



ZJU-UIUC INSTITUTE

Zhejiang University-University of Illinois Urbana-Champaign Institute

浙江大学伊利诺伊大学厄巴纳香槟校区联合学院

ZJUI

Newsletter

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The Commencement for ZJUI Class of 2025

Date: June 1, 2025
Article: Zhou Yiyang, Wang Chuxi, Jin Xiufang

On the morning of June 1st, the University of Illinois Urbana-Champaign (UIUC) Commencement for the Class of 2025 undergraduates of the Zhejiang University-University of Illinois Urbana-Champaign Institute (ZJUI) was held at the Academic Auditorium of International Campus, Zhejiang University. A delegation from UIUC travelled to join faculty, students and their families in celebrating this milestone achievement.

Keynote speeches were delivered by Professor Ma Yanming, President of Zhejiang University, and Professor Robert J. Jones, Chancellor of the University of Illinois Urbana-Champaign (UIUC). Distinguished attendees included Professor Zhou Jianghong, Vice President of Zhejiang University; Professor He Lianzhen, Co-Chair of ZJU-UIUC Institute Joint Management Committee; Professor Li Min, Chief and Vice Dean of International Campus, Zhejiang University and Professor Jonathan Makela, Associate Dean of the Grainger College of Engineering.



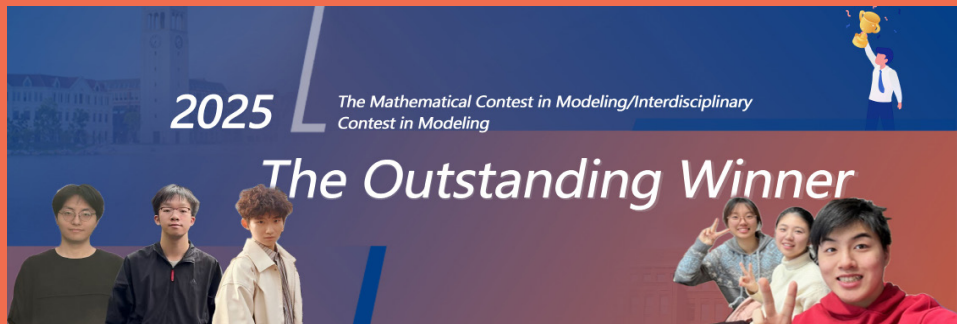
ZJUI Executive Dean Professor Jin Jianming, together with members of the UIUC delegation, conferred degree certificates to the graduates. The ceremony was also attended by heads of ZJU Offices, the International Campus, and Collaborative Colleges at ZJU Main Campus, as well as ZJUI faculty, and parents. The event was presided over by Professor Lee Der-Hong, Dean of ZJUI.

This year's graduating class includes the fifth cohort of students in Mechanical Engineering and Civil Engineering, as well as the sixth cohort in Electrical Engineering and Computer Engineering. After receiving their degree certificates from UIUC, the graduates will also be awarded degrees from Zhejiang University. These graduates are primarily heading to world-renowned universities for further studies, continuing to embody the spirit of truth-seeking and innovation as they explore new frontiers on the global stage.



ZJUI Students Excel in 2025 MCM/ICM Global Modeling Contest

Date: May 9, 2025
Article: Wang Chuxi
Photo: From interviewee



The results of the 2025 Mathematical Contest in Modeling/Interdisciplinary Contest in Modeling (MCM/ICM) have been released, with ZJUI student teams achieving outstanding performance in this highly competitive global event that attracted over 27,000 participating teams worldwide. According to preliminary statistics, ZJUI students earned an impressive tally of awards this year, including 6 Outstanding Winners, 12 Honorable Mentions, and 18 Successful Participants, demonstrating the institution's strong capabilities in interdisciplinary education and mathematical modeling.

