@sjtu.edu.cn)

Application Deadline: May 30, 2021



Website

<https://smse-iss.sjtu.edu.cn/>

Contacts

Coordinator: Weihui XIE, Shuhui WU

Email: zh_iss@sjtu.edu.cn Tel: +86-21-54747664

Address: Room 4003, Xuzuyao Building, School of Materials Science and Engineering, Shanghai Jiao Tong University, 800 Dongchuan Road, 200240, Shanghai



2021 SJTU-KTH International Summer School

Organizer: School of Biomedical Engineering
Time: July-August, 2021
Venue: Online

> Program Overview

Since 2012, SJTU and KTH have launched summer school of biomedical engineering for 7 years involving almost 30 professors and 120 students from both universities. Every year we arrange projects, scientific research, hospital visit and cultural activities. The 2021 summer school will be held in SJTU and open for application by senior undergraduate students and Master students from all over the world.



> Agenda

Dates	Activity	Location	Notes
Day 1	Registration	Med-X Room 212	Till 17:00pm
Day 2	Kicking Off Ceremony	Med-X Room 218	1. Project and Program Briefing 2. Meeting with Project Supervisors
	Welcome Reception	Faculty Center	
Day 3-4	Project Works in Lab under Supervision	With each lab	Each Project should submit an agenda of their own
Day 5	Field Trip to United Imaging		
Day 6	Workshop Day		
Morning	Invited Talks (4-6 in total)		
9:00-9:30	Speaker 1 TBD	Title 1 TBD	
9:30-10:00	Speaker 2 TBD	Title 2 TBD	
10:00-10:20	Tea Break		
10:20-10:50	Speaker 3 TBD	Title 3 TBD	
10:50-11:20	Speaker 4 TBD	Title 4 TBD	
Lunch (11:30-13:00)			
Afternoon	Project Presentations 40"PPT+20min Q/A for Each Project		
13:00-14:00	Project 1 TBD		
14:00-15:00	Project 2 TBD		
15:00-15:30	Tea Break		
15:30-16:30	Project 3 TBD		
Day 7 Morning	Chinese Culture Tour		
Afternoon	Award & Farewell Ceremony		

> Application

Please apply online (<http://apply.sjtu.edu.cn>) before June 1, 2021.

> Registration

Free for the all registered students.

> Scholarships and Certificates

School of Biomedical Engineering, SJTU will provide a certain number of scholarships, which will cover a part of the expenses. Application for scholarship should contact Ms. Li SHANG at shangli@sjtu.edu.cn.

> Accommodation

SJTU will arrange the accommodation for KTH faculty and students.

> Remarks

In case of force majeure such as epidemic situation etc., the activity will be held online.



Website
<https://bme.sjtu.edu.cn/En>

Contacts
 Ms. Li SHANG shangli@sjtu.edu.cn

2021 International Summer School on Green for Life

Organizer: China-UK Low Carbon College
Time: June 28 – July 2, 2021
Venue: No. 3 Yinlian Road, Pudong District, Shanghai, PRC.
 China-UK Low Carbon College, Shanghai Jiao Tong University (Lingang Campus)

> Theme: "Green for Life"



> Program Overview

The 2021 International Graduate Summer School — Green for Life will be organized and hosted by China-UK Low Carbon College, Shanghai Jiao Tong University. By focusing on four modules: Frontier Lecture (including Laboratory Teaching), Seminar, Enterprise Visit and Study Tour within low carbon area, this Summer School aims at facilitating academic communication, enhancing scientific research abilities, encouraging innovation and motivating achievements.

> Highlights

- 1. Leading Edge:** The summer school will integrate resources from the British Government, the University of Edinburgh and Shanghai Jiao Tong University as well as other organizations to carry out an in-depth cooperation.
- 2. Interdisciplinary:** China-UK Low Carbon College

has absorbed and transformed the cutting-edge technologies and innovation achievements from the University of Edinburgh in related fields, and merged with the School of Mechanical Engineering as well as School of Environmental Science and Engineering, hoping to broaden academic ideas, stimulate research vitality, and release the innovative kinetic energy and cross-exploration ability.

