



清华大学药学院

School of Pharmaceutical Sciences, Tsinghua University

AMGEN® Foundation
Inspiring the Scientists of Tomorrow

PROGRAM HANDBOOK



**DISCOVER
YOUR
POTENTIAL**

AN UNDERGRADUATE SUMMER RESEARCH
PROGRAM IN SCIENCE AND BIOTECHNOLOGY



...

Organizer:

School of Pharmaceutical Sciences,
Tsinghua University





TSINGHUA UNIVERSITY AMGEN SCHOLARS PROGRAM

JUNE 8TH - AUGUST 6TH, 2026
TSINGHUA UNIVERSITY, BEIJING, CHINA



An Undergraduate Summer
Research Program in Science
and Biotechnology.

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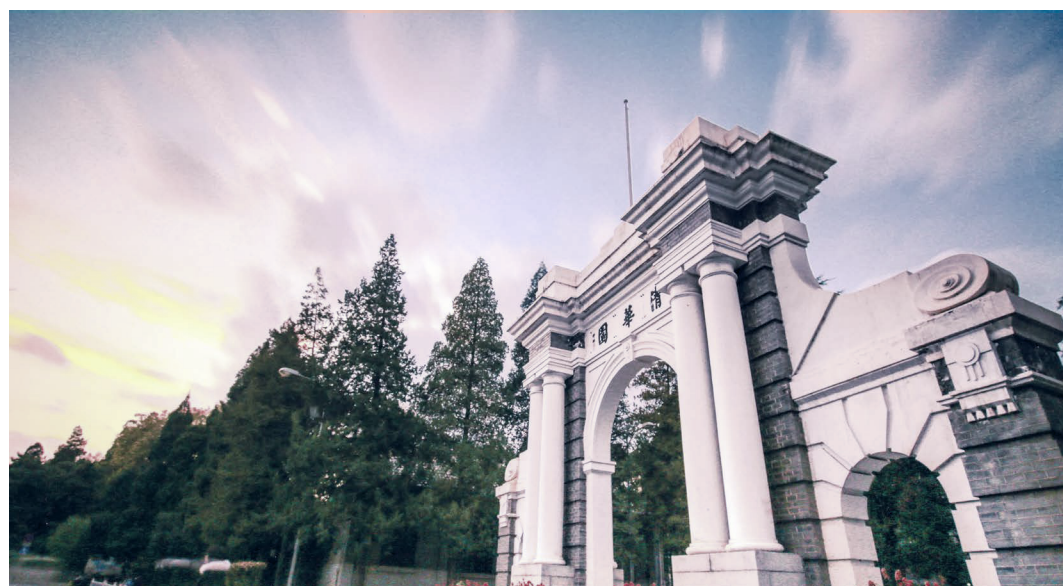
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1. Tsinghua University

1.1 Overview

Established in 1911, Tsinghua University is one of China's most renowned academic and research institutions and consistently ranked as a top university globally. Its profound academic legacy and outstanding research capability have made Tsinghua one of China's major powerhouses for talent development and cutting-edge work in science and technology. At present, Tsinghua has 49 schools and 54 departments with 3,485 faculties in science, engineering, law, medicine, management, education and art, etc. as well as over 48,739 registered students studying on campus. Among Tsinghua's numerous outstanding alumni are renowned scholars, eminent entrepreneurs, industry pioneers and state leaders including China's current President, Xi Jinping and former President, Hu Jintao.

Tsinghua also aspires to create global impact by actively developing strategic partnerships and collaborations with the world's prestigious universities, organizations and business enterprises. Some recent high-profile programs include the Schwarzman College by Stephen A. Schwarzman (Blackstone), Global Innovation eXchange Institute (GIX) in Seattle US sponsored by Microsoft, the Lab for Lifelong Learning at Tsinghua University (TULLL) sponsored by the LEGO Foundation, the Tsinghua-BP Clean Energy Research and Education Center, the Global Health Drug Discovery Institute (GHDDI) co-founded by the Gates Foundation, and the IDG/McGovern Institute for Brain Research. Through more than one hundred years of development, as well as with its new emphasis on reform and innovation, Tsinghua University bestowed upon itself a unique confidence and strength. With a broader global vision, higher standpoint, and more effective actions, Tsinghua will advance its development as a world-class university with Chinese characters.