Xu Junhan, Li Qi, and Xu Shurui's team selected Problem A in the mathematical modeling competition, which required building an archaeological analysis model based on stair wear patterns. By quantifying wear characteristics, the model aimed to infer historical usage data while ensuring reliability through validation. Faced with technical challenges, the team leveraged their interdisciplinary strengths, integrating mathematical modeling, statistical analysis, and academic writing to successfully overcome difficulties and ultimately win the Outstanding Winner award.

Similarly, Team of He Nuoyu, Dong Jiacheng, and Chen Yile achieved Outstanding Winner in the MCM/ICM by developing an innovative system dynamics model to address sustainable tourism development. Through precise parameter calibration and empirical validation, their research proposed an optimized strategy balancing economic benefits and ecological conservation. Using Juneau, Alaska, and Sanya, China as case studies, the team demonstrated the model's generalizability.

In 2025, ZJUI undergraduate students achieved remarkable success in the Mathematical Contest in Modeling/Interdisciplinary Contest in Modeling (MCM/ICM), marking the eighth consecutive year of outstanding performance since their initial participation. This exceptional accomplishment not only demonstrates ZJUI students' dedication to rigorous scholarship and innovative thinking, but also fully reflects the institute's distinctive educational approach characterized by internationalization, interdisciplinary integration, and hands-on innovation. By integrating premium global educational resources and establishing a diverse international learning platform, ZJUI has created an expansive stage for students to pursue their academic aspirations.

ZJUI-Led Childcare Technology Project Selected for National Key Research and Development Program

Date: May 14, 2025
Article: From interviewee

The project *Personalized and Inclusive Childcare Service Technologies and Platform* led by Professor Wang Hongwei, Vice Dean of ZJUI, has been selected as the National Key Research and Development Program provided by the Ministry of Culture and Tourism of the People's Republic of China. Zhejiang University serves as the lead institution for this groundbreaking initiative.

The project addresses three core scientific challenges: promoting equitable and quality early childhood development, enabling scientifically precise nurturing practices, and ensuring safe and reliable childcare services. To meet these goals, the team will develop advanced technologies for personalized and inclusive childcare services. Establishing a smart digital service platform is central to the initiative. It will explore integrated healthcare and childcare and offer digital childcare solutions to deliver comprehensive, accessible early education services. Ultimately, the initiative seeks to pioneer a new childcare model that combines universal accessibility with individualized development.

Under Professor Wang's leadership,

the project team brings together nearly 200 researchers from ten prestigious institutions. Their collaborative mission includes designing childcare service and supervision systems, followed by real-world implementation.

The ZJUI team plays a pivotal role in this collaboration. The team includes Associate Professor Zhao Bo, Assistant Professors Wang Gao'ang, Zhang Meng, and Meng Xiangming, along with 16 PhD candidates and 23 master students. In recent years, the team has focused on signal processing, computer vision, and related fields, consistently publishing high-impact research in top-tier conferences and journals across multiple computing-related domains. Their work underscores ZJUI's robust research capabilities and global influence in these areas.

ZJUI continues to advance its research initiatives by leveraging its strengths in interdisciplinary collaboration while placing strong emphasis on nurturing young faculty. This has enabled the Institute to progressively build a sustainable educational ecosystem that integrates education, technology, and faculty development.

ZJUI Students Shine in UIUC Rhetoric Student Essay Contest

Date: March 22, 2025
Article: Wang Chuxi
Photo: From interviewee

ZJUI undergraduates have once again demonstrated their academic excellence by earning top honors in the UIUC Rhetoric Student Essay Contest. Under the guidance and recommendation of Mary Lucille Hays, Senior Lecturer, UIUC, and Jess Williard, UIUC Lecturer, Ashley Barr, ZJUI Lecturer, ZJUI students participated in the competition with many native English speakers and were successfully selected as winners of the contest. The winners of the 2024 Spring/Summer Contest are Liang Yusen, class of 2027 in Electrical Engineering and Xu Weili, class of 2027 in Computer Engineering. The winners of the 2024 Autumn/Winter Contest were Chen Hanshu, class of 2028 in Mechanical Engineering, Liu Haozhong, class of 2028 in Computer Engineering, and Zhang Yuncheng, class of 2028 in Computer Engineering.

