

***Seeking Truth,
Pursuing Innovation***

ZHEJIANG UNIVERSITY



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Image credits: ZJU staff and students



2025 OVERVIEW

LEADING THE WAY SINCE 1897



| 2025 OVERVIEW

1897

Qiushi Academy, the forerunner of Zhejiang University (ZJU), was founded to be a modern academy of higher education in China.



1928

The enlarged school was renamed National Chekiang University. It was praised as one of the four most prominent universities in the Republic of China.

1936

Professor CHU Kochen became the president of National Chekiang University and would leave a profound imprint. Addressing new students in 1936, he posed two questions: "First, why do you come here? Second, who do you want to become after graduation?"

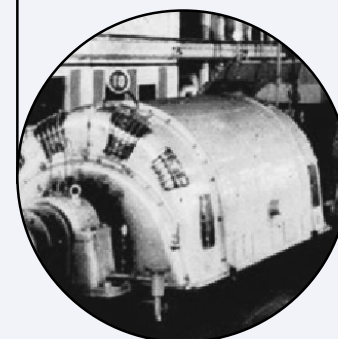


1944

British sinologist Dr. Joseph Needham, FRS, hailed the University as "Cambridge of the East". He was impressed by the faculty's dedication to research even during the tribulations of war.

1958

ZJU scientists designed China's first dual inner water-cooled turbo-generator.



1998

The current ZJU was re-established through the merger of four independent universities, which had been split during the institutional restructuring period in the 1950's.

2017

ZJU celebrated its 120th anniversary. In the same year, ZJU broke into world's top 100 universities for the first time (QS 2018) and was also selected for the national "Double First-class Initiative".

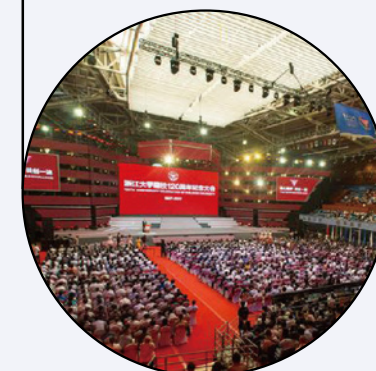
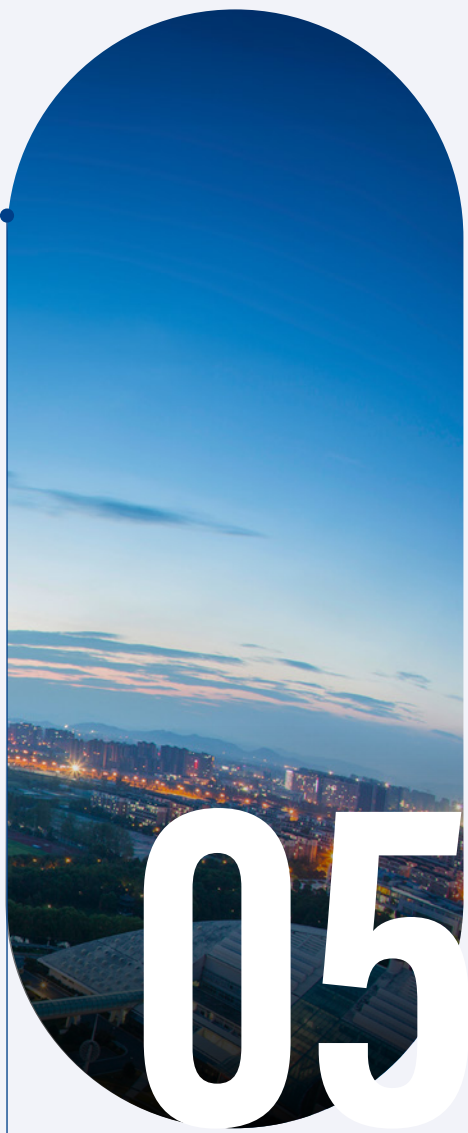
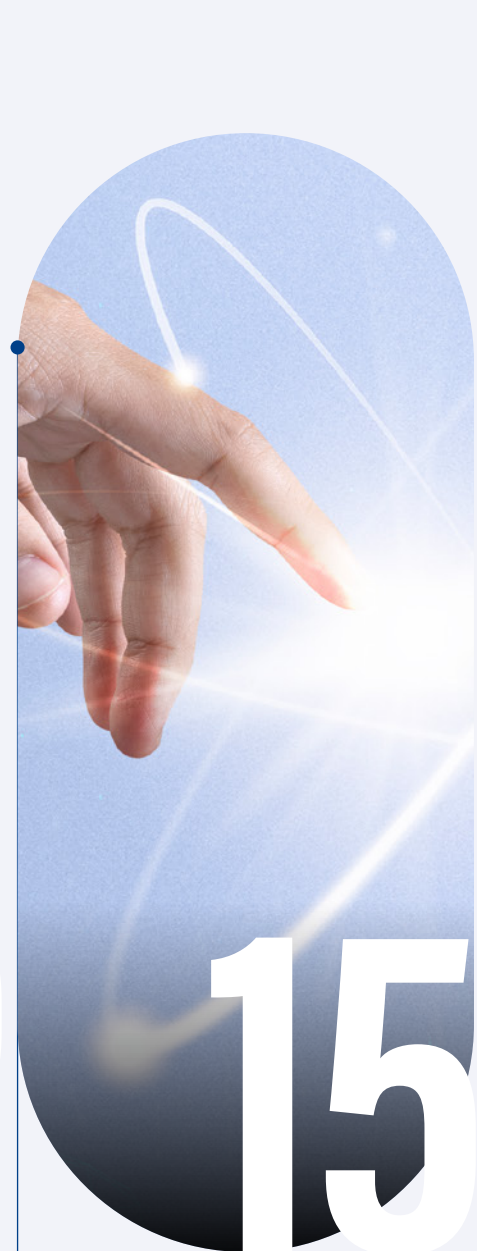