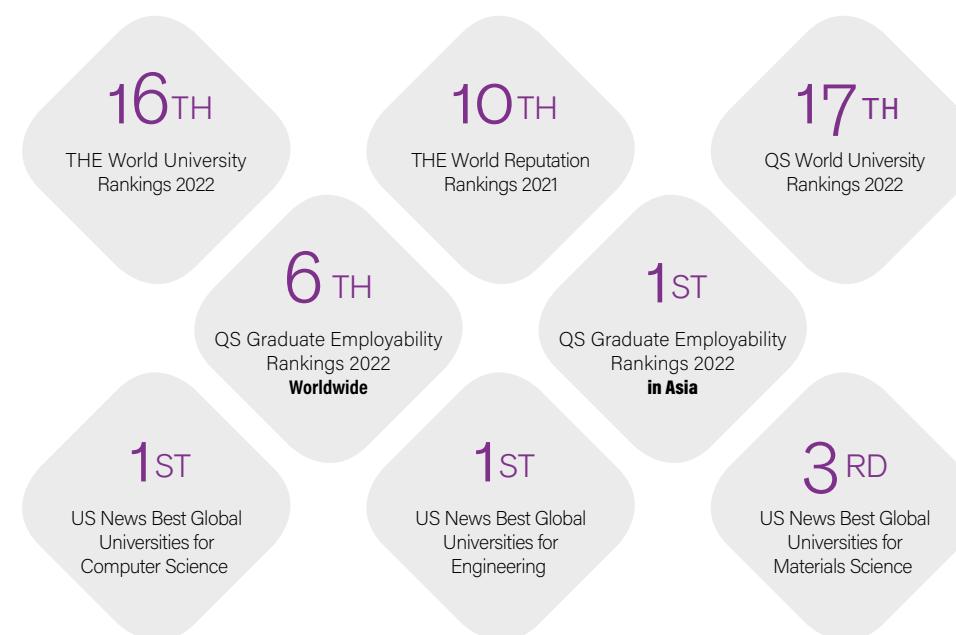
1.2 History

Tsinghua University was established in 1911 under the name "Tsing Hua Imperial College". The university section was founded in 1925 and undergraduates were then enrolled.

During the War of Resistance against Japanese Aggression, Tsinghua University moved to Changsha in 1937, then to Kunming in 1938, and was renamed the National Southwest Associated University. When the war ended, Tsinghua returned to its original site at Tsinghua Garden in Beijing in 1946.

Since 1978, Tsinghua has gradually expanded and established more departments in the sciences, economics, management, and the humanities. In 1985, the School of Continuing Education was established. In the last decade, the university has made advances in the refinement of academic disciplines, faculty development and research. Tsinghua is now a comprehensive research university covering disciplines in science, engineering, literature, art, history, philosophy, economics, management, law, education, and medicine.

1.3 Among the top research universities in the world



1.4 Research innovation

With the goal of leading global fundamental research, serving core national development needs, and connecting academic research with talent cultivation, Tsinghua University is dedicated to promoting scientific innovation and addressing global challenges.

◆ Recognition

In 2018, the faculty of Tsinghua University won 24 national awards, including one first prize of the State Natural Science Awards and three first prizes of the State Scientific and Technological Progress Awards. In addition, Tsinghua faculty won 38 prestigious international awards. Twelve Major Tsinghua Projects were approved by the National Social Science Fund of China, while a total of 142 individuals from the University were selected for prestigious programs.



◆ Innovation

Tsinghua is dedicated to comprehensively integrating innovation and entrepreneurship education into its talent training system. Tsinghua provides its students with an integrated education platform for creativity, innovation and entrepreneurship.

- The Student Future Innovation Group Inspires creativity: it encourages students to build teams across different disciplines and grades, and initiate their own innovation projects.
- The iCenter serves technological innovation: it is the largest campus “maker” space in the world.
- The changplus and x-lab support entrepreneurship: they help startups gain market resources, and help them seek professional guidance from off-campus tours.



◆ Research Education

At Tsinghua, all students, including undergraduates, have rich resources and opportunities to transform their research ideas into reality. The Tsinghua “TOP OPEN” undergraduate overseas academic research program enables students to contact overseas institutes independently, based on their own academic interests, to refine their research projects and to have the university fund their research. In 2018, 420 students visited 104 overseas research universities and institutes through this program. Up to today, the university has signed university cooperation agreements with 285 universities and research institutes in 50 countries. Last year, more than 16,000 faculty and students went abroad for visits and exchanges.



1.5 International study and program

Every summer, Tsinghua offers more than 10 international summer programs for students from across the world. Summer program courses range from subjects such as computer science, engineering, physics, green energy, law and economics. International students taking part in the summer programs can broaden their global perspective and come into direct contact with Chinese culture, society and technology.

