

TSINGHUA NEWSLETTER

2026 ISSUE 3



Tsinghua holds conference to chart the next century for foreign languages and literatures

P02

14th World Peace Forum opens at Tsinghua, highlighting global governance and international security cooperation

P04

Tsinghua holds opening convocation to welcome new undergraduates

P07

Tsinghua holds opening convocation for 2026 graduate students

P10



CONTENTS



FOCUS

P02

Tsinghua holds conference to chart the next century for foreign languages and literatures

P04

14th World Peace Forum opens at Tsinghua, highlighting global governance and international security cooperation

P07

Tsinghua holds opening convocation to welcome new undergraduates

P10

Tsinghua holds opening convocation for 2026 graduate students

P12

Tsinghua University wins 2025 State Science and Technology Awards

P13

Nobel Laureate in Chemistry Omar M. Yaghi joins Tsinghua University full-time

P15

Tsinghua Humanities Centennial Exhibition: A new chapter in a century-old legacy



GLOBAL ENGAGEMENT

P18

Tsinghua University hosts the Sixth Global Forum on the Development of Computer Science

P19

AI+Education Forum on "Reimagining the University for an AI-Driven Future" held during the 2026 World AI Conference

P22

Global scientists convene in Beijing for the 2026 International Congress of Basic Science

P24

Qiu Yong leads delegation to South Korea

P26

Qiu Yong leads delegation to Germany

P28

Tsinghua University President Li Luming visits the UK and France



RESEARCH

P33

Bringing classical optics into the quantum world – Joint team from Tsinghua, USTC, and BAQIS realizes a new framework for Fock-space optics

P36

Tsinghua scholars deeply engaged in the development of The Economic and Health Case for Climate and Clean Air Action

P36

Tsinghua researchers develop an in situ TGF- β 1 capture strategy to promote tendon regeneration



TSINGHUA COMMUNITY

P40

Tsinghua's Youth2Real team excels at ICRA 2026 robotics competitions

P41

Tsinghua research team honored with 2025 IEEE TPDS Best Paper Award

P42

Sir John Pendry appointed Honorary Professor, delivers Tsinghua Global Vision Lecture

Tsinghua holds conference to chart the next century for foreign languages and literatures

Tsinghua University held a conference on the development of foreign languages and literatures in the new century on September 19. Qiu Yong, secretary of the CPC Tsinghua University Committee; Ning Qi, deputy secretary of the Party Committee and vice president of Peking University; and Professor Li Li, pro-vice-chancellor, global at Newcastle University, attended the conference and delivered remarks. Peng Gang, vice president of Tsinghua University, and Li Yiqun, assistant to the president of Beijing Foreign Studies University, also attended the conference.

Qiu Yong extended a warm welcome, on behalf of the University, to the guests attending the conference and offered his sincere congratulations to all faculty,

staff, students, and alumni of the Department of Foreign Languages and Literatures (DFLL). He noted that Tsinghua's discipline of foreign languages and literatures has a long history. As early as its founding in 1911, the University already offered courses in English, German, French, and Latin. In 1926, the Department of Western Literatures was established as one of the University's first 17 departments.

Looking back over the past century, from Tsinghua to National South-West Associated University, the Department advanced scholarship through the integration of Chinese and Western learning and served the nation during the War of Resistance against Japanese Aggression. The example set by



Venue of the conference

distinguished scholars and their commitment to the country were mutually reinforcing, giving rise to academic traditions of liberal education and integrating Chinese and Western learning, as well as a patriotic tradition of devotion to the country and perseverance in the face of hardship. From the difficult years of preserving the discipline after the department was dissolved to the reform and development following its restoration, the Department has consistently regarded serving the country and cultivating talent as its mission. It has preserved a century-old humanistic legacy, strengthened the foundation for university-wide foreign language instruction, and continuously advanced professional education and discipline development. Since the beginning of the new era, the Department has upheld its traditions while pursuing innovation. Its academic fields have continued to expand, and the quality of talent cultivation has steadily improved. It has gradually developed into a major center for foreign-language scholarship and talent cultivation, rooted in China, oriented toward the world, and committed to serving dialogue among civilizations.

Qiu Yong emphasized that the century-long history of foreign languages and literatures at Tsinghua has resonated with the rejuvenation of the Chinese nation and has been closely bound up with the nation's destiny. It has been a century of upholding liberal education, advancing scholarship through the sustained integration of Chinese and Western learning, and shouldering the mission of the times. Generation after generation of faculty and students of the Department have carried the torch forward and worked tirelessly, writing a distinctive Tsinghua chapter in the development of foreign-language disciplines in China.

Standing at the starting point of its second century, Qiu Yong called on the DFLL to uphold the fundamental task of fostering virtue and cultivating people, and to nurture well-rounded professionals with a commitment to the country, a global outlook, and strong professional capabilities. He called for advancing interdisciplinary integration and exploring more deeply the connections among language, cognition, culture, and artificial intelligence, continuously strengthening the discipline's capacity for independent innovation, and developing more original concepts and theories with Tsinghua characteristics. He also called for deepening international exchanges and cooperation to serve

national strategies and high-standard opening-up, remaining rooted in China and at the forefront of the times, making China's voice heard on the world stage and contributing greater Tsinghua wisdom to people-to-people exchanges between China and other countries and to the progress of human civilization.

Ning Qi said that the DFLL at Tsinghua has consistently integrated its own development into the destiny of the country, the future of the Chinese nation, and the needs of the times. In recent years, guided by its development vision for its second century, the DFLL has made comprehensive progress in such areas as discipline development, talent cultivation, research innovation, and international cooperation. Peking University stands ready to continue working hand in hand with Tsinghua University to advance foreign language education in China and foster innovation in the independent knowledge system of foreign languages and literatures, contributing greater wisdom and strength to serving national strategies, deepening exchanges and mutual learning among civilizations, and helping build a new form of human civilization.

Li Li said that over the past century, the DFLL at Tsinghua has passed down its legacy from generation to generation, gathered distinguished scholars, and nurtured outstanding students, establishing a benchmark for the discipline of foreign languages and literatures in China. Newcastle University and the DFLL at Tsinghua share deep academic ties spanning more than a century. The two universities look forward to further deepening China-UK higher education cooperation in the humanities, focusing on areas of shared strength to jointly develop benchmark projects in China-UK humanities cooperation and build an international academic community based on equality and mutual learning.

Wu Xia, dean of the DFLL, reviewed the century-long evolution of the discipline of foreign languages and literatures at Tsinghua. She said that the Department's century-long evolution not only bears witness to the way generations of scholars in the Department who have integrated their academic ideals into the broader strategic landscape of the nation, but also reflects the broader trajectory of the foreign-language discipline as it evolved alongside China's modernization. At this new starting point following the centenary of the Department's establishment, Tsinghua's foreign languages and literatures discipline will carry forward its century-old tradition, remain firmly committed to its core

mission of serving national strategies, and cultivate foreign-language professionals with both a strong commitment to the country and a global outlook, contributing to the advancement of Chinese modernization and the building of a community with a shared future for humanity.