3. Intelligence: China-UK Low Carbon College is based in Lin-gang Special Area of the Shanghai Pilot FTZ. The "intelligent manufacturing" of Lin-gang is developing steadily and sustainably in terms of promoting the coordinated development of intelligent manufacturing.

4. Low-carbon: The four modules of LCC Summer School are closely linked with the theme of low-carbon development, which fully reflects the characteristics of SJTU, and also vigorously promotes the good tradition of SJTU students as being pragmatic and learning for practice in the meantime.

> About Faculty



LCC aims at establishing a diversified faculty team to carry out first-class teaching and research. In addition to its own faculty members, the college also cooperates with other schools of SJTU, such as School of Environmental Science and Engineering, School of Mechanical Engineering, Shanghai Advanced Institute of Finance, Antai College of Economics & Management, KeGuan School of Law and School of International and Public Affairs.

<p>Assistant Professor - Qi Chen Research Fields: • Gas Chemistry • BOFs • Solid oxide utilization • Sustainable chemical • Catalysis</p>	<p>Assistant Professor - Wanghe Chen Research Fields: • Energy Conversion • Energy Storage</p>
<p>Associate Professor - Qi Bing Research Fields: • Biogas Thermoelectric conversion • Hydrogen • Process modeling and energy system analysis</p>	<p>Assistant Professor - Fan Dong Research Fields: • Computational and thermal engineering • Laser diagnostics of reacting flows • In-cylinder diagnostics of flow, mixing and combustion of combustion engines • Fuel and path planning for autonomous road vehicle</p>
<p>Associate Professor - Ningbo Chen Research Fields: • Building mechanism in microscale pores • Light flow regulation in microscale porous media • Catalytic energy storage (TES) based on novel materials • Solar assisted air conditioning and storage (SACS)</p>	<p>Professor - Wang He Research Fields: • Industrial and municipal wastewater treatment • Energy efficiency • Resource recovery • Resource recovery and reuse • Resource recovery and reuse</p>
<p>Associate Professor - Shengbin He Research Fields: • Waste energy utilization • Micro- and nano-scale energy transport • Materials synthesis</p>	<p>Associate Professor - Jie Li Research Fields: • Carbon capture and storage • Biomass • Biohydrogen</p>
<p>Assistant Professor - Mingjie Li Research Fields: • Power generation • Power generation simulation and analysis • Power generation and power system simulation • Power generation and power system simulation</p>	<p>Researcher - Jingxin Li Research Fields: • Energy storage, energy system, and energy storage • Energy storage, energy system, and energy storage • Energy storage, energy system, and energy storage</p>
<p>Assistant Professor - Xiangbin Li Research Fields: • Biomass energy • Biomass energy • Biomass energy</p>	<p>Assistant Professor - Chunde Liu Research Fields: • Biomass energy • Biomass energy • Biomass energy</p>

<p>Associate Professor - Tao Ren Research Fields: • Heat and mass transfer • Energy utilization • Combustion diagnostics • Combustion diagnostics</p>	<p>Associate Professor - Ruijie Su Research Fields: • Thermal Energy Storage and Efficient Utilization of Biomass Energy • Heat and Thermal Transport in Porous Media • Thermoelectric Energy Conversion and Thermoelectric Heat Storage Technology • Heat and Thermal Transport Characteristics of Nanofluids and Nanoparticles</p>
<p>Assistant Professor - Fan Fan Research Fields: • Biomass Energy & Biomaterials • Municipal Solid Waste Conversion • Organometallic Catalysts for Biomass Conversion • Thermoelectric Conversion Process • Pollution Control during MSW Biomass Conversion Process</p>	<p>Professor - Changqing Chen Research Fields: • Heat transfer in porous media • Many-phase thermal radiation • Thermal energy storage</p>
<p>Assistant Professor - Huihui Xu Research Fields: • Energy utilization of carbon-based porous • Energy utilization of carbon-based porous • Energy utilization of carbon-based porous</p>	<p>Associate Professor - Ruijie Zhang Research Fields: • Energy utilization of carbon-based porous • Energy utilization of carbon-based porous • Energy utilization of carbon-based porous</p>
<p>Associate Professor - Cheng Chang Yang Research Fields: • Alternative fuel • Gas turbine • Spray flame • Laser diagnostics</p>	<p>Associate Professor - Jingxin Zhang Research Fields: • Heat and mass transfer and its energy and resource utilization • Heat and mass transfer and its energy and resource utilization • Heat and mass transfer and its energy and resource utilization</p>

