

From
6-19
July

2025

SUMMER SCHOOL

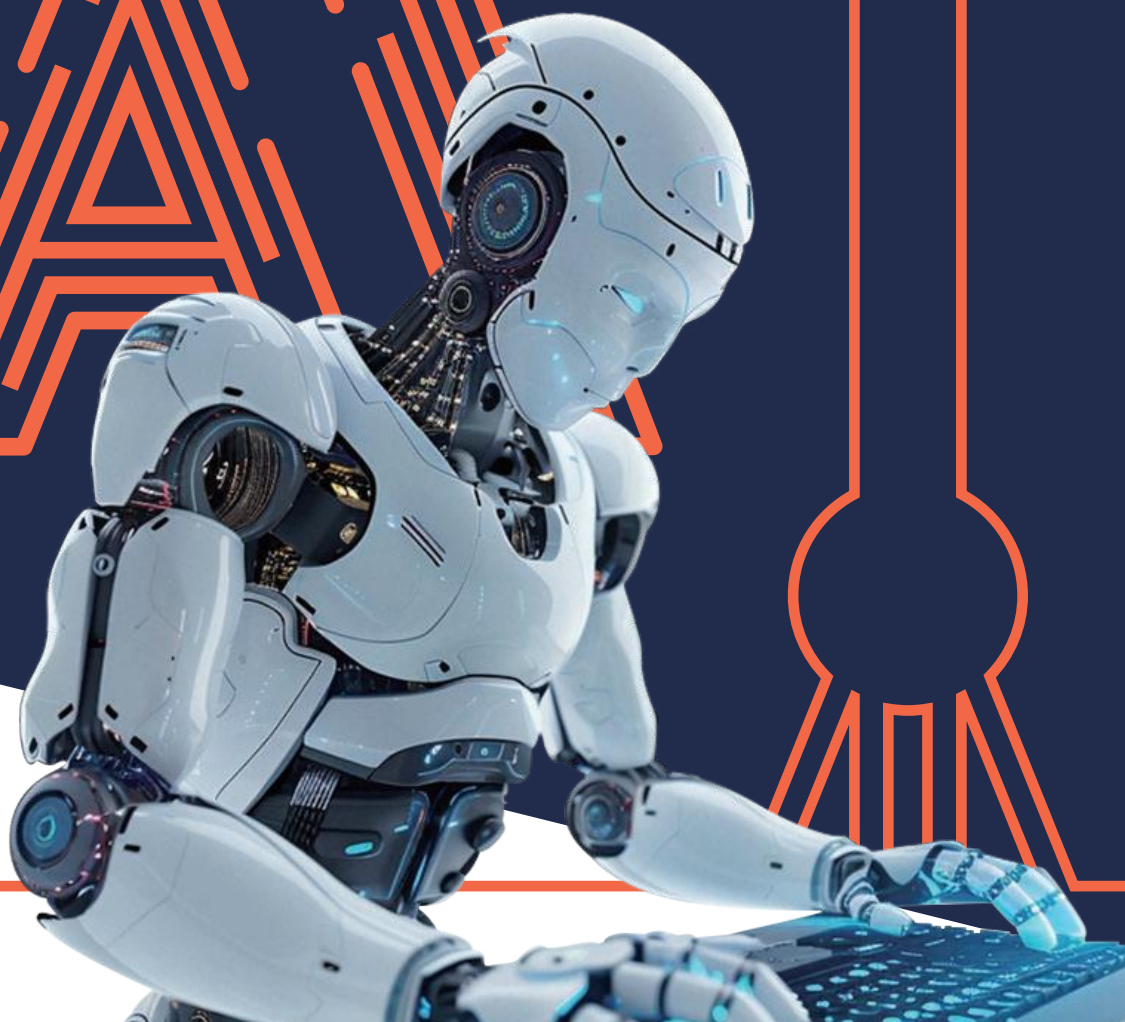
GLOBAL

Smart Energy
AI Driving
Robotics
Chinese Business
& Culture



上海交通大学
SHANGHAI JIAO TONG UNIVERSITY

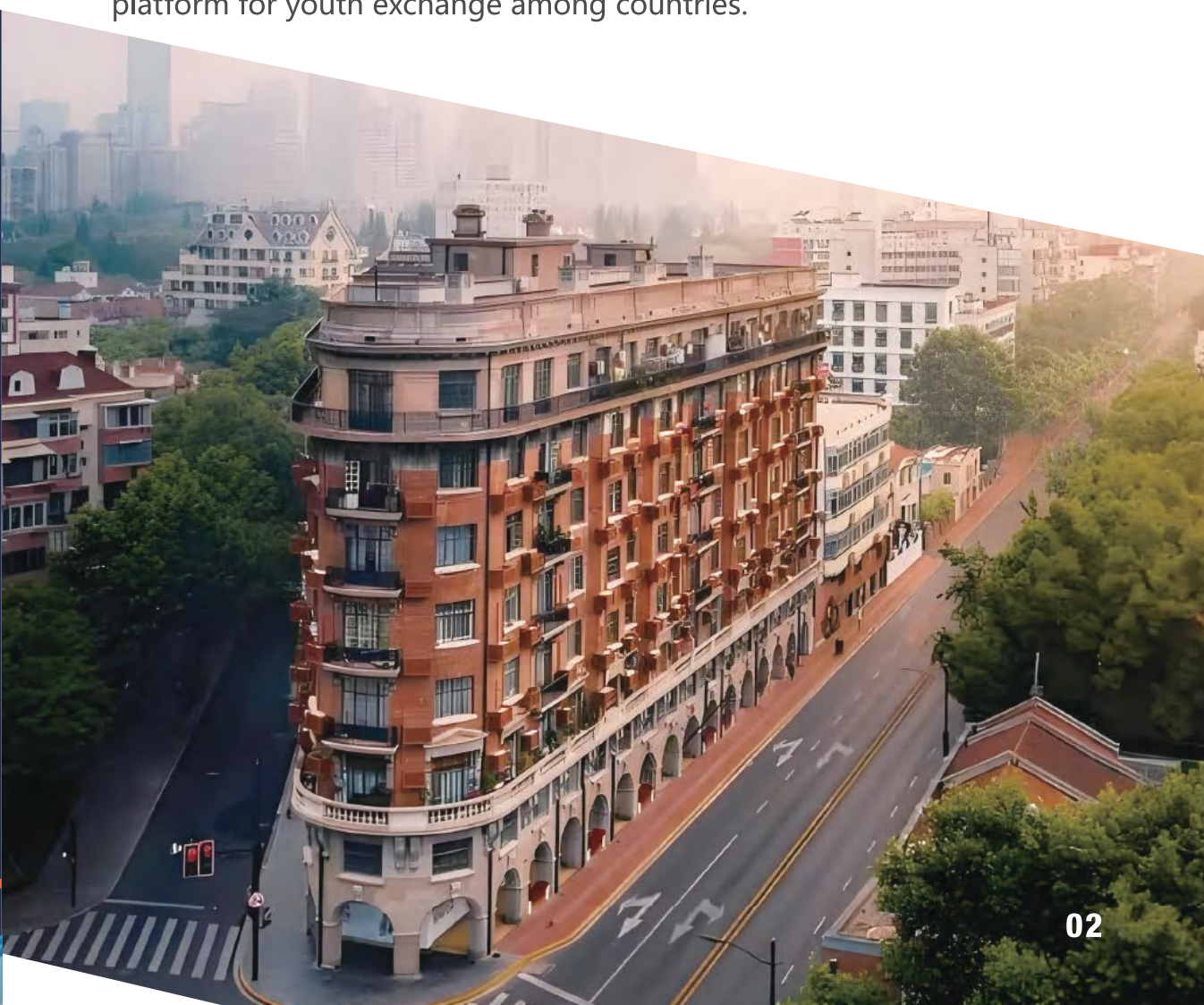
***GET READY TO ELEVATE
YOUR PASSION FOR
AI ROBOTICS AND
ENJOY THE CITY
VIBES OF SHANGHAI.***



Welcome

SJTU Global Summer School is a pre-university programme for 16-19 year-old high school students.

A 2-week flagship short-term program under the “Global SJTU” brand showcases SJTU’ s academic strengths, campus facilities, and vibrant culture of Shanghai. Through academic exchanges, cultural immersion, and youth dialogues, the program aims to enhance students’ cross-cultural communication skills, global competence, problem-solving abilities, and teamwork spirit. It also fosters awareness of global governance and international mindedness and serves as a platform for youth exchange among countries.





Language

All courses and activities are conducted in English

Eligibility

Targeted Students: International 11th–12th graders with strong academic curiosity and interest in China.

Requirements:

- Proficiency in math, physics, chemistry, or humanities subjects.
- Basic English communication skills.
- Good health and ability to adhere to program rules.