ZJUI Professors Lead the Way in Science Popularization.

Date: March 14, 2025
Article: Yu Mengyue
Photo: From interviewee

Science popularization, as a vital endeavor to disseminate scientific knowledge, uphold the spirit of inquiry, spread scientific thinking, and advocate evidence-based methodologies, carries profound significance for national and societal development. Universities bear both the responsibility and obligation to share their educational and scientific resources with the broader public, ensuring that the benefits of scientific literacy reach all. This mission transcends mere knowledge transfer—it cultivates critical thinking, nurtures curiosity about the world, and inspires a lifelong passion for exploration.

To align with national goals of enhancing public

scientific literacy, strengthening science communication capabilities, and fostering sustainable mechanisms for science outreach, ZJUI has spearheaded efforts to integrate its unique culture of innovation into community engagement. Through initiatives such as lab open days, interdisciplinary tech salons, community-campus science workshops, and youth STEM education programs, ZJUI actively encourages its faculty and students to bridge the gap between cutting-edge engineering expertise and public understanding. By demystifying complex concepts and showcasing the wonders of technology, these programs empower individuals to experience science firsthand.

This commitment not only exemplifies ZJUI's dedication to social responsibility as a world-class engineering institute but also underscores its vision to nurture globally minded, science-literate leaders of tomorrow. Through collaborative knowledge-sharing, ZJUI continues to champion a future where scientific advancement serves as a cornerstone of societal progress.

In recent years, ZJUI Assoc Prof. Ong Wee-liat, Assoc Prof. Hu Huan, Assoc Prof. Yang Liangjing, Assist Prof.

The project Research on Efficient Conversion and Stable Control of New Energy Clusters for Remote Areas was selected as key project under the National Key Research and Development Program

Date: May 21, 2025
Article: From interviewee

The project *Research on Efficient Conversion and Stable Control of New Energy Clusters for Remote Areas* led by Associate Professor Li Chushan of ZJUI, has been selected as the key project under the National Key Research and Development Program's Intergovernmental International Science and Technology Innovation Cooperation initiative.

This project responds to the urgent need for high-efficiency, highly reliable, and robust new energy power supply systems in remote regions of China and South Africa. Current systems face challenges such as low cluster efficiency, inadequate regulation capability, and instability, largely attributable to the absence of multi-level coordinated design in power conversion equipment. Through close collaboration between Chinese and South African teams, this initiative will develop advanced technologies for efficient power conversion and stable control in remote-area new energy clusters. The research centers on multi-level coordinated design methodologies, with a focus on three key technological breakthroughs: heterogeneous topology construction methods for new energy generation clusters, multi-energy integrated control strategies for power conversion equipment, and autonomous stabilization mechanisms combined with coordinated control strategies for new energy clusters.

The project is aiming to enhance the stability and energy absorption capacity of renewable

energy systems in remote areas of both China and South Africa. This will facilitate large-scale deployment of renewable energy solutions in underserved regions. Simultaneously, the project will pioneer a new China-led model for international cooperation. These efforts will strengthen China's global influence in the energy sector while making substantial contributions to achieving carbon peak and carbon neutrality goals.

The team is led by ZJUI Associate Professor Li Chushan, with members including Professor Deng Yan and Assistant Professor Abhishek Kumar from the College of Electrical Engineering at Zhejiang University, as well as Professor Xu Guo from Central South University. Professor Ramesh C. Bansal is the leader on South Africa side, who is from the University of Pretoria.

ZJUI continues to focus on building a systematic research framework by integrating multidisciplinary resources to enhance its strengths in interdisciplinary innovation. It has also prioritized the development of young faculty, steadily establishing a sustainable development mechanism that integrates education, science and technology. The recent approval of this National Key Research and Development Program project will significantly elevate the institute's research capabilities and serve as a catalyst for producing innovative outcomes with broad societal benefits.