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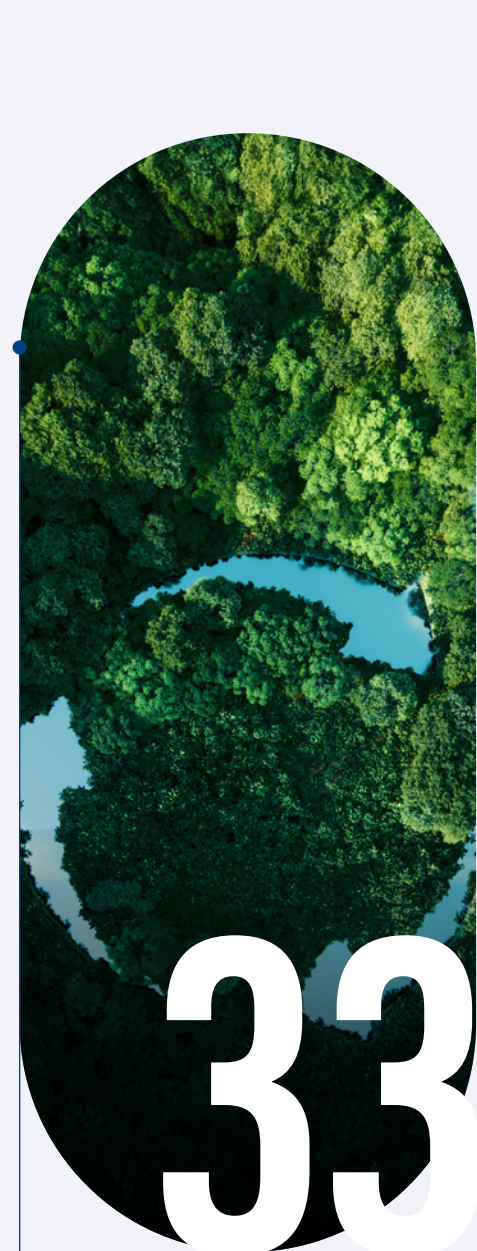
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7

AFFILIATED HOSPITALS

28,000+

UNDERGRADUATE STUDENTS

41,000+

GRADUATE STUDENTS

4,600+

FACULTY MEMBERS

#3

IN CHINA
ACADEMIC RANKING OF WORLD
UNIVERSITIES 2024

#47

IN THE WORLD
QS WORLD UNIVERSITY
RANKINGS 2025

REDEFINING HIGHER EDUCATION

As one of the most prestigious research and learning institutions in the country, ZJU creates a dynamic educational experience that empowers students with an international perspective, global competence, and social responsibilities – attributes that are essential for enabling our graduates to make a meaningful impact on the world.

8.19M+

VOLUMES IN
TOTAL LIBRARY
COLLECTION

~70

COLLABORATIVE
PROGRAMS

246

STUDENT
ASSOCIATIONS

111

UNDERGRADUATE
PROGRAMS

580+

GLOBAL STUDY
PROGRAMS

#71

TIMES HIGHER
EDUCATION GLOBAL
EMPLOYABILITY
UNIVERSITY
RANKINGS 2025

7 FACULTIES 40 SCHOOLS & DEPARTMENTS

Forty colleges, schools and departments under 7 faculties offer students boundless opportunities to pursue their passions. With an education that highlights innovation, interaction and interdisciplinarity, ZJU prepares students for complex global problems of today and tomorrow.