Registration: Group applications only (no individual registrations, group size: min 10 pax).

Fees & Costs

The standard fees and charges for this program is

- ★ **50,000 RMB/person approx 6,980 USD**
including on-campus accommodation;
- ★ **60,000 RMB/person approx 8,380 USD**
including off-campus housing (hotel)
- ★ Tuition, materials, activities, accommodation, meals, company visits and all related miscellaneous fees included.

Tentative Schedule

Time/Date	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
9:30-11:30	Arrival & Check-in	Opening Ceremony Minhang Campus	Academic Lecture 1	Academic Lecture 2	Academic Lecture 3	Immersion Workshop (Science)	Social Exploration Activities
14:00-16:00		Campus Tour	Academic Workshop 1	Academic Workshop 2	Academic Workshop 3	Social Exploration Activities	
18:00-20:00		Welcome Reception	Cross-cultural Exchanges	Cross-cultural Exchanges			

Time/Date	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14
9:30-11:30	Social Exploration Activities	Academic Lecture 4	Academic Lecture 5	Immersion Workshop (Culture)	Closing Ceremony	Social Exploration Activities	Departure
14:00-16:00		Academic Workshop 4	Academic Workshop 5	Free Time	Visit to Companies		
18:00-20:00		Cross-cultural Exchanges	Cross-cultural Exchanges		Closing Reception		

Topic 1

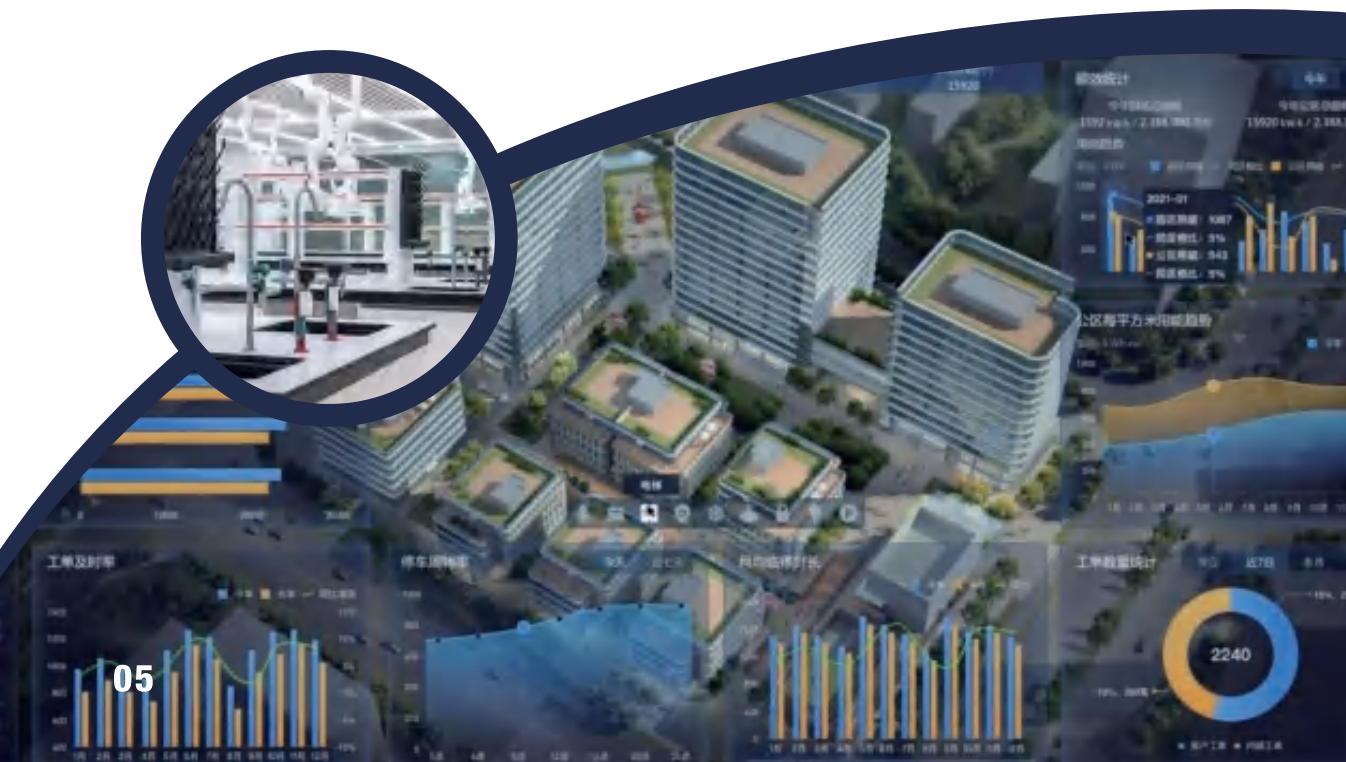
Smart Energy: Fuel the Green Future

Amidst global energy transition and climate change, smart energy has emerged as a key driver for sustainable development. As a leader in the global energy shift, China has made remarkable achievements in new energy, smart grids, and carbon capture technologies.