Gao Yang, associate dean of the DFLL, spoke as a faculty representative, followed by Wu Shuyao, an undergraduate student who enrolled in 2023, who spoke as a student representative. The conference was chaired by Zhang Yining, associate dean of the DFLL. Attendees watched a video commemorating the Department's 100th anniversary, along with a video featuring messages of congratulations.

More than 160 participants attended the conference, including heads of schools of foreign languages

from nearly 30 peer universities in China, such as Peking University, Renmin University of China, Nankai University, Fudan University, Shanghai Jiao Tong University, Shanghai International Studies University, Nanjing University, Zhejiang University, Wuhan University, and Huazhong University of Science and Technology; alumni representatives; retired and current leaders, faculty and staff, and student representatives of the DFLL; and heads of relevant schools, departments, and administrative offices at Tsinghua. A series of activities were also held alongside the conference, including the Forum on the Development of the Discipline of Foreign Languages and Literatures and the Construction of the Independent Knowledge System, as well as the DFLL Alumni Development Forum.

14th World Peace Forum opens at Tsinghua, highlighting global governance and international security cooperation

On the morning of July 3, the 14th World Peace Forum, co-hosted by Tsinghua University and the Chinese People's Institute of Foreign Affairs, opened at Tsinghua University's Main Building. Chinese Vice President Han Zheng attended and addressed the opening ceremony.

Under the theme "Global Governance and International Security Cooperation: Integrity, Innovation, and Inclusiveness," the opening ceremony was attended by about 400 participants, including renowned strategists, think tank leaders, diplomatic envoys to China, and scholars from China and abroad. Wu Ken, President of the Chinese People's Institute of Foreign Affairs; Ren Youqun, Vice Minister of Education; and Qiu Yong, Secretary of the CPC Tsinghua University Committee, attended the opening ceremony. Li Luming, President of Tsinghua University and Chairman of the World Peace Forum, delivered a welcome speech, and Yang Bin, Vice Chancellor of

Tsinghua University Council and Secretary-General of the World Peace Forum, presided over the ceremony. Other attendees included Cai Wei, Assistant Foreign Minister; Luo Zhaohui, former Chairman of the China International Development Cooperation Agency; and Ai Ping, Vice-President of the Chinese Association for International Understanding.

China will take the World Artificial Intelligence (AI) Conference and High-Level Meeting on Global AI Governance as an opportunity to strengthen exchanges and cooperation with all parties to build a global AI governance system based on broad consensus, Chinese Vice President Han Zheng said on Friday.

Han made the remarks when addressing the opening ceremony of the 14th World Peace Forum in Beijing, calling for strengthening governance in emerging fields like AI.



Chinese Vice President Han Zheng attends and addresses the opening ceremony of the 14th World Peace Forum at Tsinghua University. Photo by Ding Lin/Xinhua

China has put forward the Global AI Governance Initiative, advocating a people-centered approach and the development of AI for the good of humanity, Han said.

The world is undergoing accelerated transformation unseen in a century, with growing instability and turbulence, frequent geopolitical conflicts, and more prominent risks and governance deficits, Han noted.

Chinese President Xi Jinping has put forward the Global Governance Initiative to promote the building of a more just and equitable global governance system, injecting much-needed stability and positive energy into the world, he said.

Han added that China has always taken concrete actions to uphold the central role of the United Nations in international affairs and faithfully fulfilled its duties and missions as a permanent member of the Security Council. He expressed China's willingness to work with all countries to maintain

the post-war international order and uphold international fairness and justice.

As the host of the 33rd APEC Economic Leaders' Meeting, China will work with all partners in building an Asia-Pacific community, Han said.

China will continue to expand high-standard opening up and work with all countries to promote a universally beneficial and inclusive economic globalization, he stated.

Li Luming said that, as China's first high-level non-governmental international security forum, the World Peace Forum has always upheld the principles of openness, inclusiveness, pragmatism, professionalism and innovation, and has carried out in-depth dialogue and discussion on key issues and major strategies in the field of international security.

Universities are important bridges for exchanges and mutual learning among civilizations and play



an irreplaceable role in strengthening people-to-people bonds. Tsinghua University has long been committed to cultivating outstanding talent with global competence, producing innovative achievements with global impact, advancing high-level opening-up, further implementing its global strategy, expanding its international exchange network, promoting in-depth exchanges between Chinese and international faculty and students, and building multilateral cooperation platforms. Through these efforts, Tsinghua has sought to contribute the wisdom and expertise of universities to jointly address global challenges and promote the well-being of all humanity.

Li said that as global governance has reached a new crossroads, it is important to stay committed to the right direction, pursue innovation in governance, and ensure that the outcomes of cooperation are shared. He expressed hope that the guests would engage in candid exchanges, deepen mutual understanding and strengthen cooperation, so as to seek consensus that brings certainty to a world marked by turbulence and change, contribute new ideas and proposals to improving the global governance

system, and gather strong momentum for building a community with a shared future for mankind.

Mushahid Hussain Sayed, former Chairman of the Senate Foreign Relations Committee of Pakistan and former Chairman of the Senate Defence Committee of Pakistan, said that world history has entered a new chapter and that the global governance system is showing a positive trend of development. He said countries should remain optimistic and work together to shape a more peaceful and prosperous future.

Kim Sung-Hwan, former Minister of Foreign Affairs and Trade of the Republic of Korea, said history shows that the more unstable the situation becomes, the greater the need for dialogue. Peace is never achieved overnight, he said, adding that countries should make sustained efforts to strengthen exchanges and mutual trust, and deepen dialogue and cooperation.

In the first plenary session held in the morning, themed "Rebuilding Peace in the Middle East," Yan Xuetong, Honorary President of the Institute of International Relations at Tsinghua University,

moderated a dialogue with Hina Rabbani Khar, former Minister of Foreign Affairs of Pakistan; Abdel Elah Al Khatib, former Minister of Foreign Affairs of Jordan; and Gareth Evans, former Minister for Foreign Affairs of Australia.

Khar shared Pakistan's efforts to help maintain regional peace and stability and promote peaceful coexistence between regions, and said that conflicts should be resolved through dialogue and consultation. Al Khatib said the question of Palestine lies at the heart of Middle East issues, adding that most countries in the international community view the war as a war of choice rather than a war of necessity. Evans said national security concerns cannot be resolved through killing and hopes that a solution could be reached

through diplomacy and cooperation.