2. School of Pharmaceutical Sciences at Tsinghua University

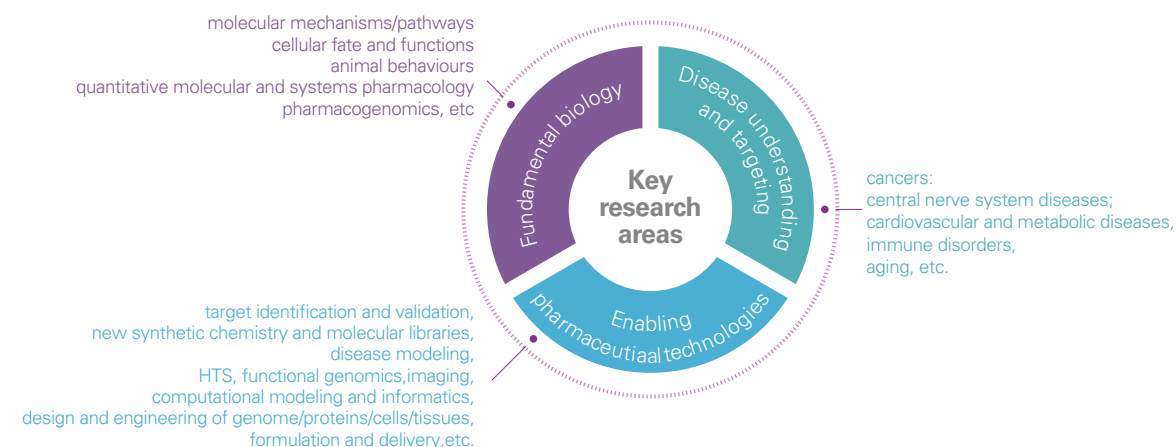
2.1 Overview

Established in 2015, Tsinghua University School of Pharmaceutical Sciences (SPS) is dedicated to educate new generations of pharmaceutical researchers and professionals, and to conduct innovative research to address the world's significant health issues. Leveraging Tsinghua's strengths in related disciplines such as chemistry, chemical engineering, material science, medical engineering and information technology, SPS is committed to advancing understanding of unsolved diseases and translating research discoveries and technological developments into novel medicines and therapeutic approaches. At SPS, we endeavor to lead innovations for China's nascent biomedical industry and make important contributions to human health on the global level.



2.2 A focus on cutting-edge biomedical research

SPS is at the forefront of pharmaceutical sciences, investigating various therapeutic approaches, including small molecules, biologics, gene therapy, cell therapy and medical devices. It seeks to drive drug discovery through major advances in emerging fundamental biology with translational potential, enabling pharmaceutical technologies, and disease understanding and targeting, all highly interdisciplinary areas.



SPS has world-class faculty engaging in innovative pharmaceutical research. 33 faculty members all possess a strong educational background and track record of innovative research in leading universities and institutes around the world. Many are recognized by the national science community with high honors. Several faculty members also bring significant industry R&D experience from previous careers at major multinational pharmaceutical companies. Moving forward, it plans to significantly expand its faculty team in the coming years in order to broaden key research areas and enhance overall research capabilities. Together, we will create vital knowledge and enabling technologies, pushing translational science into new medicine and treatments.



2.3 An endeavor to build advanced translational platforms

Translational medicine is at the core of SPS' development plans. Supported by our University and in partnership with notable organizations and corporations, we have established several key platforms to expedite the process from bench to bedside, including Pharmaceutical Technology Center and early-stage incubator and seed fund. SPS seeks to cooperate with partners to create an integrated ecosystem for global pharmaceutical innovation and, ultimately, impact human health.

A recent influential example is the Global Health Drug Discovery Institute (GHDDI), jointly founded by Tsinghua University, the Bill & Melinda Gates Foundation, and the Beijing Municipal Government. GHDDI aims to develop a transformative platform with exceptional biomedical R&D capabilities to address some of the most pressing disease challenges faced by developing countries.

2.4 A place to cultivate future pharmaceutical scientists

At SPS, we aim to prepare students to become future leaders in biomedical research and pharmaceutical R&D through excellent education. To help students build a comprehensive knowledge foundation, we focus the teaching of pharmacology, biology, chemistry, fundamental medical science, engineering, and information technology. We offer a broad-spectrum curriculum that aligns with global top universities. Our students experience a traditional classroom environment supplemented with cross-disciplinary projects, internships, study abroad, and laboratory research, to better prepare them to carry out innovative research and solve unmet biomedical challenges in the future.

In addition to providing practical coursework that requires students to conduct research in the lab starting their sophomore year, we encourage students to visit and learn from world-renowned pharmaceutical enterprises and academic institutes during the summer term, at home and abroad.

3. Amgen Foundation

The Amgen Foundation seeks to advance excellence in science education to inspire the next generation of innovators, and invest in strengthening communities where Amgen staff members live and work.

The Foundation, established in 1991, is an integral component of Amgen's commitment to dramatically improve people's lives. The Foundation is the principal channel for Amgen's corporate philanthropy. To date, the Foundation has contributed more than \$300 million to local, regional and international nonprofit organizations that reflect Amgen's core values and complement the company's dedication to impacting lives in inspiring and innovative ways.

The Foundation places a strong emphasis on strengthening science education and is committed to investing in meaningful, evidence-based initiatives that make a difference at the local, national, and international levels. To that end, the Amgen Foundation has contributed nearly \$150 million to advancing science education programming globally.

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Inspiring the Scientists of Tomorrow



4. Tsinghua Amgen Scholars Program

4.1 Amgen Scholars Program

The Amgen Scholars Program aims to open the door to research opportunities at 26 host institutions for undergraduates from any four-year college or university in a given region.

Made possible through a commitment of more than \$80 million since 2006, Amgen Scholars allows undergraduates from across the globe to participate in cutting-edge research opportunities at world-class institutions. 26 premier educational and research institutions across the U.S., Europe, Asia, Australia and Canada currently host the summer program.