Visiting scholars

<p>Associate Professor - Robert M. Waymouth Research Fields: • Electrochemistry • Industrial and municipal wastewater treatment • Energy efficiency • Low-carbon energy</p>	<p>Associate Professor - Arif Habib Research Fields: • Industrial and municipal wastewater treatment • Energy efficiency • Low-carbon energy</p>	<p>Associate Professor - Gao Jun Research Fields: • Energy efficiency • Low-carbon energy</p>
<p>Senior Lecturer - William S. Ho Research Fields: • Energy efficiency • Low-carbon energy</p>	<p>Professor - Neil Ashraf-Pirani Research Fields: • Energy efficiency • Low-carbon energy</p>	<p>Researcher - Gao Jun Research Fields: • Energy efficiency • Low-carbon energy</p>



> Agenda (Tentative)

Date	Time	Activity Form	Topic
28/06/2021	9:00-9:30	Opening Ceremony	
	9:30-12:00 14:00-17:00	Lecture Seminar	Environmental and Energy Aspects of Urban Building Design and Operation (TBD)
29/06/2021	9:00-12:00 14:00-17:00	Lecture	Waste Management Seminar(TBD)
30/06/2021	9:00-17:00	Enterprise Visit	Everbright (TBD)
01/07/2021	9:00-12:00	Lecture	Fundamentals of Renewable Energy Sources (TBD)
	14:00-17:00	Chinese Culture Discovery	
02/07/2021	14:00-17:00	Group Final Report	Outstanding Prize
	9:00-12:00	Closing Ceremony	

> Eligibility

The program is open to 3rd and 4th Year undergraduate and post-graduate students from all over the world.

> Application Deadline

Please apply online (<http://apply.sjtu.edu.cn>) before June 18, 2021



Website
<http://lcc.sjtu.edu.cn/>

Contacts

Ms Nan JIANG
 Tel: 021-80160861
 E-mail: jn129116@sjtu.edu.cn

2021 SJTU Brain Facts International Summer School

Organizer: Bio-X Institutes

Time: June 28- July 9, 2021

Venue: Online



> Program Overview

Complex and amazing brain entitles human being to be the wisest creature on earth. In the 21st century, rapid developments of human civilization and technology, especially biomedicine, not only make us healthier and longevous, but also helps us pay more attention to functions and health of our mind. After more than 10 years of growth, Bio-X Institutes became one of the best centers of researches and practices of mental health under the leadership of Academician Lin He. Ever since 2013 when our Institutes first launched the English course called Brain Facts, we have invited a series of world leading scientists two years in a row to give students lessons. In 2015 and 2016, we successfully held SJTU-KCL Brain Facts International Summer School. This is the first time that professors and researchers of Shanghai Jiao Tong University and King's College London as well as other top universities and institutions worldwide join hands together to participate in an International Summer School. From 2017 to 2020, we continue holding Brain Facts International Summer School, and gain popularity year by year. In 2021, our Institutes will continually hold the SJTU Brain Facts International Summer School. We warmly welcome undergraduates, postgraduates and research fellows who are interested in this field all come and join this grand gathering.

2021 SJTU Brain Facts International Summer School will be taught by the leading scientists worldwide, some of which are masters in perspec-

tive fields. 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 the modern humankind. By focusing on the advances of neuroscience and the facts of the brain, the summer school intends to trigger the curiosity of the students on the mystery of brain, train students to investigate, think, discuss and present their own opinions on the important scientific issues. 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 link theory with practice. Besides, activities and sightseeing will be arranged to facilitate the participants to immerse to English and Chinese culture and life.