ARTS AND HUMANITIES

- School of Literature
- School of History
- School of Philosophy
- School of International Studies
- College of Media and International Culture
- School of Art and Archaeology

SOCIAL SCIENCES

- School of Economics
- Guanghua Law School
- College of Education
- School of Management
- School of Public Affairs
- School of Marxism

SCIENCE

- School of Mathematical Sciences
- School of Physics
- Department of Chemistry
- School of Earth Sciences
- Department of Psychology and Behavioral Sciences

ENGINEERING

- School of Mechanical Engineering
- School of Materials Science and Engineering
- College of Energy Engineering
- College of Electrical Engineering
- College of Civil Engineering and Architecture
- School of Chemical and Biological Engineering
- Ocean College
- School of Aeronautics and Astronautics
- Department of Polymer Science and Engineering

INFORMATION TECHNOLOGY

- College of Optical Science and Engineering
- College of Information Science and Electronic Engineering
- College of Control Science and Engineering
- College of Computer Science and Technology
- School of Software Technology
- College of Biomedical Engineering and Instrument Science
- College of Integrated Circuits

AGRICULTURE, LIFE AND ENVIRONMENT SCIENCES

- College of Life Sciences
- College of Biosystems Engineering and Food Science
- College of Environmental and Resource Sciences
- College of Agriculture and Biotechnology
- College of Animal Sciences

MEDICINE AND PHARMACEUTICAL SCIENCES

- School of Medicine
- College of Pharmaceutical Sciences

STUDY AT ZJU

At ZJU, we adopt a boundary-crossing approach to deliver a student-centered education that prioritizes individual growth and development. Our aim is to inspire critical thinking and nurture global citizenship through the integration of “four learning spaces”. These spaces include cross-disciplinary classroom experiences, on-campus activities, social practices, volunteer work, and exchange programs. The University requires all undergraduates to take a three-credit cross-disciplinary module, and trains PhD students in multi-disciplinary centers of excellence such as “Engineering plus X” and “Agriculture plus X”. Through cross-disciplinary courses and a diverse range of learning opportunities that extend beyond traditional classroom settings, we believe that our students will be well-equipped to make positive contributions to society and succeed in an increasingly interconnected world.

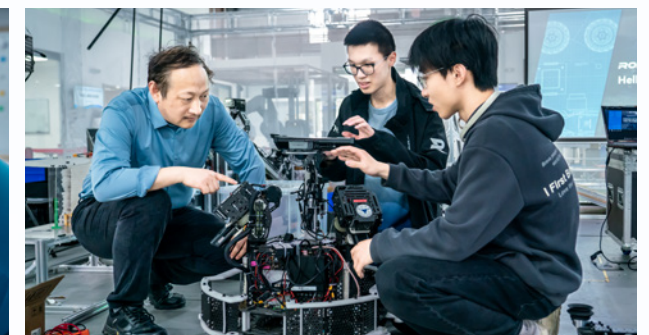
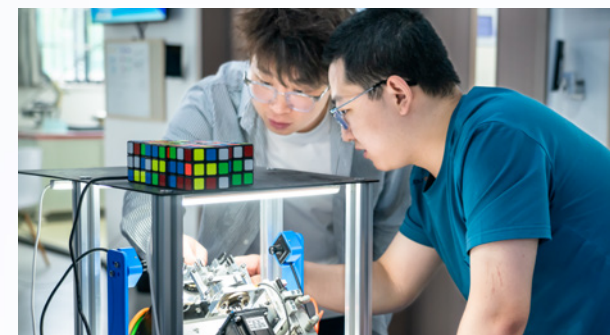
NEXT-GEN INTERDISCIPLINARY EDUCATION

Zhejiang University has launched the groundbreaking “AI+X” micro-major program with four East China peers (Fudan, Nanjing, Shanghai Jiao Tong, and USTC), delivering a robust curriculum that merges AI fundamentals with cross-disciplinary applications. Through partnerships with global tech giants and AI experts, ZJU integrates hands-on learning—hackathons, industry-designed courses, and collaborative workshops—to equip students with skills for real-world problem-solving.