Undergraduate participants benefit from undertaking a research project under top faculty, being part of a cohort-based experience of seminars and networking events, and taking part in a symposium in their respective region where they meet their peers, learn about biotechnology, and hear from leading scientists.

Australia: Open to students in Australia, New Zealand, and Oceania

Europe: Open to students in Europe

United States: Open to U.S. students

Asia: Open to students in Asia

Canada: Open to Canadian students

AMGEN® Scholars Program



Host Institutions



4.2 2026 Tsinghua Amgen Scholars Program

The Amgen Scholars Program at Tsinghua is an 8-week faculty-mentored residential summer research program to provide undergraduate students the opportunity to conduct research in a lab environment, engage in cutting-edge research experience, and learn more about biotechnology and drug discovery.

Tsinghua Amgen Scholars will join a faculty's laboratory and involve in one or more specific research projects. Each Scholar will be paired with a faculty member as his/her mentor. As a member of the lab, the Scholar will have the opportunity to participate in a series of academic activities, such as weekly lab meetings, group discussions, presentation training, and campuswide seminars of interests. In addition, other non-academic gathering will be organized, such as networking events, Chinese and Beijing culture exploration, etc.



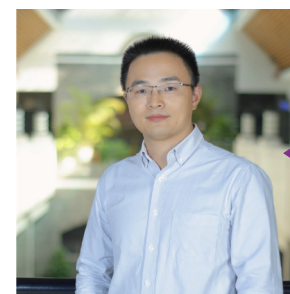
4.3 Symposium

A significant component of the summer program is a symposium hosted by The University of Tokyo where students hear firsthand from leading scientists working in industry and academia. The symposium provides students with a valuable opportunity to discuss their research, learn about drug discovery and development, and network with other Amgen Scholars from all over Asia and the world.

5. Faculty Mentors



Ligong CHEN, Ph.D



Haidong TANG, Ph.D

Juanjuan DU, Ph.D



Yefeng TANG, Ph.D



Xiangyu LIU, Ph.D



Yinqing LI, Ph.D



Xia WANG, Ph.D



Jian WANG, Ph.D



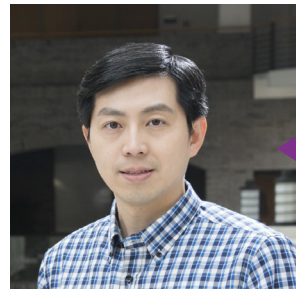
Lei LU, Ph.D



Bailong XIAO, Ph.D



Yu RAO, Ph.D



Zongyi YI, Ph.D



▪ Calvin Shevchenko

Hi there, I'm Calvin Shevchenko! Despite my Ukrainian-sounding name, I am fully Indonesian. I am a second-year Life Sciences undergraduate at the National University of Singapore, specialising in Biomedical Sciences and minoring in Bioinformatics. My current research interest lies in molecular and cell biology, which led me to work on directed evolution of bridge RNA recombinases, a novel genome editing tool, last semester. I am drawn to understanding the molecular systems that underlie all of life. Outside the lab, I am keen on all things musical. I sing in an acapella group, play the drums, and do sound engineering on the side. This summer, I look forward to developing my research skills, learning from the brilliant researchers at Tsinghua University, and hopefully adding something meaningful to the work here.



▪ Agnirup Chakraborty

Hello! I come from the city of Kolkata in India. Currently, I am a third-year medical student at All India Institute of Medical Sciences, Kalyani. I have been interested in research right from my high school days, and the AMGEN Scholars Programme at Tsinghua University has provided me with a great exposure. I have strong interests in fields such as molecular biology, neurobiology, and antimicrobial resistance. I enjoy working in interdisciplinary domains collaborating with other disciplines of research, and very willing to contribute substantially towards development of medical science.

Outside academics, I am very interested in music, literature, history and philosophy, and very curious to know about new things. I'm truly excited to be part of this program and I look forward to contributing to the research while learning from the best of mentors along with everyone!



▪ Alan Aimagambetov

Hello! My name is Alan Aimagambetov. I'm from Kazakhstan. I'm pursuing a Bachelor's degree in Biological Engineering at the al-Farabi Kazakh National University, though I'm currently studying at the Jeonbuk National University, Jeonju, Republic of Korea. Besides of Korea, I've had an academic mobility to the University of Castilla la Mancha, Toledo, Spain. My primary affiliation is the Sustainability of Ecology and Bioresources Research Institute at the al-Farabi Kazakh National University, where I'm employed as a Research Assistant. In our lab, I have had an opportunity to work on four projects related to the sustainable processing of coal and copper ore. I worked with several spectroscopic techniques, HPLC, GC-MS, and thermogravimetric methods. My hobbies are fishing, which I like for adventures, and numismatics, which teaches me the history of different countries and cultures. I'm really interested in getting an invaluable experience and new skills at Tsinghua University.