2021 SJTU Brain Facts International Summer School provides a valuable opportunity for the students to expand their horizon, comprehensive understanding of mental health and neuroscience. All activities held during this summer school aim at providing a good platform for the participants to get a well-known of the current trends of the subjects and make good communication between students home and abroad, promoting students' knowledge of brain and neuroscience and a deep understanding of the culture of Shanghai. This activity is doomed to boost talent development and internationalization of teaching, thus helping achieve our goal of creative talent cultivation reform.

> Activities

The courses include lectures, seminars, lab workshop, field trips to research institutions and enterprises. Students can enter interested labs to do experiments under the supervision of Chinese professors in SJTU and submit a lab report. In the end, summer school will issue a certificate to qualified participants. (2021 SJTU Brain Facts International Summer School has been changed to be held online.)

> Eligibility

Undergraduates, postgraduates, postdoc and research fellows home and abroad

> About Faculty (TBC)

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. Zhexin WEN, Professor of Emory University, USA

Dr. Zang Hee Cho, Professor of Seoul National University, Korea

Dr. Carmine M. Pariante, Professor of King's College London, England

Dr. Paola Dazzan, Professor of Arizona State University, England

Dr. Weidong Li, Professor of Shanghai Jiao Tong University, China

> Fees

Participants shall bear their traffic and catering expenses incurred during this summer school.

> Scholarship

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

> Application

Apply through <http://apply.sjtu.edu.cn>, and the deadline is May 31, 2021.

Schedule for 2021 SJTU Brain Facts International Summer School

Time	Venue	Activities
June 28, 2021	Online Meeting Room	SJTU Brain Facts International Summer School Opening Ceremony
June 28, 2021 —July 9, 2021 Monday-Friday	Online Meeting Room	Courses & Lectures
July 9, 2020	Online Meeting Room	Closing Ceremony for Course Part



Website

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

Contacts

TIAN, Xiaozhen xiaozhentian2019@sjtu.edu.cn
021-34207976

Urban Biodiversity and Conservation: Global Perspectives and Comparisons

Organizer: School of Design

Time: August 8- 14, 2021 (may adjust due to invited tutors's schedule)

Venue: Minhang Campus, Shanghai Jiao Tong University
(Online and offline)

> Program Overview

This is the 8th international summer school on urban ecology co-organized by Shanghai Jiao Tong University (SJTU) and the Society for Urban Ecology (SURE). It aims to introduce the state of the art in theories, methods, and practices in urban biodiversity and conservation at the global perspective and comparison. Shanghai, as one of the most urbanized

cities in China, is undoubtedly a living laboratory and best place to study urban biodiversity, and serves as the perfect site for practices. The summer school was deliberate to disseminate cutting-edge knowledge in urban biodiversity, to inspire novel ideas and thoughts, to activate and bridge the collaborations among the participants.



> Highlights

The summer school will focus on hotspot of urban biodiversity and the nexus of human activities, human habitats, and urban biodiversity. We aim to explore how to protect biodiversity in urban areas, to introduce the cutting-edge knowledge, the state-of-the-art theories, and approaches in urban biodiversity, to enhance the capability and understanding of biodiversity and conservation in theories and practices.

> About Faculty

We intend to invite distinguished scientists in urban biodiversity field. The potential tutors are listed, but not limited to the following professors, such as, Prof. Marc Cadotte (University of Toronto, Canada); Prof. Zdeňka Lososová (Masaryk University, Czech); Prof. Sonja Knapp (Environmental Research - UFZ, Germany); Prof. Amy K. Hahs (University of Melbourne, Australia); Prof. Myla F. J. Aronson (Rutgers University, The United States); Prof. Jurgen Breuste (University of Salzburg, Austria); Prof. Jun Yang (Department of Earth System Science, Tsinghua University); Prof. Junxiang Li (School of Design, Shanghai Jiao Tong University).

> Activities

Lectures, seminars, courses, field investigation, report.

> Eligibility

we can receive totally 40 Master and PhD students from domestic and international universities or institutes. The participant whose research interest in urban ecology, landscape architecture, landscape design are encouraged.

> Application

Deadline: June 25, 2021

Expected registration date: August 08, 2021

Application method: Overseas students please complete and submit an online application at Study@SJTU (<http://apply.sjtu.edu.cn>); Domestic students: send application materials to caiyawu@sjtu.edu.cn (copy of ID card or passport, English proficiency certificate (not necessary for students whose mother language is English), CV, motivation).