The three-day forum features four plenary sessions, one lunch dialogue and 21 panel discussions. The plenary sessions focus on themes including "Rebuilding Peace in the Middle East," "Major-Power Relations and World Peace," "Global South and Reform of Global Governance" and "Regional Conflicts and Security Architecture Innovation." Participants are engaging in in-depth exchanges on major issues related to global governance and international security cooperation, exploring ways to stay committed to the right direction, improve the global governance system, deepen international security cooperation, jointly respond to global challenges, and promote world peace and common development.

Tsinghua holds opening convocation to welcome new undergraduates



The main venue of the opening convocation



Qiu Yong pins a Tsinghua badge for a new student representative.

Tsinghua University held an opening convocation to welcome its incoming undergraduates on August 20. Over 4,000 undergraduates embarked on a new journey at Tsinghua in 2026.

Leaders of the University attended the ceremony, including Qiu Yong, Li Luming, Xiang Botao, Zeng Rong, Guo Yong, Zhao Gang, Xu Qinghong, Wang Hongwei, Bai Benfeng, Wu Huaqiang, Li Zhihua, and Wang Yayu. Tsinghua Vice President and Provost Peng Gang presided over the opening convocation.

Qiu Yong, secretary of the CPC Tsinghua University Committee, pinned a Tsinghua badge for the undergraduate student representative.

Tsinghua University President Li Luming delivered a speech titled "Pursuing a Lifelong Passion and Making the Most of the Years of Youth" at the opening convocation, extending a welcome to the new students on behalf of the University's faculty, students, and staff.

Li said that this year marks the 90th anniversary of the victory of the Red Army's Long March. Learning from this history and carrying forward the spirit of the Long March would greatly benefit students as they embark on a new journey and face new challenges. He emphasized that helping students discover their lifelong passions, move forward through challenges, and ultimately achieve more meaningful lives represents an important value of university education. Li expressed his hope that students would explore their passions at Tsinghua and find the beacon that guides their lives; withstand challenges and trials and remain steadfast in their



Li Luming delivers a speech.

passions; elevate their passions and create greater value; live up to the great trust entrusted to them by the times and make the most of their youth; walk the Long March of the new era with resolve; and contribute their wisdom and strength to achieving the great rejuvenation of the Chinese nation and promoting the building of a community with a shared future for humanity.

Hu Shimin, an academician and professor in the Department of Computer Science and Technology, delivered a speech on behalf of the University's faculty. He encouraged students to actively embrace the era of artificial intelligence and possess unique ideas, elevated taste, critical thinking, and a spirit of pursuing perfection, so that they can better navigate the transition from high school to university and the changes in higher education in the age of artificial intelligence.



Hu Shimin delivers a speech.



Miao Shuo speaks at the opening convocation.

Miao Shuo, president of the Student Union, delivered a speech on behalf of the entire student body. He shared his reflections and insights from his undergraduate years, hoping that younger students would seek certainty amid uncertainty and transform the confidence gained through growth, the strength of moving forward together, and their commitment to the nation into a steadfast answer to growing into capable individuals and serving the country.

Han Huicheng from Ziqiang College, a representative of the incoming undergraduate class, spoke at the convocation. He shared his personal journey of striving for his aspirations and working hard to realize



Han Huicheng speaks at the opening convocation.

his dream of studying at Tsinghua. Looking ahead, he hopes to sink his roots deep into the soil of his country, drawing inexhaustible strength from the land; grow upward alongside his fellow travelers, shoulder to shoulder, and embrace his responsibilities on the journey toward national rejuvenation.

Tsinghua University held the opening convocation in a hybrid online and offline format. Besides the main venue at the University Gymnasium, three venues were set up across campus for freshmen's families and friends. The event was also live-streamed on the "Rain Classroom" platform.



Freshmen attending the opening convocation



Tsinghua holds opening convocation for 2026 graduate students

Tsinghua University held the opening convocation for its 2026 graduate students on the morning of August 27. Secretary of the CPC Tsinghua University Committee Qiu Yong, Tsinghua University President Li Luming, and other leaders of the University attended the opening convocation. Tsinghua Vice President Wang Yayu presided over the ceremony.

Qiu Yong, secretary of the CPC Tsinghua University Committee, pinned a Tsinghua badge for the graduate student representative.

Tsinghua University President Li Luming delivered a speech titled "Embracing the World with Openness and Inclusiveness," extending a welcome to the

new graduate students on behalf of the University's faculty, students, and staff. He said that openness and integration represent an inevitable trend in the development of human society and an essential choice for jointly addressing common challenges. Openness and inclusiveness are also an important source of the enduring vitality of Chinese civilization.

Li noted that, through its commitment to openness in education, Tsinghua University has forged a path toward building a world-class university rooted in China. He expressed his hope that students would deepen their cultural roots and embrace the world with confidence grounded in their heritage; cultivate an inclusive mindset and embrace the world with



The main venue of the opening convocation



Qiu Yong pins a Tsinghua badge for a new student representative.



Li Luming delivers a speech.

a broad perspective; and shoulder the mission of the times and embrace the world with innovation-driven leadership. He encouraged students to move forward with determination on the path of openness and contribute their youthful strength to building a stronger country, achieving national rejuvenation, and advancing human progress.

Luo Guangsheng, an academician and a professor in the Department of Chemical Engineering, delivered a speech on behalf of all faculty members. As they embarked on their graduate studies, he encouraged the students to gradually transform their way of thinking, to set their academic aspirations on addressing the country's most critical needs and exploring the frontiers of their disciplines, and to pursue their research with patience, perseverance, and long-term commitment. With such resolve, they could forge ahead and achieve breakthroughs.

Chen Zihan, president of the Tsinghua Graduate Student Union, shared his reflections and insights from eight years at Tsinghua, encouraging new students to step beyond disciplinary boundaries, spark new ideas through interdisciplinary exchange, pursue their passions, and answer the call of the country with a steadfast commitment to serving the nation. He encouraged them to make every step of their boundless exploration a vibrant expression of their own identity—one that belongs uniquely to them and is shaped by no one else.

Zuo Weibo, a doctoral student from the School of Life Sciences, spoke on behalf of the incoming students. He shared his story of more than a decade of pursuing knowledge, from a small mountain village to Tsinghua University. Looking ahead, he urged fellow students to honor Tsinghua's legacy, integrate their personal aspirations into the broader cause of



Luo Guangsheng delivers a speech.



Chen Zihan speaks at the opening convocation.



Zuo Weibo speaks at the opening convocation.

national development, boldly explore new paths, and persevere with resilience, striving through concrete actions to write a youth chapter worthy of the times.

Tsinghua University held the opening convocation in a hybrid online and offline format. The event was also live-streamed on the "Rain Classroom" platform. The incoming graduate students from the Tsinghua Shenzhen International Graduate School attended the ceremony online, along with their families, as well as faculty, alumni, and friends from various sectors who support the University's development.