ROBOTICS HUB: BREEDING GROUND FOR CHAMPIONSHIP TEAMS

ZJU's Innovation Practice Base of Robotics and Intelligent Equipment provides a 1,000-square-meter interdisciplinary hub equipped with adaptable competition spaces, mechanical workshops, and collaborative facilities, enabling students to bridge theoretical knowledge with hands-on engineering projects. By fostering cross-disciplinary teamwork in fields ranging from waste management to autonomous robotics, the base has become a catalyst for innovation, exemplified by student teams securing 7 international awards, 34 national honors, and 35 provincial accolades in 2024 alone.





INTERNATIONAL LEARNING & RESEARCH INITIATIVES

Since 2022, the University has been organizing the SDG Global Summer School, each year attracting around 1,000 students from over 80 countries and regions. Through interdisciplinary courses led by world-class professors from ZJU and its partner institutions, participants engage with critical topics such as carbon neutrality, inclusive development, smart cities and big data.



In 2024, ZJU launched the Global Research Immersion Program for Young Scientists (GripS) in collaboration with universities in the Yangtze River Delta region, aiming to enhance in-depth exchanges and collaboration between domestic and international students through joint research internships in top laboratories.

COMPETITION-FUELED INNOVATION

In recent years, Zhejiang University has made significant strides in reforming its innovation and entrepreneurship education, positioning student competitions as a key platform for these efforts. ZJUers participate actively in innovation programs, with over 50% of projects incubated through competitions going on to successful implementation. At the 14th National College Students' Entrepreneurship Competition in 2024, ZJU claimed the "Cup of Excellence" with the highest overall score, marking its third top national honor following wins in 2018 and 2020.



CULTIVATING RESPONSIBILITY BEYOND THE CLASSROOM



Since 1999, 379 ZJU graduates have joined the ZJU volunteer teaching group to serve one year at the 20 designated schools in Southwest China. One team has taught 4,000 high schoolers in Yunnan province and helped the school top the province by college enrollment rate.

ZJU students (in white T-shirt) volunteered teaching in Jingdong Yi autonomous county, in Yunnan province, 2,600km away from Hangzhou, where ZJU is located.



ZHEJIANG UNIVERSITY MUSEUM OF ART AND ARCHAEOLOGY (ZJUMAA)

ZJUMAA was officially opened in September 2019. Its mission is to support and enhance education and research at ZJU.

Occupying an area of 8.23 acres with a floor area of 25,000 square meters, the complex is divided into two zones: the museum facilities and the academic institute. Its educational activities include exhibitions, publications, lectures, conferences, film screenings and live performances. Through collection, research, and exhibition of artwork and archaeological artifacts, the Museum seeks to elevate the aesthetic sensitivity and visual literacy of the ZJU community.

In November 2024, Zhejiang University inaugurated the International Alliance of Teaching Museology in Universities (IATMU), uniting 16 global institutions to advance museology education through academic collaboration, talent development, and sustainable practice. Its founding consensus was signed during the inaugural International University Colloquium at ZJUMAA.

▼ ZJU interdisciplinary team created the world's first movable 3D grotto replica.



▼ Prof. XUE Longchun offered an on-site class at ZJUMAA for students, allowing them to observe and interact with physical artifacts on display.



TRAILBLAZING RESEARCH FRONTIERS

ZJU is proud of its leading experts in many fields, including engineering, chemistry, materials science, pharmacology & toxicology, agricultural sciences, etc. Driven by the big picture, ZJU researchers push the boundaries of knowledge and create discoveries and innovations that change our world for the better.

*Statistics in 2024



INNOVATION 2030

*Capitalizing on its broad research portfolio, ZJU announced a university-wide framework in 2018, INNOVATION 2030, to catalyze greater collaboration among discipline clusters and find innovative solutions for big questions of tomorrow. Here, we present you **TEN** main projects under the framework.*

30+
DISCIPLINES

The knowledge, theories, methods, data and scientific communities of 30+ disciplines are coordinated into the projects to open up new vistas on research.