The topic of ***Smart Energy: Fuel the Green Future*** aims to create a high-end platform for young people worldwide to engage in cross-cultural exchanges and academic exploration. Through a diverse curriculum and a variety of practical activities, students will gain an in-depth understanding of cutting-edge technologies and trends in the energy sector, experience China's innovative practices in energy transition, and develop a global perspective and interdisciplinary thinking skills.

Key Features

- Cross-Cultural and Interdisciplinary Energy Exploration
- Insights into China's Frontier of Energy Practice
- Cultivation of Scientific Thinking and Innovation Skills





Leading Instructors



Nicolas ALONSO-VANTE

Chair Professor of
Shanghai Jiao Tong University



YANG Jia

Associate Professor of
Shanghai Jiao Tong University



ZHANG Chen

Associate Professor of
Shanghai Jiao Tong University



ZHAO Yao

Associate Professor of
Shanghai Jiao Tong University

Topic 2

Road to Tomorrow: AI Driving Lab for Future Engineers

The *Road to Tomorrow: AI Driving Lab for Future Engineers* is an international youth innovation program aims to cultivate students' technological innovation capabilities, cross-cultural communication skills, and business acumen through hands-on learning in cutting-edge technologies and cultural exchange. Participants will delve into the core technologies of autonomous driving, engage in practical projects, and explore the commercial applications of autonomous driving. Additionally, students will experience the historical and modern cultural fusion of Shanghai, a global metropolis.



Key Features

- Cutting-Edge Technology Experience
- Integration of Practice and Innovation
- Corporate Visits and Industry Insights

Leading Instructors



ZHANG Liwei

Mathematics Teacher of
Shanghai Jiao Tong University



HUANG Hongcheng

Associate Professor,
Ph.D. in Vehicle
Engineering at
Shanghai Jiao Tong University



David DELBARRE

Coordinator of Physics and
Chemistry Group of
Shanghai Jiao Tong University



ZHANG Lihui

Chinese Coordinator
for Humanities
and Social Sciences of
Shanghai Jiao Tong University



Hamza BOUKILI

Mathematics Teacher of
Shanghai Jiao Tong University

Topic 3

“RoboPaws” : Blue Tiger Innovation Camp

“RoboPaws” : Blue Tiger Innovation Camp summer STEM program designed for global high school students, offering an immersive platform for those passionate about AI and robotic dog technology.

Key Features

- Master Python programming for robotic control and sensor integration
- Implement AI computer vision/planning algorithms
- Develop problem-solving skills and physical robot debugging
- Cultivate teamwork via GitHub-based development and multicultural communication with peers from various countries
- Explore ethical implications of AI through debates.





Leading Instructors



BAN Yutong

Assistant Professor,
Shanghai Jiao Tong University



BI Youyi

Associate Professor,
Shanghai Jiao Tong University



Milias LIU

Assistant Teaching Professor,
Shanghai Jiao Tong University



ZHUANG Hanyang

Assistant Research Professor,
Shanghai Jiao Tong University



ZHANG Ailin

Assistant Teaching Professor,
Shanghai Jiao Tong University



QU Zijie

Assistant Professor,
Shanghai Jiao Tong University

Topic 4

VEX Robotics Design and Development

The VEX Robotics World Championship, known as the “Olympics” of robotics competitions, is the largest and most participated robotics competition project worldwide, representing the international highest standard of educational robotics competitions. Shanghai Jiao Tong University has achieved remarkable results in this competition.

VEX Robotics Design and Development Program focuses on robot structure assembly and programming control. During the assembly process, students will be guided on the proper use of tools and standard components. In the programming control section, the course will introduce the overall code framework of the robot and teach students how to write code for real-time robot control and autonomous task execution.