New students attend the opening convocation.

Tsinghua University wins 2025 State Science and Technology Awards

The winners of the 2025 State Science and Technology Awards were announced in Beijing on July 8 at a meeting that brought together the National Science and Technology Award Conference, the General Assemblies of the Members of the Chinese Academy of Sciences and the Chinese Academy of Engineering, and the 11th National Congress of the China Association for Science and Technology. A total of 258 projects and 11 scientists were honored for scientific and technological achievements.

Tsinghua University received 19 State Science and Technology Awards, including two State Natural Science Awards, four State Technological Invention Awards, and 13 State Scientific and Technological Progress Awards. Seven of these awards were conferred on projects where Tsinghua faculty served as the lead principal contributors, or Tsinghua University acted as the lead institution.

Nobel Laureate in Chemistry Omar M. Yaghi joins Tsinghua University full-time

On the morning of July 3, Tsinghua University held the Appointment Ceremony for Professor Omar M. Yaghi as Chair Professor of Tsinghua University at the Main Building. Professor Omar M. Yaghi, 2025 Nobel Laureate in Chemistry and one of the world's foremost chemists and materials scientists, has joined Tsinghua University on a full-time basis. Qiu Yong, Secretary of the CPC Tsinghua University Committee, and Li Luming, President of Tsinghua University, attended the ceremony. Several academicians, including Andrew Chi-Chih Yao, Gao Huajian, Chen Deliang, Li Yadong, Cheng Jinpei, Zhang Hongjie, and Li Jun, as well as representatives from other universities, also attended the ceremony. The ceremony was presided over by Wang Hongwei, Vice President of Tsinghua University.

Li Luming, on behalf of Tsinghua University, extended a warm welcome and sincere congratulations to Professor Omar M. Yaghi on his appointment to a full-time position at Tsinghua. He noted that high-caliber scholars are essential to enhancing a university's educational quality and capacity for talent cultivation. In recent years, Tsinghua University has pursued its core strategy of strengthening the university through talent, actively attracting the world's leading scholars and providing strong support for cultivating outstanding talent and achieving greater self-reliance and strength in science and technology. Li said that Professor Yaghi is one of the world's foremost chemists and materials scientists and has long-standing ties with Tsinghua. He

expressed the hope that Professor Yaghi would inject strong momentum into the high-quality development of Tsinghua's chemistry discipline as it enters its new century, bring together multiple disciplines to focus on frontier and interdisciplinary fields, and jointly write a new chapter in Tsinghua's journey toward the forefront of world-class universities.

Omar M. Yaghi said that when he was ten years old, he fell in love with molecules. That early passion for science, he said, led him to cross geographical and cultural boundaries, learn new ways of thinking, and develop a new field of science. Today, his work addresses some of the world's most pressing challenges, including water, carbon, sustainability, and the future of life on this planet. He noted that the journey of scientific research was not always easy, but that science has a remarkable way of turning uncertainty into discovery, teaching people to approach the unknown with curiosity, discipline, and courage. In choosing Tsinghua, he said he was ready to begin again at this great university, not to slow down, not to repeat what has already been done, but to do science with more energy, more intensity, and more ambition than ever before. He looked forward to working with colleagues at Tsinghua to address the challenges of the times, build new frontiers of knowledge, and ensure that scientific discovery serves the world. "The molecules are calling me forward once more — with renewed energy, renewed purpose, and deep gratitude for the people and the university that

now become part of this new journey," Yaghi said.

Andrew Chi-Chih Yao, Dean of the Institute for Interdisciplinary Information Sciences and Dean of the College of AI at Tsinghua University, and an Academician of the Chinese Academy of Sciences, said he was deeply honored to witness such a joyful and meaningful occasion. AI for Science is a frontier area that Tsinghua has prioritized in its strategic development, he said, and Professor Yaghi's pioneering work in AI-enabled materials science is highly aligned with the development directions of the Institute for Interdisciplinary Information Sciences and the College of AI. Yao said he looked forward to in-depth exchanges and collaboration with Professor Yaghi and his team, and to working together to produce more groundbreaking innovations.

Liu Lei, Chair of the Department of Chemistry, noted that 2026 marks the centenary of Tsinghua's Department of Chemistry. Over the past century, he said, the department has remained rooted at the frontiers of science and committed to making breakthroughs. Standing at this new starting point, Liu said he looked forward to working side by side with Professor Yaghi to explore new breakthroughs at the frontiers of AI-enabled molecular materials science and to jointly scale new heights in the development of the discipline.

Related link:

Omar M. Yaghi is the 2025 Nobel Laureate in Chemistry. He is also a Foreign Member of the Chinese Academy of Sciences, a member of the U.S. National Academy of Sciences, a member of the American Academy of Arts and Sciences, and a member of the German National Academy of Sciences Leopoldina. Born in Amman, Jordan, in 1965, he received his Ph.D. in Chemistry from the University of Illinois at Urbana-Champaign in 1990 and went on to conduct postdoctoral research at Harvard University. He has held faculty positions at several leading U.S. universities and joined the University of California, Berkeley in 2012, where he held the James and Neeltje Tretter Chair in Chemistry and also served as a Senior Faculty Scientist at Lawrence Berkeley National Laboratory. Yaghi has received dozens of major international academic honors, including the Albert Einstein World Award of Science, the Wolf Prize in Chemistry, and the Balzan Prize.

Yaghi's research spans the synthesis, structure and properties of inorganic and organic compounds, as well as the design and construction of new crystalline materials. His building-block approach has catalyzed exponential growth in the creation of new materials, generating unprecedented chemical diversity. He



Omar M. Yaghi delivers remarks.

pioneered metal-organic frameworks (MOFs), covalent organic frameworks (COFs), and molecular weaving, and first defined "Reticular Chemistry" as a new field of research. To date, Yaghi has published more than 300 papers, with his work cited more than 260,000 times. More than 30 of his papers have appeared in Nature and Science.

Omar M. Yaghi has long-standing ties with Tsinghua University. On January 14, 2022, Tsinghua University appointed him as an Honorary Professor. Over the years, he has closely followed the development of Tsinghua's chemistry, materials science and related disciplines, and the two sides have maintained close engagement in academic exchange and talent cultivation. After joining Tsinghua full-time, Yaghi will lead the establishment of a university-level AI Chemistry and Materials Research Institute, AIMATRY (AI × Materials × Chemistry). Building on the Department of Chemistry and the Department of Chemical Engineering, and working in close collaboration with the College of AI, the Department of Computer Science and Technology, the School of Materials Science and Engineering, and other schools and departments, the institute will develop forward-looking AI-enabled technologies for materials design and synthesis, with the aim of achieving an order-of-magnitude compression of new materials R&D cycles. It will build an intelligent R&D system spanning the full chain from theory and computation to R&D and production, seek to overcome the efficiency bottlenecks of traditional trial-and-error approaches, and establish an independent technical standards system covering the full lifecycle of intelligent materials. In talent cultivation, Yaghi will leverage his international influence to work with leading scholars in related fields to build an integrated AI+Chemistry teaching and research platform at Tsinghua. Through interdisciplinary courses, small-class teaching and practical training, the platform will continue to cultivate high-level interdisciplinary talent for emerging fields such as AI+materials chemistry.