ONE

1

BRAIN RESEARCH AND ARTIFICIAL INTELLIGENCE

- Brain and cognition research
- Development of next generation AI
- Human-machine interface design

2

QUANTUM INFORMATION SCIENCE

TWO

- Quantum control and manipulation
- Quantum sensing
- Quantum imaging

THREE

4

CONSERVATION OF ECOLOGY AND ENVIRONMENT

- Genomic information
- Development of gene editing technology
- Big data-driven targeted breeding
- Innovation in crop resistance to biotic and abiotic stress

3

AGRICULTURAL BREEDING BY DESIGN

FOUR

- Alleviation of environmental impacts
- Restoration of natural ecosystems
- Development of renewable and clean energy
- Environmental big data analytics
- Institutional innovation and cultural communication



5

SMART OCEAN

FIVE

- Ocean informatization
- Ocean environment sensing
- Intelligent ocean equipment

6

PRECISION MEDICINE

SIX

- Multi-omics based molecular diagnosis and genotype of diseases
- Innovation and translation of precision diagnosis and treatment
- Precision diagnosis and prevention technologies

7

HYPERGRAVITY FIELD

SEVEN

8

NEW MATTER DISCOVERY AND FABRICATION

- Synergistic innovations of research paradigms
- Advancing the synthesis, characterization and application of new matter
- Development of intelligent manufacturing, synthetic biology, and intelligent medicines

- Hypergravity effects on multiphase media
- Hypergravity multiphase evolution of rock and soil masses
- Geo-environmental mechanics
- Hypergravity experiments with geological processes
- Experimental earth sciences
- Hypergravity materials science and engineering

9

ASIAN CIVILIZATIONS

NINE

- Blending and clashing of civilizations
- Inheritance and innovation of cultures
- Contacts and variations of languages
- Circulation and recreation of classical literature
- Preservation and protection of cultural relics
- Interpretations and dialogue of arts and literature

10

DIGITAL SOCIAL SCIENCE

TEN

- Digital economy
- Digital innovation
- Digital governance
- Digital rule of law
- Digital media

DISCOVERY TO DISTINCTION

BREAKTHROUGHS IN REPRESENTATION THEORY OF LIE GROUPS

Professor SUN Binyong, a mathematician from the Zhejiang University Institute for Advanced Study in Mathematics, was awarded the 2024 Future Science Prize in Mathematics and Computer Science for his exceptional contributions to the representation theory of Lie groups.

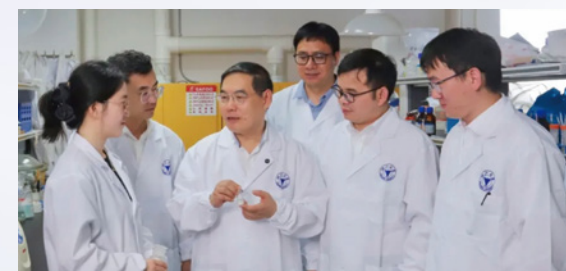
The representation theory of Lie groups is foundational in modern mathematics. It originated from physics and is pivotal in the Langlands program, which has advanced numerous areas of number theory, including the proof of Fermat's last theorem.

Sun's work addresses several long-standing problems in mathematics. His first achievement lies in establishing the multiplicity one property for representations of classical Lie groups. Sun's second major contribution is the theory of theta correspondences, a crucial method for studying automorphic forms across different groups. The third major achievement is the proof of the non-vanishing of period integrals for cohomological test vectors in Rankin-Selberg convolutions.

SUN Binyong

SMART TUMOR-TARGETED DRUG DELIVERY

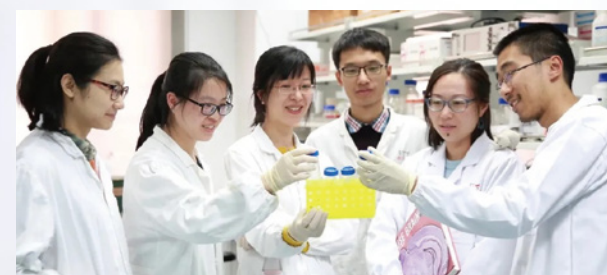
The research team led by Professor SHEN Youqing from the College of Chemical and Biological Engineering was awarded the Second Prize of the 2023 National Natural Science Award for their breakthrough in tumor-targeted drug delivery. In response to the urgent need for more effective cancer treatments, his team has spent over 15 years developing a novel drug delivery mechanism in which tumors actively "demand" therapeutic agents. This led to the creation of an intelligent system that addresses two key challenges: difficulty in exiting blood vessels and difficulty in penetrating tumor tissues. Their innovation has significantly improved the precision and efficacy of targeted treatments, offering new hope in the fight against cancer.