ZJUI Research Team Publishes Breakthrough (AFM) Nanospherical Probe Study in *Nanoscale*

Date: February 25, 2025
Article: Yu Mengyue

Recently, the latest research achievement of Assoc Professor Hu Huan of ZJUI and his team, titled "Atomic Force Microscope (AFM) Nanospherical Probe", was officially published in the internationally renowned journal *Nanoscale*. In collaboration with Professor Xu Yang from Zhejiang University, Assoc Professor Hu Huan led the team to develop a cleaning technology based on the nanospherical atomic force microscope (AFM) probe, which can achieve the cleaning of the heterojunction interface of two-dimensional materials with almost no damage. Ding Xiaolei, a doctoral student at Zhejiang University, is the

first author of the article, and the corresponding authors are Assoc Professor Hu Huan from ZJUI and Professor Xu Yang from Zhejiang University.

This research achievement will not only significantly improve the performance and reliability of electronic devices but also has the potential to reshape the application pattern of two-dimensional materials in multiple fields such as electronics, energy, and communication worldwide, opening an unprecedented new path for the digital transformation and technological leap of human society.

Timothy Lee and other professors have visited multiple primary and secondary schools, bringing students many interesting science popularization lectures. From the magical physical phenomena to the wonderful biological mysteries, each lecture vividly unfolds abstruse scientific knowledge in a lively and engaging manner. With the help of wonderful pictures, intuitive models, and on-site experiments, it successfully ignites the enthusiasm of students for scientific exploration.



Cultivating Knowledge and Crops: Professor Zhu Tingju's Mission to Make Every Drop Count

Date: March 22, 2025
Article: Yu Mengyue
Photo: From interviewee

Zhu Tingju, professor of ZJUI, graduated from the University of California, Davis with a Ph.D. in Civil and Environmental Engineering in 2004. From 2005 to 2018, he worked at the International Food Policy Research Institute in Washington, D.C. as a Postdoctoral Fellow, Senior Scientist and Research Fellow, conducting interdisciplinary research at the interface of hydrology, engineering, and economics for addressing real-world problems concerning sustainable water resource management, food security and associated socioeconomic outcomes under changing environment. His research has been recognized by the Editors' Choice Award (2011) of Water Resources Research (WRR), the flagship water journal of the American Geophysical Union, WRR Research Highlight (2018) and the INFORMS ENRE Best Publication Award in Natural Resources (2018), among others.

In recent years, Zhu Tingju's research group has focused on the sustainable management of complex water resource systems in changing environments, exploring in-depth in the fields of hydrological and economic modeling theory and key issues in typical regions. In the research of modeling theory, Zhu Tingju's research group explores engineering measures, management strategies, and policy tools to achieve key goals by integrating water science and engineering principles, agricultural and resource economics theories, and operations research methods.

Under the guidance of Professor Zhu Tingju, his students have also actively engaged in technological breakthroughs in the field of sustainable development of water resources systems. Master's student Luo Yuanyuan, under the guidance of Professor Zhu Tingju, is about to go to Tsinghua Shenzhen International Graduate School to continue her research work in the fields of climate change and ecosystems, and hopes to achieve even better results in the interdisciplinary fields of water resources management, food security, and sustainable development in the future.

Inside and outside the lecture, Professor Zhu Tingju is always celebrated for his patient demeanor and humble approach. He serves as a trusted confidant to students, not only alleviating academic pressures through meticulous guidance but also diligently addressing their personal concerns and life challenges with genuine care.



ZJUI's Professor Xiao Yan's and Team Win Prestigious AEI Award for World's Tallest Bamboo Building

Date: April 22, 2025
Article: From interviewee
Photo: From interviewee

At the 2025 Annual Conference of the Architectural Engineering Institute (AEI) of the American Society of Civil Engineers (ASCE) held in Missouri, USA, the "Ninghai Bamboo Building" project designed and constructed by ZJUI Professor Xiao Yan's research group won the 2025 Most Innovative Project Award. The project also received three major honors: the Award of Merit in Structural System Design, Building Integration, Sustainability and Lifecycle.