Omar M. Yaghi joins Qiu Yong and Li Luming for a commemorative photo.



Li Luming presents the appointment letter to Omar M. Yaghi.

Tsinghua Humanities Centennial Exhibition: A new chapter in a century-old legacy

For a century, the pursuit of learning has never ceased, and Tsinghua's humanistic tradition has been passed down through generations. On August 29, the Tsinghua Humanities Centennial Exhibition opened at the Tsinghua University Art Museum. Drawing on rare historical materials, archival footage, and academic documents, the exhibition traces the origins and development of humanistic scholarship at Tsinghua, brings historic humanistic landmarks back to life, highlights leading scholars, and showcases landmark achievements. It reveals the commitment and sense of responsibility with which Tsinghua's humanities have advanced with the times and shared the destiny of the nation.

The exhibition is organized into six thematic sections, following a narrative structure that moves from spiritual origins and physical spaces to key figures, achievements and contributions, the transmission of the legacy to younger generations, and visions for the future. Through a variety of exhibition formats, the six sections offer visitors an immersive experience of the

century-long development and enduring spirit of the humanities at Tsinghua.

Of particular note is a selection of precious artifacts on display, including a camera once used by Zhao Yuanren, a seal carved by Wen Yiduo for Hua Luogeng, an inkstone that Qian Jibo presented to Qian Zhongshu, the manuscript of Yang Jiang's *We Three*, Chen Daisun's faculty badge, a jinghu presented by Zhu Rongji to Tsinghua's Peking Opera troupe, and a copy of *Erya Yishu* that survived a fire.

The first section traces the development of the humanities at Tsinghua and offers a sweeping view of the evolution of the University's humanities disciplines. The second section brings Tsinghua's humanistic heritage to life through scenes, moments, and snapshots from the past, making it tangible and vividly present. The third section invites visitors to encounter leading figures in the humanities who once walked the Tsinghua campus. Through their personal notes, books they once read, and writing implements they once used, visitors can gain a sense of their integrity and breadth of mind, as well as their scholarship and character.

The fourth section presents the research achievements of Tsinghua scholars in the humanities, including honors, awards, and publications. It highlights the ideas and reflections that emerged from their intellectual journeys, helping visitors appreciate how these ideas have served as guiding lights for those who followed. The fifth section showcases the rich and varied lives of



Faculty Badge of National South-West Associated University Worn by Chen Daisun (No. 191)

Collection of the Tsinghua University Archives, 1939



A Camera Once Used by Zhao Yuanren

Collection of the Tsinghua University Archives, c. 1938–1948



Tsinghua Sports Team Uniform, 1960s

Collection of the Division of Sports Science and Physical Education, Tsinghua University, 1960s

Tsinghua students. Through the exhibits, visitors can experience the vitality of youth and see how young people have grown on campus before setting out into the wider world. The sixth section brings the exhibition to a close with 12 interview videos and an interactive area where visitors are invited to take part in and witness the future development of the humanities at Tsinghua.

Looking back at the development of Tsinghua's humanities, the century-old dedication to scholarship has remained rooted in a continuous tradition. When the Institute of Chinese Classics was established in 1925, its call to "seek out the soul of China" still echoes a century later. The commitment of earlier generations of scholars to academic independence resonates with today's mission of developing an independent knowledge system for Chinese philosophy and social sciences.

A new century for the humanities at Tsinghua has now begun with a renewed sense of mission.



建设世界一流 哲学社会科学期刊方阵



Building a World-Class Lineup of Journals in Philosophy and Social Sciences

GLOBAL ENGAGEMENT

Tsinghua University hosts the Sixth Global Forum on the Development of Computer Science

The Sixth Global Forum on the Development of Computer Science was held in Shanghai on the morning of July 17 as a hybrid event. Professor Wu Huaqiang, vice president of Tsinghua University, attended the forum and delivered remarks. The forum was co-chaired by Professor Dame Wendy Hall, former president of the Association for Computing Machinery (ACM) and associate vice president of the University of Southampton, and Professor Wu Jianping, academician of the Chinese Academy of Engineering and professor in Tsinghua University's Department of Computer Science and Technology.

Under the theme "The New Mission of the Computer Science," the forum brought together leading scholars and heads of computer science schools and departments from dozens of universities. Participants included Professor Tan Tieniu, academician of the Chinese Academy of Sciences and chair of Nanjing

University CPC Council; Professor Miao Chunyan, associate vice president of Nanyang Technological University; Professor Aad van Moorsel, head of the School of Computer Science at the University of Birmingham; Professor Peter Stone, chair of the Department of Computer Science at the University of Texas at Austin; Professor Nancy M. Amato, director of the Siebel School of Computing and Data Science at the University of Illinois Urbana-Champaign; and Professor Xiaofang Zhou, head of the Department of Computer Science and Engineering at the Hong Kong University of Science and Technology. Representatives from Fudan University, Zhejiang University and other universities also attended. The participants explored new approaches to advancing the high-quality development of computer science amid the challenges of a new era. The forum was moderated by Professor Yin Xia, dean of Department of Computer Science and Technology of Tsinghua University.



Group photo of forum participants

In his welcome address, Professor Wu Huaqiang noted that educational paradigms suited to the age of artificial intelligence are still being explored. Concrete and feasible approaches are urgently needed to harness AI's potential in teaching, scientific research and talent development, he said. Professor Wu expressed the hope that the forum would provide a platform for scholars to build consensus and lay a solid foundation for the future development of the discipline.

Professor Dame Wendy Hall reviewed the 70-year evolution of artificial intelligence from a theoretical concept to a transformative technology. She stressed that advances in AI must be aligned with ethical standards and social responsibility so that the technology can genuinely benefit all humanity.

During the keynote session, Professors Peter Stone, Nancy M. Amato and Xiaofang Zhou shared their universities' experiences and practices in AI education.

The panel discussion focused on "Global Collaboration and Higher Education in Computer Science in the Age of AI." Professors Tan Tieniu, Miao Chunyan, Aad van Moorsel, Peter Stone, Nancy M.