SHEN Youqing

UNRAVELING DEPRESSION'S NEURAL BLUEPRINT

The research team led by Professor HU Hailan from the School of Medicine received the Second Prize of the 2023 National Natural Science Award for groundbreaking research on the brain mechanisms underlying depression. Focusing on how negative emotions and social defeat contribute to the disorder, her team spent over a decade identifying the specific brain regions, neural circuits, cell activity patterns, and molecular pathways involved. Their work has reshaped the scientific understanding of depression and opened new avenues for developing targeted treatments. As depression affects over 300 million people worldwide, this achievement not only advances neuroscience but also offers renewed hope for tackling one of the most pressing global health challenges.



HU Hailan

RESEARCH WITHOUT BORDERS

DECODING AVIAN EVOLUTION

Professor ZHANG Guojie and his partners unveils a revolutionary avian family tree resolving long-standing debates about bird evolution in a new study published in *Nature*. The international effort redefines Neoaves, the group encompassing about 95% of modern birds, into four major clades, including the newly proposed "Elementaves" reflecting Earth's ecological diversity. By uncovering key radiation events following the K-Pg extinction, this study offers a clearer timeline and deeper insights into avian diversification, laying a robust foundation for future ornithological and biodiversity research.



ZHANG Guojie



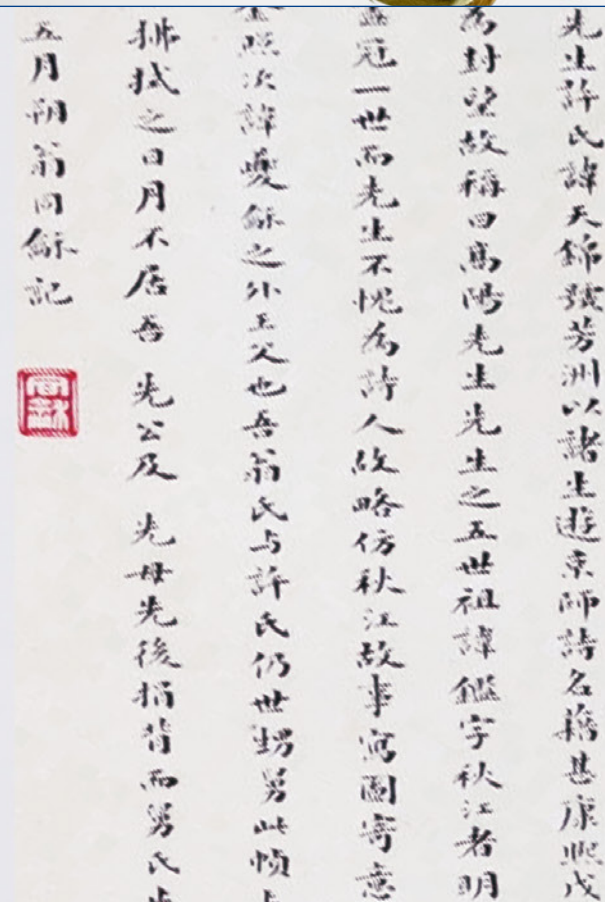
RETHINKING AIR POLLUTION CONTROL

Professor GU Baojing from the College of Environmental & Resource Sciences has been named one of four inaugural winners of the Frontiers Planet Prize 2023, a global award recognizing breakthroughs in sustainability science. His groundbreaking study, "Abating ammonia is more cost-effective than nitrogen oxides for mitigating PM2.5 air pollution" (published in *Science*, 2021), demonstrates that reducing ammonia emissions offers a highly efficient strategy to combat air pollution while delivering significant societal benefits.

GU Baojing

SAFEGUARDING BRUSHSTROKES IN BYTES

The ZJU multidisciplinary team has dedicated 20 years to the digital publication of *A Comprehensive Collection of Ancient Chinese Paintings*, by far the most comprehensive archive of ancient Chinese paintings, which is a collection of 12,405 ancient Chinese paintings from 263 cultural institutions and museums around the globe.



FROM IDEAS TO IMPACT

In "China's Silicon Valley" of Hangzhou, East China's Zhejiang province, the six renowned start-ups, known as the "Six Little Dragons", are making waves globally. Half of these "dragons" – DeepSeek, Deep Robotics, and Manycore Tech – share a common origin: Zhejiang University.

ZJU has long been a beacon of innovation and entrepreneurship, creating a vibrant ecosystem that seamlessly integrates academic excellence with real-world applications.

ZJU's impact on the global stage expands as it nurtures the next generation of innovators and entrepreneurs who not only drive scientific and technological breakthroughs, but also embrace a "tech for good" ethos—advancing solutions that shape a more sustainable future.