▪ Hyoseo Kim

Hello! My name is Hyoseo Kim, and I am a South Korean student in my sixth year at the College of Pharmacy, Seoul National University. My academic interests lie in translational immunology, with a particular focus on oncology and autoimmunity. I have gained hands-on research experience in an immunology laboratory, which has deepened my passion for exploring how immune mechanisms contribute to disease and therapy. I genuinely enjoy working alongside people from diverse backgrounds, believing that great science happens when different perspectives come together, and I am always eager to learn from those around me. Outside of the lab, I am an active member of my university's volleyball team, and I love spending time in nature and reading. I am truly excited to meet researchers and students from around the world and look forward to contributing to meaningful research while growing personally and professionally..



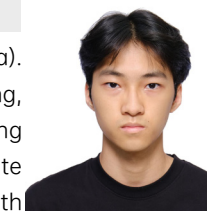
▪ Rebecca Tan Tjia Qi

Hello! My name is Rebecca Tan, and I am a Singaporean studying Chemistry at the National University of Singapore. I am in my third year of university, and I am also studying for minors in Public Health and Forensic Science. I am interested in biomimetic chemistry and learning how to apply synthetic chemistry and catalysis for biomedical applications. In my free time, I enjoy hiking, going to the gym, and eating good food :D I also enjoy travelling and experiencing different cultures! I'm honoured to be part of this program, and I look forward to learning new things and contributing to the research.



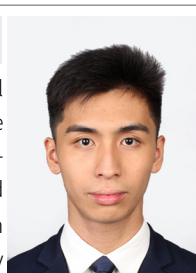
▪ Yeung Man Tak

Hi, I'm Yeung Man Tak Tevin. I was born and raised in Hong Kong (SAR of China). Currently in my third year studying biomedical sciences at the University of Hong Kong, my research interests lie in oncology, immunology, and healthcare technology. Having exposure to stem cell and immunology research in different institutions, I am passionate about experiencing diverse research cultures and environments and collaborating with world-leading scientists. Apart from academics, I enjoy exercising or running. Having completed my first marathon in January 2026, I'm excited to explore my possibilities by trying new activities. I am truly honored to join the Amgen Scholar Program in Asia and look forward to contributing to one of the prominent research teams at Tsinghua University, as well as meeting many new friends.



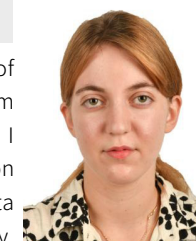
▪ Leong Jin Hui

Hello there! My name is James Leong, and I was born and raised in Malaysia, a wonderful country known for its diverse culture and incredible food. I am currently an undergraduate student studying Biotechnology at Universiti Malaya, with a keen interest in nanobiotechnology and biomanufacturing. Taking a sneak peek into my personal life, I love travelling and meeting new people from all around the world. It's truly a great honour to be selected as an Amgen Scholar, and I look forward to meeting all of the amazing people at Tsinghua University this summer.



▪ Evangelia Nikolaraki

Hello! I'm Evangelia Nikolaraki from Greece. I studied Biology at Aristotle University of Thessaloniki before pursuing an MPharm degree at European University Cyprus, where I am now in my fourth year, with experience across pharmacology labs and clinical settings. I believe the most important therapeutics of the next decade will emerge from the intersection of mechanistic immune biology, programmable molecular engineering, and multi-omics data integration. Thus, my research interests span RNA editing technologies, cancer immunology, and computational target discovery, unified by one question: how do we translate mechanistic precision into therapies that reach patients? Outside the lab, I'm an avid Financial Times reader, a stock market enthusiast, and a traveler who has explored over ten countries across Europe, Asia, and the Middle East. I also edit for my university's medical journal. I'm here to find my doctoral question and look forward to learning from and working with everyone in Beijing.



▪ Tey Yee Han

Hello! I am Tey Yee Han, a Singaporean currently studying Biological Sciences as a third year student at Nanyang Technological University. I am deeply interested in biomedical sciences, especially Omics, and I've been exploring research opportunities around the world in pursuit of one big question: Are Omics platforms sufficiently mature to fully capture disease biology? Beyond the lab, I enjoy running and love trying new sports such as skiing! I am excited to be here as part of the Amgen Scholars Program, and I look forward to learn from the talented researchers at Tsinghua University.



▪ Wenhao Liu

Hello! My name is Wenhao Liu, and I'm a Chinese citizen from Chengdu, a city in southwestern China. I'm a second-year Pharmaceutical Sciences student at Tsinghua University. I have developed a strong curiosity for neuroscience and stem cell biology, and I have gained hands-on research experience in an adult stem cell laboratory, focusing on the effects of gut microbial metabolites on the differentiation of hepatic progenitor cells into hepatocytes. I enjoy working in focused, independent research environments, but also value small-team collaboration. I thrive in a supportive, dynamic atmosphere where people embrace new ideas and are not afraid to take bold risks. Outside of academics, I play volleyball and ultimate frisbee, which have taught me teamwork, resilience, and openness to new ideas. I'm truly excited to be part of the program and look forward to working closely with distinguished scientists and collaborating with fellow scholars from around the world.