Amato, and Xiaofang Zhou exchanged views on reforming evaluation systems, redefining the core values of the discipline, restructuring academic departments, developing new models of university-industry-research collaboration, and maintaining international cooperation amid geopolitical challenges. The speakers emphasized the importance of upholding the spirit of open science and strengthening collaboration across disciplines and industries.

The Global Forum on the Development of Computer Science is a high-level international academic forum hosted by Tsinghua University. It brings together leaders of computer science schools and departments at the world's leading universities to advance the discipline globally. This year's forum highlighted that universities need to redefine computer science education and research paradigms in response to the AI revolution. Forum participants stressed the importance of boosting the discipline's impact through flexible organizational structures and deeper collaboration among universities, industry and research institutions.



The AI+Education Forum is held at the 2026 WAIC, bringing together nearly 1,300 global scholars to discuss AI transformation in universities.

AI+Education Forum on "Reimagining the University for an AI-Driven Future" held during the 2026 World AI Conference

The AI+Education Forum, themed "Reimagining the University for an AI-Driven Future," was held in Shanghai on July 17 during the 2026 World AI Conference (WAIC) and High-Level Meeting on Global AI Governance.

Xu Qingsen, vice minister of Education, and Xie Dong, vice mayor of Shanghai, addressed the forum. Li Luming, president of Tsinghua University and chair of the AI Open Alliance, delivered a work report titled "Open Collaboration, Co-construction and Shared

Benefits: Innovative Practices and Future Prospects of the AI Open Alliance." The forum was chaired by Wu Huaqiang, vice president of Tsinghua University and secretary-general of the AI Open Alliance.

Xu Qingsen said that artificial intelligence is profoundly reshaping the landscape of education. China is advancing the National Strategy for Digital Education and has launched the "AI Plus Education" initiative. He stressed the need to remain committed to a people-centered approach, promoting deep

integration, and ensuring AI is developed in an open and beneficial manner. He called for reshaping talent cultivation through human-AI co-education, transforming paradigms for teaching and research through AI empowerment, and fostering a collaborative governance ecosystem for education, so as to make new and greater contributions to the progress of human civilization.

Xie Dong said that Shanghai has identified artificial intelligence as a pioneering industry and is accelerating efforts to build a globally competitive hub for AI innovation. Looking ahead, Shanghai will continue to work with the global education, science and technology, and industrial communities to promote the mutual empowerment of AI and higher education, advance exchanges and cooperation on best practices, deepen collaborative innovation between industry and education, support young people in pursuing innovation, and explore the boundless potential of AI together.

Li Luming introduced the mission, objectives, operational mechanism and achievements of the AI Open Alliance. He said that since its establishment, the Alliance has proactively contributed to broader national efforts to advance open cooperation in artificial intelligence and continuously improved its institutional framework. The Alliance has achieved significant progress in AI for education, AI for science, AI fundamental engineering, AI ethics and governance, and global AI collaboration. Looking ahead, Tsinghua University will continue to fully support the development of the Alliance and, together with all Alliance members, uphold openness and collaboration, pursue joint development and shared success, and strive to make the Alliance a source of innovation in AI technologies, an important platform for international cooperation in artificial intelligence, and a strategic hub for advancing AI talent cultivation. Together, Tsinghua University and all Alliance members will lead the global development of AI-enabled

education, promote the development of ecosystems for intelligent computing, collaborative innovation and open sharing, and make greater contributions to building China into a leading country in education, science and technology, and talent development.

During the keynote session, Turing Award laureate Andrew Chi-Chih Yao, dean of the Institute for Interdisciplinary Information Sciences and dean of the College of AI at Tsinghua University, and academican of the Chinese Academy of Sciences, delivered a keynote speech titled "Reflections on Talent Development in the Intelligent Era." He emphasized that talent development should foster both innovative thinking and strong execution capabilities.

Nobel Laureate in Chemistry, Tsinghua Chair Professor, and foreign member of the Chinese Academy of Sciences Omar M. Yaghi delivered a keynote speech titled "University Research and Mentoring in the Age of AI." He noted that scientific research should shift its focus from asking "What should we create?" to asking "Why should we create?"

Mutlu Cukurova, Professor of Learning and Artificial Intelligence at the University College London, delivered a keynote speech titled "The Talent Paradox: From AI That Outperforms Us to AI That Grows Us." He said that a people-centered approach should guide the restructuring of education systems for human-AI collaboration.

Li Luming moderated the Presidents' Dialogue, where he joined Gao Song, president of Peking University; Han Jiecai, president of Harbin Institute

of Technology; Ding Kuiling, president of Shanghai Jiao Tong University; Ma Yugang, president of East China Normal University; You Zheng, president of Huazhong University of Science and Technology; and Lionel Ming-Shuan NI, president of the Hong Kong University of Science and Technology (Guangzhou), in an in-depth discussion on how universities can transform in the age of AI.

During the Expert Presentation, Dragan Gasevic, Chair Professor of Faculty of Education, The University of Hong Kong, and Zachary A. Pardos, Director of the Computational Approaches to Human Learning Research Lab, University of California, Berkeley, delivered presentations titled "Productive Human-AI Interaction Requires Human Learning" and "Advances in Adaptive Learning for Higher Education," respectively, drawing on their own teaching and research experiences.

The forum also featured "AI-Empowered Education Practice Showcases," where Peking University, Fudan University, Tencent, Shanghai Jiao Tong University, East China Normal University, Huazhong University of Science and Technology, Shenzhen Loop Area Institute, and Huawei presented their achievements.

The forum was held under the guidance of the World Artificial Intelligence Conference Committee and hosted by the AI Open Alliance, with Tsinghua University, Peking University, Shanghai Jiao Tong University, East China Normal University and Huazhong University of Science and Technology serving as co-organizers. Nearly 1,300 experts and scholars from both China and abroad attended the forum.



Presidents' Dialogue at the 2026 WAIC AI+Education Forum

Global scientists convene in Beijing for the 2026 International Congress of Basic Science

The 2026 International Congress of Basic Science (ICBS 2026) opened on August 9 at the Beijing Yanqi Lake International Convention and Exhibition Center.

Attending the opening ceremony were Yin Li, secretary of the CPC Beijing Municipal Committee; Yin Yong, deputy secretary of the CPC Beijing Municipal Committee and mayor of Beijing; Zhang Guangjun, vice minister of science and technology; Feng Shenhong, vice president of the China Association for Science and Technology; Li Luming, president of Tsinghua University; Wang Hongwei, vice president of Tsinghua University; Fields Medalists

Shing-Tung Yau, Maxim Kontsevich, Martin Hairer and Caucher Birkar; and Turing Award laureate Robert Tarjan, among others.