Additionally, at the 50th International Exhibition of Inventions of Geneva held from April 9 to 13, 2025, two achievements from ZJUI won silver awards: The "High-Rise Bamboo Structures" technology, co-developed by Wu Ruijia and Wang Peixiang, 2020 doctoral students in Structural Engineering, Hou Yubing and Guo Weichang, 2022 master's students in Civil and Hydraulic Engineering, Li Xinlei and Bai Yafeng, 2023 master's students in Civil and Hydraulic Engineering; The "Multi-Functional Structural Loading System" technology, co-developed by Wu Ruijia, 2020 doctoral student in Structural Engineering, Zhang Xiangfei, 2024 doctoral student in Civil and Hydraulic Engineering, and postdoctoral researcher Xiao Ziling.

The "Ninghai Bamboo Building" project stood out among numerous entries due to its remarkable innovations and excellent practices across multiple dimensions. In terms of structural innovation, the project pioneered the use of modern engineered bamboo as the primary building material, integrating lightweight bamboo-wood shear walls, steel-bamboo composite components, and Cross Laminated Bamboo Timber (CLTB) technology. By incorporating recycled waste concrete and masonry materials, it achieved groundbreaking design and construction of high-rise bamboo structures. This structural system demonstrated exceptional performance in seismic, wind resistance, and durability tests, providing an entirely new technical pathway for sustainable building design. The Ninghai Bamboo Building, comprising six standard floors and an attic, stands seven stories tall with a total height of 20.3 meters and a total floor area of approximately 800 square meters. It currently stands as the tallest engineered bamboo structure in the world.

ZJUI Sub Forum Showcases Engineering Innovation at 2024 Annual Academic Conference

Date: January 8, 2025
Article: Cai Tongjiang
Photo: Cai Tongjiang

On the afternoon of January 5, 2024, the ZJUI sub forum of the 2024 Annual Academic Conference of the International Campus, Zhejiang University was held. This forum focuses on the cutting-edge trends and practical applications in the field of engineering, inviting a total of 11 experts from both inside and outside the university to present an exciting and thought-provoking academic event for the faculty and students in attendance. Academician Lee Der-Horn, Dean of ZJUI, Professor Ma Hao, Vice Dean of ZJUI, and Professor Wang Hongwei, Vice Dean of ZJUI, attended the event. The forum was presided over by Prof. Wang Hongwei.

Prof. Xu Yang from Zhejiang University, Prof. Jin Chuanhong from the School of Materials Science and Engineering at Zhejiang University, Assoc Prof. Penkov Oleksiy from ZJUI, Assist Prof. Kemal Celebi from ZJUI, Assoc Prof. Hu Huan from ZJUI, Prof. Ju Zhaojie from the School of Biomedical Engineering and Instrument Science at Zhejiang University, Assist Prof. Luo Bing from the Department of Data and Computational Science at Duke Kunshan University, Assoc Prof. Liu Jia from the Department of Computer Science at Nanjing University, Assoc Prof. Jin Haiming from the Department of Computer Science and Engineering at Shanghai Jiao Tong University, Assoc Prof. Wu Chao from the Collaborative Innovation Center of Artificial Intelligence at Zhejiang University, and Assist Prof. Chen Hua from ZJUI, gave excellent presentations.

Drawing on the phased achievements of research and the future development of the discipline, the attending guests and scholars engaged in in-depth exchanges regarding the research progress and emerging trends. Through these meaningful discussions, they collaborated to plan for future endeavors.

The successful completion of this academic forum has enhanced academic exchanges between ZJUI and other universities and institutes. Looking ahead, ZJUI will unwaveringly uphold the philosophy of multi-disciplinary integration and give full play to its advantages in cross-disciplinary research, industry-university-research cooperation, comprehensively enhance its capabilities in research innovation and open cooperation, strive to achieve more fruitful results in many emerging scientific and technological frontiers, and contribute more to promoting academic progress and technological innovation.