▪ Baoyi Huang

Hello! My name is Baoyi Huang, and I am currently an undergraduate student in Biomedical Engineering at the National University of Singapore. I have a strong interest in the intersection of biomedical science and machine learning, particularly in applying data-driven approaches to clinical and biological problems. I have gained hands-on experience through research in explainable machine learning for neurological disorders, polymer-based molecular separation, and clinical data processing during internships. I enjoy working in interdisciplinary and international environments, and I have collaborated with teams across academia and industry, including pharmaceutical project management and clinical research settings. Outside of academics, I enjoy building practical systems and tools, such as automation pipelines and embedded health monitoring devices, which strengthen my problem-solving and engineering mindset. I am truly excited to be part of this practicum and look forward to contributing to meaningful research while learning from inspiring scientists around the world.



▪ Cao Kim Chau

Hi everyone! I am Cao Kim Chau, but you can call me Jocelyn. I am a junior Pharmacy student at the University of Medicine and Pharmacy at Ho Chi Minh City, Vietnam. My primary research curiosity lies at the intersection of medicinal chemistry and computational science. I am particularly passionate about applying technological approaches, such as Computer-Aided Drug Design (CADD), to discover and develop next-generation therapeutics. Outside the lab, I find joy in being an observer of life through the lens of a film camera. Capturing raw, unrepeatably moments reminds me of the patience and precision needed in scientific exploration. I am also a big foodie who loves hunting for hidden traditional gems.

It is a huge honor to be part of the 2026 Tsinghua Amgen Scholars Program. I am coming in with a blank cup mindset, ready to learn from top-tier researchers and connect with fellow scholars from all over the world. I am really looking forward to making friends with everyone!



7. Life on Campus

7.1 Library

The Tsinghua University Library was established in 1912, and is now composed of the Main Library (also called Old Library) and six branch libraries including the Humanities and Social Sciences Library, the Art Library, the Finance Library, the Law Library, the Economics & Management Library and the Architecture Library. The Library system owns more than five million books and other printed material and has a comprehensive digital system to ensure convenient access to resources anytime, anywhere.

Opening Hours in Summer Vacations:

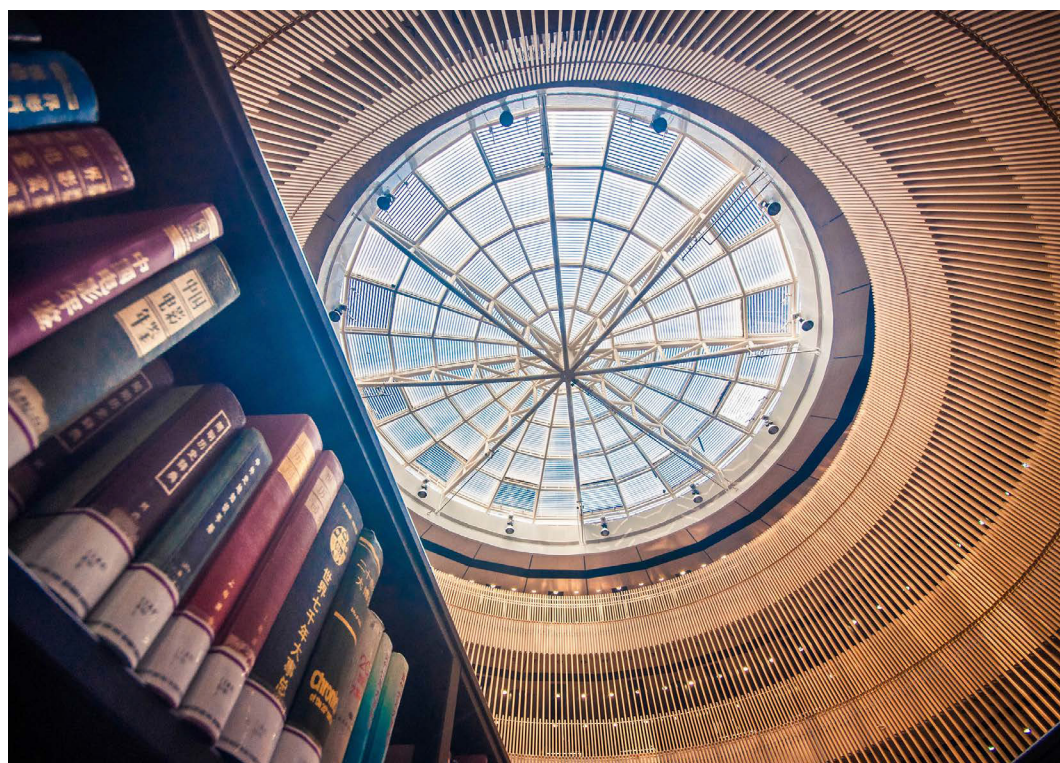
For Main Library (Old Library) : 7:30-22:30 From Monday to Sunday