> Scholarship

The project can provide the student accommodation in SJTU; The international travel and accommodation will be covered for successful international student applicants including round-trip economic flight tickets not more than 5000 RMB from Asia, and 2000 US dollars from the other countries and regions. The accommodation fee is less than 300 RMB/day in the Minhang campus of SJTU.



Website

<https://designschool.sjtu.edu.cn/en-us/e689b4d7072385e4da5cfcb69bb3ecb4/b1f189e6d6e913c21091df7376358cd5/detail/603df124f5db3622d94831ce>

Contacts

Ms. Wu Tel: +86-13122176525 E-mail: caiyawu@sjtu.edu.cn

Urban Cultural Diversity and Visual Presentation: Revisiting the Memory of Spanish Culture in Shanghai

Organizer: School of Design, SJTU

Time: July 11-25, 2021 (may adjust due to invited tutors' schedule)

Venue: Minhang/Xuhui campus, Shanghai Jiao Tong University; City of Shanghai

> Program Overview

This program takes Shanghai as the research object to investigate the preservation and presentation of the multi-cultural integration of humanities and history in the city. Based on the research, the students will interpret and reproduce the memory of the city with an innovative artistic language, providing the historical memory of the city a contemporary meaning.

The project includes comprehensive investigation, cultural research and experimental art creation. Participants will explore the interdisciplinary research method in the background of humanities, history, and art, and find an artistic combination.

> Eligibility and Fees

Senior undergraduates and graduate students with backgrounds in humanities, history, and art
Accommodation (School cover part: Double Room RMB 150/person/day) and transportation (The round-trip of international airfare) shall be covered by each participant.

> About Faculty

School of Design, SJTU
Autonomous University of Madrid
Independent Art Curator



Prof. Yun WANG



Prof. Shen ZHUANG



Prof. Pedro A. Martínez Lillo



Prof. Rafael Martín Rodríguez



Mr. Hantao SHI



Prof. Ting CHEN

> Highlights

The project will be conducted by a team composed of professors and scholars of multi-disciplinary and multi-cultural background, which will reflect the characteristics of cultural blending. Transforming the results of historical research and humanities study into plastic art and design, this project will help explore the combined mode of humanistic research and artistic creation.

This project will provide a new angle of Shanghai study, and find the lost jigsaw of culture exchange and interaction in between China and Spain in Shanghai history.

> Application

Deadline: June 15th, 2021

Application method: Please complete and submit an online application at Study@SJTU (<http://apply.sjtu.edu.cn>)



> Activities

Project organization format: lecture, site visiting, workshop

Research perspective

Cultural and historical research

Research method

Group work, inspections, lectures, discussions, workshops



Research object-Shanghai



History



Today



Prospect

Program Achievements

Research Report

A text paper about the research topic selected by the group

+

Artistic creation

Art activities and visual presentations based on group topic



Contacts

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Website

<https://designschool.sjtu.edu.cn/en-us/e689b4d7072385e4da5cfcb69bb3ecb4/b1f189e6d6e913c21091df7376358cd5/detail/604071575e9a2e8bf542ca54>

About the Organizers

School of Naval Architecture, Ocean & Civil Engineering

NAOCE consists of five departments, namely, Naval Architecture and Ocean Engineering, Engineering Mechanics, Civil Engineering, Architecture and International Shipping.

The five departments all provide bachelor and master degree programs. Departments of Naval Architecture and Ocean Engineering, Engineering Mechanics, and Civil Engineering offer PhD programs of respective disciplines and host Postdoctoral Research Stations.

The School also features two state key disciplines (i.e., Naval Architecture and Ocean Engineering, and Mechanics), and two Shanghai key disciplines (i.e., Fluid Mechanics and Geotechnical Engineering).

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 25 in 2019 QS world university ranking and has been listed in the world top 0.1% discipline of ESI for years.

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.

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 to 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 written more than 10 professional books, wholly or in part. Additionally, more than 10 patents have been authorized or are pending.

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, their 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.