In his remarks, Yin Li welcomed scientists and experts from China and abroad to Beijing for the congress. He said that global scientific and technological innovation is entering a phase of intensive and dynamic activity. Profound changes are taking place in the paradigms of basic scientific research. These changes are accelerating interdisciplinary integration and cross-sector collaboration and innovation, alongside continued breakthroughs



The opening ceremony of the 2026 International Congress of Basic Science in Beijing

in frontier fields. President Xi Jinping has pointed out that mankind needs international cooperation, openness and sharing more than ever in order to address common development problems. Beijing is a vibrant international metropolis where ancient and modern cultures converge, as well as fertile ground for scientific and technological innovation and talent development. At present and in the period ahead, Beijing is committed to accelerating the development of itself into an international center for scientific and technological innovation and a high-level hub for talent.

He expressed hope for joint efforts to advance human progress, identify major scientific questions, promote breakthroughs in cutting-edge theories, and continuously produce more original achievements, so that scientific progress can better benefit people around the world.

He stressed the importance of fostering a world-class research environment, developing policies aligned with the long-term nature of basic research, and building systematic platforms for cultivating talent in basic research, thereby laying a solid foundation for innovation and creating a fertile environment for the development of basic science.

He called for promoting openness and sharing, jointly deepening international exchanges and cooperation, jointly implementing major science programs, improving the system of international science and technology governance, and working together to advance global scientific and technological progress.

On behalf of Tsinghua University, Li Luming welcomed the Chinese and international scientists attending the event. He noted that, with the advent of the artificial intelligence era, scientific research paradigms are undergoing profound changes, and that leading research universities should play a stronger role as the main force in advancing basic research. In recent years, Tsinghua University has continued to increase investment in fundamental disciplines. The University has attracted a group of world-class researchers and promoted the use of artificial intelligence to empower scientific research. It has also strengthened its capacity for independent talent cultivation and achieved fruitful results through its comprehensive efforts in basic research. Looking ahead, Tsinghua will work with colleagues from across different fields to strengthen its capacity for original innovation, cultivate future talent for basic research, and make greater contributions to expanding the frontiers of human knowledge and

advancing human civilization.

Shing-Tung Yau, president of the International Congress of Basic Science, director of the Yau Mathematical Sciences Center at Tsinghua University, and dean of Qiuzhen College, said that China is providing unprecedented support for basic research and has become a fertile ground for the vigorous development of basic research worldwide.

Faced with the wave of artificial intelligence sweeping across all fields, AI cannot replace the uniquely human capacity for original thinking, the flashes of inspiration that arise in an instant, or humanity's enduring pursuit of scientific truth and the beauty of nature. Major advances in basic science have always relied on the cross-fertilization of ideas across disciplines and the courage of human beings to explore the unknown.

The opening ceremony also featured the presentation of the ICBS Medal and the Frontier Science Award.

The ICBS Medal is divided into three fields—mathematics, physics and engineering. Nine scholars received the medal: Claire Voisin, Horng-Tzer Yau, Zhang Shouwu, Andrea J. Liu, Wang Yifang, Wen Xiaogang, Bao Zhenan, Zhuang Xiaowei and Zhang Feng.

A total of 111 high-level original research papers were selected for the Frontier Science Award, covering 40 subfields across mathematics, physics and information engineering. The award-winning authors come from universities, research institutions and technology companies in more than 20 countries and regions. Five Tsinghua University scholars and two papers received the award.

More than 80 recipients of prestigious international awards, including the Shaw Prize, the Wolf Prize and the Dirac Medal, as well as members of national academies from China and abroad; more than 400 internationally renowned scholars; and more than 800 researchers and young scholars from universities, academic organizations and research institutions in more than 30 countries attended the opening ceremony.

The International Congress of Basic Science (ICBS) was initiated by Shing-Tung Yau in 2023, and this year marks the fourth time the congress has been held in Beijing. The theme of this year's congress is "Advancing Basic Science for Humanity".

The congress is jointly sponsored by the Beijing Municipal Government, the Ministry of Science

and Technology, the China Association for Science and Technology, and the International Consortium of Chinese Mathematicians. It is organized by the Beijing Municipal Science and Technology Commission and Zhongguancun Science Park, the Beijing Association for Science and Technology, the Huairou District Government, the Huairou Science City Administrative Committee, and the Beijing Institute of Mathematical Sciences and Applications, with the Yau Mathematical Sciences Center at Tsinghua University as a co-organizer.

Over the two-week congress, more than 500 academic forums will be held, covering all branches

and interdisciplinary areas of basic science, as well as cutting-edge topics including reasoning with generative large models, computer vision, human-computer interaction and quantum information.

Alongside promoting high-level academic exchange, the congress continues to improve the ecosystem for nurturing young scientific talent. A range of themed activities will be introduced, including "Tsinghua Day" and the "Basic Science and Artificial Intelligence Forum". The congress will also feature an academic poster exhibition and a "Face-to-Face with Scientists" program, as well as a Women Scientists Forum and the launch of the Innovative Scholars Program.

Qiu Yong leads delegation to South Korea

On August 31, Qiu Yong, secretary of the CPC Tsinghua University Committee, led a delegation on a visit to South Korea to deepen Tsinghua University's cooperation with various sectors in South Korea in education, science and technology,

as well as people-to-people and cultural exchanges, and to contribute to advancing the China-South Korea strategic cooperative partnership. Yang Bin, vice chancellor of Tsinghua University Council, also participated in the visit.



Qiu Yong meets with Kim Min-seok

That afternoon, Qiu Yong met with Kim Min-seok, leader of the ruling Democratic Party of Korea, at the National Assembly of South Korea. They exchanged views on deepening cooperation between the two countries in education, science and technology, and talent development, as well as working together to respond to opportunities and address challenges brought by cutting-edge technologies such as artificial intelligence.

During the visit, Qiu Yong and his delegation met with Ryu Hong-lim, President of Seoul National University, to exchange views on strengthening cooperation between the two universities. Qiu Yong said that this year marks the 115th anniversary of the founding of Tsinghua University and the 10th anniversary of the University's implementation of its Global Strategy. Seoul National University is a founding member of the Asian Universities Alliance and shares a strong foundation for cooperation with Tsinghua. He expressed hope that the renewal of the agreements would open a new chapter in

cooperation between the two universities. Ryu Hong-lim said that he looked forward to deepening mutual understanding while expanding research collaboration and academic exchanges into more areas. Following the meeting, Qiu Yong and Ryu Hong-lim, representing their respective universities, renewed the Memorandum of Understanding on Cooperation and the Student Exchange Agreement.

Qiu Yong and his delegation also visited POSCO Holdings in South Korea and met with Lee Ju tae, President of POSCO Holdings, and Kim Seong Keun, President of POSTECH. Both sides expressed hope to leverage their respective strengths to achieve more cooperation outcomes in areas including new materials, new energy, and artificial intelligence.