For Yifu Library (New Library) : 9:00-17:00 From Monday to Sunday

For Mochtar Riady Library (North Library): 9:00-17:00 From Monday to Sunday

Website: <http://eng.lib.tsinghua.edu.cn/default.html>

** For holidays and vacations, please refer to the special notice.*



7.2 Art Museum

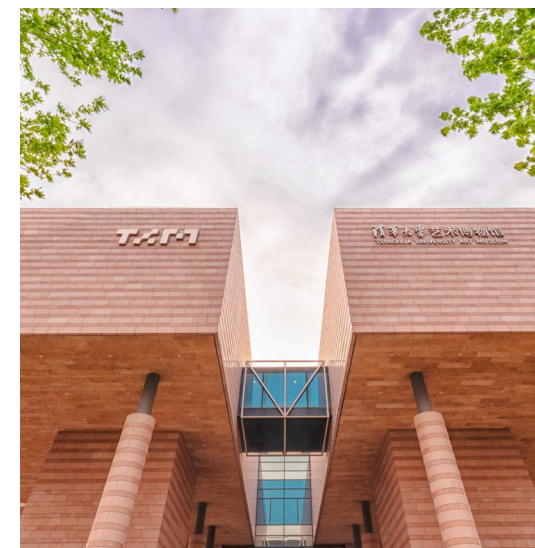
Officially opened in 2016, the Tsinghua Art Museum is the largest university museum in China and has attracted more than one million visitors since its opening. The museum has over ten exhibition halls and hosts exhibits from China and across the world. Its comprehensive collection includes more than 13,000 art objects, including six major categories: painting and calligraphy, embroidery, porcelain, furniture, bronzeware and diverse artwork.

Opening Hours: **9:00-17:00** (No entry after 16:30)

Tuesday to Sunday; closed Mondays

(Except for statutory holidays)

Website: <http://www.artmuseum.tsinghua.edu.cn/en/>



7.3 Gymnasium

The Tsinghua physical education base on the principle of Education as priority, access to all, pursue of Excellence. Tsinghua has not only inherited from the achievements of last decades but also integrated with emerging viewpoints and methods resulting from changes of mentality and values. Sport is nowadays an essential component of Tsinghua education as well as one element of national strength.

Stadium and Playground

East Athletic Field, West Stadium, Zijing Athletic Field

Open Hours: Access all day

Gymnasium

Open Hours: 06:30-22:00

Outdoor Swimming Pool

Open Hours: 06:30-22:00

Natatorium

Open Hours: 06:30-22:00

Badminton Hall

Open Hours: 06:30-22:00

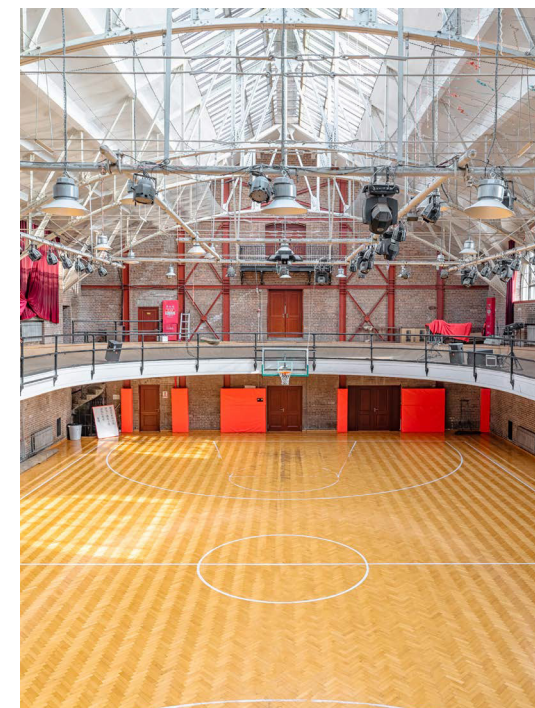
Table Tennis Gym

Open Hours: 06:30-22:00

Tennis Court

Open Hours: 08:00-22:00

Website: <http://www.thsports.tsinghua.edu.cn/publish/sportsen/index.html>



7.4 Transport

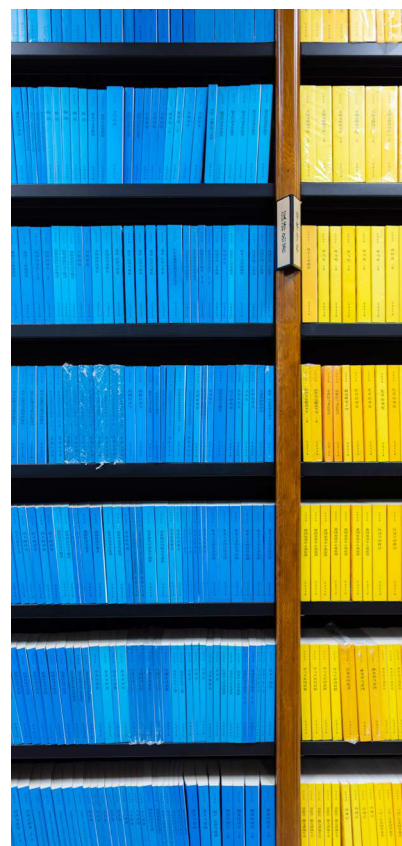
◆ Campus shuttle bus

Timetable: 7:40, 9:20, 13:00, 14:50 (Only on workdays)

You can check “清华校园巴士” mini program on Wechat to see the timetable.