Mind Ocean Hub empowers students to enhance knowledge and skills

Date: March 26, 2025
Article: From interviewee
Photo: From interviewee

To construct an "empowering" learning adaptation support system, and boost students' self-learning, ZJUI leveraged its advantageous resources in academic exchanges, career guidance, cultural and sports activities, etc, and supported the operation of the Mind Ocean Hub. Through this initiative, the Institute sets up a learning support system, enhances students' self-management, self-service, and self-education skills, and addresses the pressing requirements of world-class universities for cultivating high-quality, international scholars.

The Hub offers a wide range of services. It extends from professional learning guidance and future career planning to the cultivation of cultural and sports skills as well as the development of interests and hobbies. It has consistently been dedicated to furnishing students with rich and diverse learning and growth resources and actively facilitating culture construction and knowledge dissemination.

At ZJUI, many undergraduate students actively engage in diverse activities of the Mind Ocean Hub. Some students, including Qu Zixuan from the Class of 2021 in Computer Engineering, Li Yanjie from the ZJUI Class of 2021 in Mechanical Engineering, Li Xinyang and Sun Yating from the Class of 2021 in Civil Engineering, Zhang Jiangnan and Tao

Yiting from the ZJUI Class of 2023 in Civil Engineering, and Zhang Zhiyuan from the ZJUI Class of 2023 in Electrical Engineering, who are in the role of facilitators, shoulder the responsibility of answering queries and sharing specialized learning and skill-cultivation approaches with their peers. They draw on their substantial knowledge reservoirs and extensive learning experiences to offer detailed and clear-cut guidance.

On the other hand, there are students, including Li Honghe from the Class of 2023 majoring in Mechanical Engineering and Ji Shengzhe from the Class of 2023 majoring in Computer Engineering, who are active participants. Driven by a strong yearning for knowledge and a deep-seated enthusiasm for self-enhancement, they wholeheartedly immerse themselves in the various learning and interaction activities where they listen intently to the facilitators' explanations, engage in active thinking, and pose questions with great eagerness.

Here, both facilitators and participants forging ahead hand in hand in the vast ocean of knowledge and interests. When confronted with challenges, they offer mutual support. During spare moments, they engage in warm-hearted exchanges of learning insights. In this vibrant learning ambience, they inspire one another and jointly thrive.



Fu Tianyu, class of 2025 in Mechanical Engineering of ZJUI, as a core contributor to the "Intelligent Manufacturing System Based on Kunpeng Boostkit" project, she earned a national gold medal in China College Students' 'Internet+' Innovation and Entrepreneurship Competition. She led teams in the Mathematical Contest in Modeling further honed her collaborative and analytical skills, and founded iZJU's "Reading Club," fostering cross-cultural dialogue through literature discussions and field studies, underscoring her commitment to merging STEM rigor with humanistic perspectives. And she has accepted a Ph.D. offer from the University of Hong Kong after securing admissions from multiple world-leading institutions.



Wen Jiaheng, class of 2025 in Computer Engineering of ZJUI. He has demonstrated outstanding excellence in both academic and practical pursuits, earning prestigious awards including the National Scholarship, Zhejiang Provincial Government Scholarship, and multiple honors from Zhejiang University. As a core member of the Room78 Algorithm Club, he taught an introductory C++ course. Beyond academics, he led his team to victory in Zhejiang University's inaugural Freshmen Volleyball Cup, showcasing his well-rounded abilities. After securing offers from top institutions like Harvard University, Yale University, and other Universities, he ultimately chose to pursue a master's degree at Harvard University.