Key Features

- Academic Exploration and Interdisciplinary Integration
- Task-based robot competitions
- Application of Skills and Optimization of Tasks





Leading Instructors



Leng Chuntao (PhD/Professor)

Expert in intelligent control of robots and serves as the Chief Engineer of Student Innovation Center at Shanghai Jiao Tong University



ZENG Chifeng

Teaching CAD courses and mentoring the VEX robotics competition team at Student Innovation Center of Shanghai Jiao Tong University



YANG Zedai

Mentor for both the VEX RoboticsTeam and the Shanghai Jiao Tong University Racing Team



CHU Pengzhi

Associate Research Fellow and Assistant to the Director of the Student Innovation Center at Shanghai Jiao Tong University



XUE Wankun

Teaching and competition guidance in HarmonyOS application development and intelligent driving at the Student Innovation Center, Shanghai Jiao Tong University



Zhao Weiming

Engineer and Co-Chair of the AIGC Class at the Student Innovation Center of Shanghai Jiao Tong University

Topic 5

Understanding China: Business & Culture

Understanding China: Business & Culture Program offers a great opportunity for future business leaders to explore the business dynamics and cultural vibes in China. It aims to help participants to gain a deep understanding of the Chinese economy and culture throughout the two-week in-class coursework, company visits, social events and cultural tours.

Key Features

- Business insights from leading faculty of an FT No.5 business school
- Dialogue with executives and exclusive company visits
- Cultural immersion activity and Chinese language courses





Leading Instructors



QU Xi

Professor, Associate Dean,
Head of Economics Department
Shanghai Jiao Tong University



CAI Fengyan

Professor, Head of
Marketing Department
Shanghai Jiao Tong University



JIANG Ming

Associate Professor,
Academic Director of
Master of International Business
Shanghai Jiao Tong University



LU Lin

Professor, Head of
Organization Management
Shanghai Jiao Tong University



LIU Jialu

Assistant Professor,
Information Technology and
Innovation Department
Shanghai Jiao Tong University

Refund Policy

Full refund before May 31, 2025;

50% refund after May 31, 2025;

No refunds once the program starts.

Support Services

Faculty: Academic mentors, instructors, and program counselors.

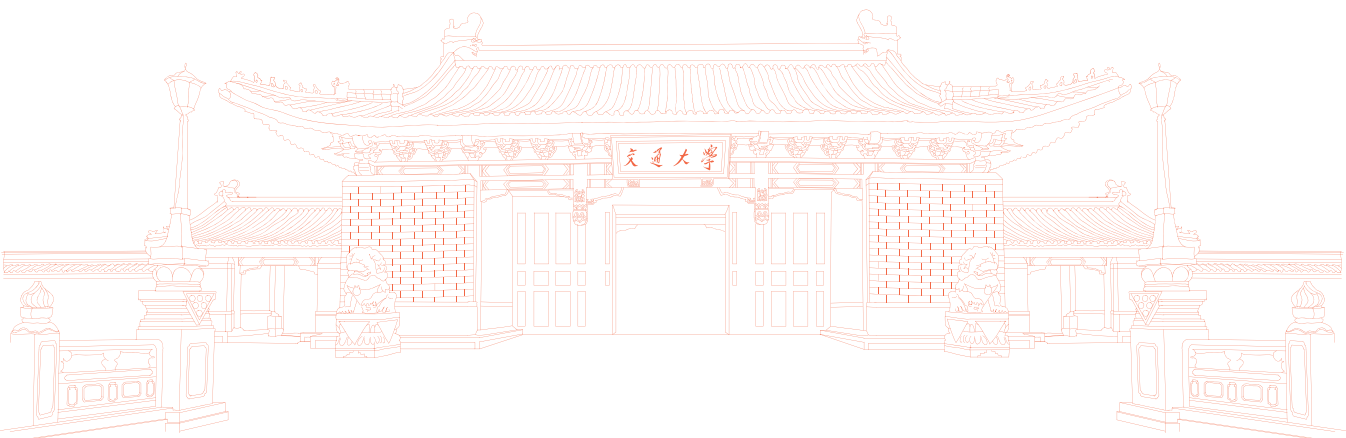
Safety: Security personnel and emergency protocols during the whole program.

Living: Comfortable accommodation and balanced meals with personal needs.

Certification & Awards

Certificate of completion: Issued to all students who finish the program.

Outstanding Participant Awards: Recognition for outstanding groups or individual, including certificates, prizes, and academic/college application support (e.g., recommendation letters).





Contacts

SJTU International Student Center

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