◆ Subway Stations nearby

- **Yuanmingyuan Park Station:** Line 4, near the West Gate, 15-20 mins to walk to the School of Pharmaceutical Sciences (Medical Science Building)
- **Tsinghua East Road Xikou Station:** Line 15, near the East Gate, 15-20 mins to walk to the Tsinghua Zijing International Students Apartment
- **Wudaokou Station:** Line 13, near the Main Entrance, 15-20 mins to walk



7.5 Map of Tsinghua University

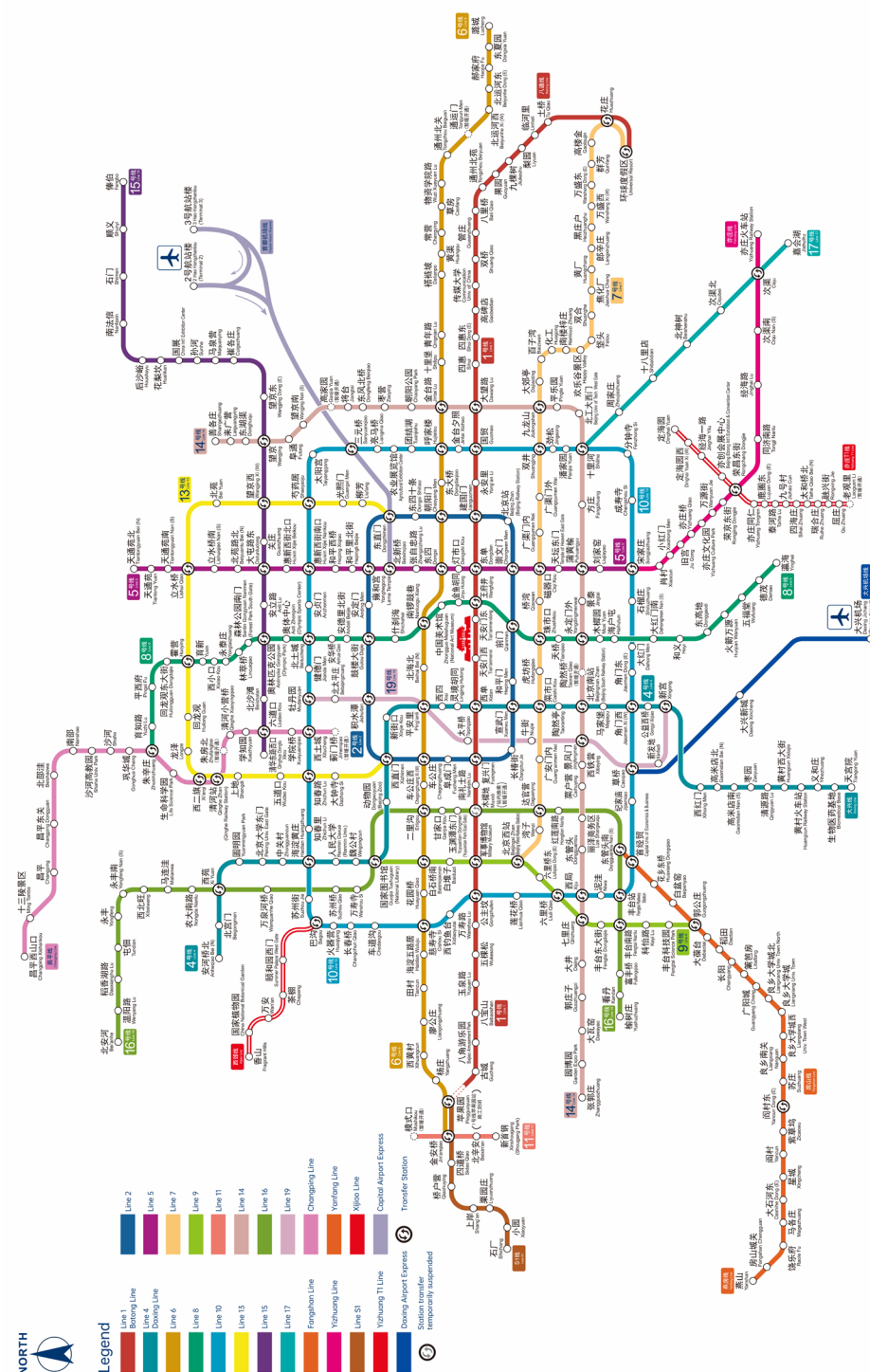




JUNE 8TH - AUGUST 6TH, 2026
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AMGEN SCHOLARS PROGRAM**

7.6 Beijing Rail Transit Lines



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