Yu Siying, class of 2025 in Electrical Engineering of ZJUI. She has garnered numerous awards including the Second Prize in the 8th Physics Academic Competition, Third Prize in the 3rd Zhejiang University Concrete Dragon Boat Competition, Team First Prize in the International Campus of Zhejiang University White Horse Cup Debate Tournament, and First Prize in Zhejiang University International Campus' Summer Social Practice Program. Academically, she has been a consistent recipient of the Zhejiang Provincial Government Scholarship and Zhejiang University's First-Class Scholarship. Her outstanding achievements earned her the distinguished title of "Outstanding Student" at Zhejiang University. She will continue her scholarly pursuits at The Chinese University of Hong Kong.



Zheng Li, class of 2025 in Civil Engineering in ZJUI, during her studies, was consistently recognized for her outstanding academic performance and well-rounded qualities. She was honored as the Outstanding Student of Zhejiang University for three consecutive years and received multiple prestigious scholarships, including the Zhejiang Provincial Government Scholarship, Zhejiang University Second-Class Scholarship, and Zhejiang University Xiaomi Scholarship. As a high-achieving all-rounder, she excelled in sports, securing the championship in the 4x400m race at the Zhejiang University Sports Game. Passionate about volunteer services, she was awarded the title of Five-Star Youth Volunteer by Zhejiang University and earned multiple accolades for her excellence in academics. Now, she has been admitted to the College of Civil Engineering and Architecture, Zhejiang University for graduate studies.



Wu FeiYang, class of 2025 in Computer Engineering of ZJUI, with his outstanding performance, he has received several academic honors, including the National Scholarship and the Provincial Government Scholarship. He has actively participated in multiple national-level academic competitions, earning distinctions such as the Gold Award at China College Students "Internet+" Innovation and Entrepreneurship Competition in 2022. He actively engaged in social practice and was always eager to help others. Now, he has secured admission offers from world-renowned universities, including Harvard University, the University of Pennsylvania, UC San Diego, the University of Illinois Urbana-Champaign, and Carnegie Mellon University. He is set to pursue further studies at Harvard University.



Jin Haoran, class of 2025 in Mechanical Engineering of ZJUI, with outstanding academic performance and exceptional research achievements, has been honored with prestigious titles such as "Outstanding Student", "Academic Excellence Model" and "Innovation and Entrepreneurship Model" at Zhejiang University. While completing his major in Mechanical Engineering, he also finished a minor program in Electrical and Computer Engineering. Now, he has received offers from the world-renowned universities, including University of California, Berkeley, the University of Pennsylvania, Yale University, Cornell University, Columbia University, the University of Chicago, the University of California, Los Angeles, Johns Hopkins University, Northwestern University, and Carnegie Mellon University. He will embark on a new journey at the University of Pennsylvania soon.

6th Zhejiang University Concrete Dragon Boat Competition

Date: May 20, 2025
Article: From interviewee
Photo: From interviewee

The 6th Zhejiang University Concrete Dragon Boat Competition was held in the International Campus, Zhejiang University on May 11, 2025. The competition attracted 27 participating teams from various departments. Prof. Wu Jian, Vice Dean of the International Campus, Dr. Wu Hang, Director of the Office of Student Affairs, Prof. Ma Hao, Vice Dean of ZJUI, Prof. Li Binbin, Academic Director of Civil Engineering at ZJUI attended the Competition.



The competition consists of two main components: theoretical evaluation and hands-on competition. The theoretical segment includes three aspects: exterior design assessment, technical paper review, and material performance testing. The practical portion features three challenging events: straight-line speed trials (round trip), slalom obstacle course navigation, and load-bearing capacity tests. Each team must independently develop their concrete mixture formula, hull structure design, and electronic control system while carefully balancing the competing demands of lightweight construction and structural stability.

The competing dragon boats showcased remarkable diversity in design: some incorporated elements from Zhejiang's Liangzhu culture, others experimented with hydrofoil structures, while several teams employed innovative high-toughness advanced concrete materials, demonstrating a wide spectrum of creative approaches. After intense competition, the event culminated with 3 teams awarded First Prize, 5 receiving Second Prize, and 9 earning Third Prize honors.