TALENT FORGE: SHAPING FUTURE ENTREPRENEURS

Since its launch in 1999, the Intensive Training Program of Innovation and Entrepreneurship (ITP) at ZJU's Chu Kochen Honors College has been dedicated to cultivating future entrepreneurs with global vision and local insight. Each year, the program selects 50 students, primarily sophomores, equipping them with expertise in their fields alongside strong entrepreneurship management skills.

Over the past 26 years, ITP has nurtured more than 1,000 aspiring entrepreneurs. Seven alumni-founded companies have successfully gone public, while over 50 startups have secured Series A or higher funding. With an entrepreneurial rate exceeding 20% within five years of graduation, the program has earned its reputation as "China's No. 1 Entrepreneurship Class."



INNOVATION HUB: CULTIVATING TECH GIANTS

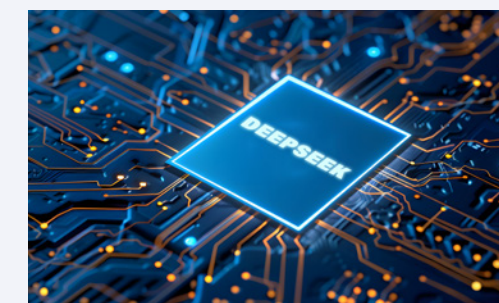
"We joined the Headquarters Economy Park for Alumni Corporation, ZJU in 2023. The platform's comprehensive support has empowered us to grow together," said LU Huifeng, chairman of Water Healer and ZJU alumnus.

Sitting in the heart of Hangzhou Future Sci-Tech City, this park covers an area of over 200,000 sq m and is a hub for innovation and commercialization of scientific and research findings for alumni companies from ZJU. With 650+ high-tech enterprises and platforms, including key players like the quantum research institute, humanoid robot industry innovation center, and tea industry innovation center, the park cultivates a vibrant rainforest-style ecosystem where leading, growing, and start-up companies thrive together. Since its establishment, the park has generated over 150 billion yuan (\$20.7 billion) in revenue and contributed more than 2.4 billion yuan in local taxes.



ALUMNI POWER: DRIVING INDUSTRIAL LEADERSHIP

According to a list released by Qiushi Innovation Power and Zhejiang University Technology Venture Program (ZTVP) in 2024, 351 ZJU alumni are leading 313 listed companies as founders, key executives, or controlling shareholders, with a combined market value of 5.4 trillion yuan (\$745 billion). With 102 companies in IT and 77 in manufacturing, ZJU alumni are driving innovation and success in various sectors.



FORGING GLOBAL MINDS

GLOBAL STRATEGY

International engagement has long been central to ZJU's strategy, which aims to create a genuinely global institution that remains rooted in China's educational ecosystem. In 2018, ZJU published "Global ZJU: CREATE to impact", a global strategy underpinned by the six pillars of culture, research, education, administration, talent and engagement. In 2022, ZJU released its refreshed global strategy, seeking to maximize the university's impact on the world stage.

1

Deliver gold-standard education to nurture globally competent and competitive students, and become a more influential hub for international education.



2

Deepen international research collaborations to address pressing global challenges, and initiate in-depth dialogue among cultures and civilizations.



3

Recruit and retain the most talented faculty from around the world, and enable them to thrive in their careers and realize their full potential.



4

Advance a broad range of meaningful, multi-layered global partnerships and networks, lead and shape the agenda on global issues.



5

Foster the ecosystems where a global dimension will be truly embedded in all we do, and our international-at-home experiences will be tremendously enriched.



A GLOBAL ZJU

ZJU is one of China's most international universities. Working closely with our partners in six continents, we are committed to promoting student and faculty mobility, developing substantial research cooperation and leading innovative changes.



200+

PARTNER
UNIVERSITIES IN 6
CONTINENTS

4,600+

INTERNATIONAL
DEGREE-SEEKING
STUDENTS

150+

COUNTRIES REPRESENTED
BY INTERNATIONAL
STUDENTS

HAINING INTERNATIONAL CAMPUS

Located in Haining city, 80 km away from the main campus, ZJU's International Campus welcomed its first batch of students in September 2016. The campus follows a unique "1+X" model, in which ZJU partners with multiple world-renowned universities to establish innovative models of transnational education and integrates the best education practices of both the East and the West.



2

JOINT INSTITUTES

ZJU-UOE INSTITUTE (ZJE)
ZJU-UIUC INSTITUTE (ZJUI)

1

BUSINESS SCHOOL

ZHEJIANG UNIVERSITY
INTERNATIONAL BUSINESS
SCHOOL (ZIBS)

7

UNDERGRADUATE PROGRAMS

16

MASTER'S DEGREE PROGRAMS

34

PHD PROGRAMS

3,100+

STUDENTS ON CAMPUS

PIONEERING SUSTAINABLE FUTURES

As a socially responsible and globally-minded higher education institution, ZJU aspires to make a distinctive and positive impact by strengthening its commitment to the Sustainable Development Goals (SDGs).

In March 2021, ZJU launched its Sustainability Action Plan: A Global ZJU for Social Good (Z4G), aiming to improve our sustainability-related education, research, and practices within the ZJU community and among other stakeholders in China and beyond. As one aspect of this initiative, we hosted an online forum and, together with 69 universities from 34 countries and regions, issued the Joint Statement of Global University Leaders on the 2030 Agenda for Sustainable Development, pledging to work together to realize the SDGs.

82,500+

PAPERS COVERING
17 SDG GOALS
(2018-2023)

*ZJU Sustainable Development
Goals Report 2023*

10,000+

ARTICLES IN NET
ZERO RESEARCH
(2011-2020)

*Elsevier's report Pathways to
Net Zero: The Impact of Clean
Energy Research*

1,000+

COURSES ON
SUSTAINABILITY

5

JOINT SEED FUNDING
FOR SDGs WITH
GLOBAL PARTNERS



CHEN Zaiming (second from right), a ZJU expert in wild mushrooms, taught local people in Jingdong how to exploit wild mushroom resources.

WATER SECURITY THROUGH GREEN TECH

A team from ZJU Marine Institute, led by Prof. HE Zhiguo and Prof. JIAO Pengcheng, made history by winning the prestigious Creativity Prize at the 11th Prince Sultan Bin Abdulaziz International Prize for Water (PSIPW)—the first Chinese research team ever awarded this honor. Recognized among 400+ global contenders, their groundbreaking work in ocean engineering safety monitoring and disaster prevention pioneers innovative solutions for underwater exploration and marine ecosystem protection.



EFFORTS TO BRIDGE DIVIDES

ZJU is committed to assisting residents in Jingdong Yi autonomous county, an underdeveloped area in China's Yunnan province, through a range of initiatives, such as applying new technologies to local industries, expanding agricultural product sales channels, and providing volunteer teaching, training, and medical assistance. This ongoing effort was recognized as one of the world's top poverty reduction practices at the 2022 International Seminar on Global Poverty Reduction Partnerships, jointly organized by IPRCC, IFAD, FAO, WFP, and CIIC.



In their acceptance speeches, HE Zhiguo and JIAO Pengcheng emphasized the importance of innovation, collaboration, and interdisciplinary thinking in overcoming the global water crisis. “The PSIPW Creativity Prize not only recognizes our team’s achievements but also highlights the central role of creativity in science and technology when it comes to solving complex environmental problems,” said HE Zhiguo.

HANGZHOU: A VIBRANT BLEND OF PAST AND FUTURE

"It is without a doubt the finest and most splendid city in the world."

Marco Polo, Italian merchant, explorer and writer [1254-1324]

Hangzhou, "the City of Heaven", was Marco Polo's favorite city in China. Fast forward 800 years and his words still ring true. Hangzhou has been consistently ranked among the top three most attractive Chinese cities for foreigners. A city with a long history and a hub for innovation, Hangzhou has something for everyone!

Quick Facts

- Hangzhou is one of the birthplaces of Chinese civilization and ranking among the seven ancient capitals in China.
- As the capital of Zhejiang province and its economic, cultural, science and educational center, Hangzhou is one of the central cities in the Yangtze River Delta.
- With a population of 12.6 million people, Hangzhou has joined the club of China's new first-tier cities. Powered more by services and advanced industry, the city shows a possible model for China's new economy.

City of Possibilities

Hangzhou, a city of innovation, is renowned for its e-commerce boom led by Alibaba. It's also a hub for AI advancements, with tech giants and startups thriving. The "Six Little Dragons" of Hangzhou—leading internet companies—drive digital transformation. Three of the "Six Little Dragons" were founded by Zhejiang University alumni.

Landscape of Heritage

The city retains many of its historical and cultural heritage, featuring a perfect blending of hills and water, and lakes and towns. It boasts two UNESCO world heritage sites – the West Lake and the Beijing Hangzhou Grand Canal.

Stage for the World

Hangzhou was the host of the 2016 G20 Summit and the 2022 Asian Games. Each year, it hosts various events including West Lake Expo, China International Cartoon and Animation Festival, and Hangzhou International Marathon.