During the visit, Qiu Yong also met with representatives of Tsinghua alumni in South Korea.

Heads of the School of Law, Office of International Affairs, Tsinghua Education Foundation, and other relevant units participated in the activities.



Tsinghua and Seoul National University renew MoU and Student Exchange Agreement

Qiu Yong leads delegation to Germany



The delegation visits RWTH Aachen University

From Sept 1 to 4, Qiu Yong, secretary of the CPC Tsinghua University Committee, led a delegation to Germany to deepen educational and technological cooperation between Tsinghua University and Germany, contributing to the development of the China-Germany comprehensive strategic partnership.

On the morning of Sept 2, Qiu Yong and his delegation visited RWTH Aachen University and held talks with Rector Ulrich Rüdiger. Qiu introduced Tsinghua's latest progress in advancing AI-enabled education and implementing its Global Strategy. He noted that the two universities share a strong foundation for cooperation, with the dual master's degree program standing as a landmark achievement in China-Germany educational collaboration. Tsinghua places great emphasis on the deep integration of technological innovation and industrial innovation, and Qiu expressed hope that both sides would strengthen practical cooperation

in more areas, seize the opportunities brought by AI development, and jointly promote the integration of educational transformation, scientific progress, and social development.

Rector Rüdiger outlined the current development of RWTH Aachen University, describing Tsinghua as one of its most important strategic partners and emphasizing that innovation is a shared characteristic of both institutions. He expressed readiness to work with Tsinghua to build more bridges for China-Germany cooperation in education, science and technology, and people-to-people exchanges.

That afternoon, Qiu attended a symposium on EU-China science and technology cooperation on climate change and energy transformation, and delivered remarks. The symposium was jointly hosted by Tsinghua University's Institute for Carbon Neutrality and Germany's Wuppertal Institute for

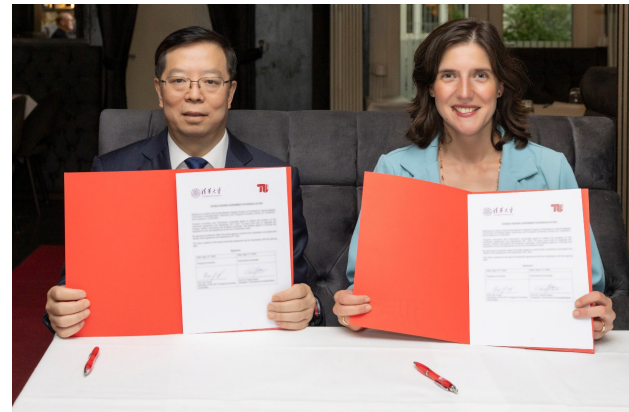


Tsinghua University and the Wuppertal Institute sign an MoU

Climate, Environment and Energy. Qiu noted that, as key players in the global green transition, China and Europe share both important responsibility and a common vision in addressing climate change and advancing clean energy. Tsinghua has long leveraged its multidisciplinary strengths to cultivate high-level innovative talent and accelerate the comprehensive green transformation of economic and social development. He expressed hope that the partnership with the Wuppertal Institute would continue to reach new heights through joint research, academic exchange, and innovation, injecting fresh momentum into global sustainable development.

Michael Dedek, administrative managing director of the Wuppertal Institute, stated that climate change and the transformation of energy and industrial systems are shared challenges for both China and Europe, and that scientific and technological cooperation is key to tackling them. He expressed confidence in the broad prospects for bilateral cooperation and noted great potential for further collaboration in the future.

Witnessed by Qiu Yong and Peter Hennicke, senior advisor and honorary president of the Wuppertal Institute, the two sides signed a Memorandum of Understanding. At the symposium, Guan Dabo, deputy dean of Tsinghua's Institute for Carbon



Tsinghua University and Technische Universität Berlin sign an extension letter.

Neutrality, and Lukas Hermwille, co-head of the Research Unit Transformative Industrial Policy at the Wuppertal Institute, shared insights on their respective contributions to the EU-China Flagship Initiative on Climate Change and Biodiversity. Experts and scholars from both countries also engaged in discussions on key issues and policy pathways related to industrial and energy transformation.

On Sept 3, Qiu visited Technische Universität Berlin (TU Berlin) and held talks with President Fatma Deniz on strengthening joint research in key disciplines and cultivating top-tier innovative talent. The two leaders jointly signed an extension letter for the Tsinghua-TU Berlin Dual Master's Degree Program in Architecture. Qiu also visited a research laboratory and exchanged views with Jürgen Weidinger, head of Landscape Architecture Design at TU Berlin.

During the visit, Qiu also met with representatives of Tsinghua alumni working in Germany.

Representatives from the Office of International Affairs, along with faculty from the Department of Mechanical Engineering, the Department of Industrial Engineering, the Institute for Carbon Neutrality, the School of Architecture and the School of Education, participated in the visit.

Li Luming visits the UK and France



Li Luming visits Imperial College London

From September 22 to 26 (local time), Tsinghua University President Li Luming visited the UK and France, where he met with leaders of several world-renowned universities and research institutions and attended the Fourth European Tsinghua Alumni Conference, further deepening people-to-people exchanges and advancing cooperation in higher education.

On the morning of September 22, Li Luming visited Imperial College London and met with Professor Peter Haynes, Provost and Deputy President of Imperial College London. Both sides exchanged views on deepening cooperation in areas including artificial intelligence, sustainable development, and clean electricity and energy.

On the afternoon of September 22, Li Luming visited the London School of Economics and Political Science (LSE). He held talks with Professor Larry Kramer, President and Vice Chancellor of LSE, on

topics including educational innovation in the era of artificial intelligence, carbon neutrality, and energy transition. He also exchanged views with Lord Nicholas Stern, Honorary Professor at Tsinghua University, Chair of the Grantham Research Institute on Climate Change and the Environment at the London School of Economics and Political Science, and Chair of the Global School of Sustainability, on leveraging artificial intelligence to advance the green and low-carbon transition. During the visit, Li Luming also met with instructors from the Confucius Institute for Business London to learn about the institute's progress and Chinese language education initiatives.

On the same day, Li Luming also visited Springer Nature and met with Dr. Magdalena Skipper, Editor in Chief of Nature, and relevant representatives. Both sides exchanged views on deepening cooperation in areas such as talent cultivation and research innovation.



Li Luming meets with representatives from the London School of Economics and Political Science

On September 23, Li Luming visited the University of Oxford and met with Professor Mark E. Smith, Pro-Vice-Chancellor for Resources and Planning of the University of Oxford. Both sides discussed topics including supporting joint research, strengthening mutual visits between young researchers, and promoting innovation and entrepreneurship education. Li Luming also visited Oxford University Innovation to gain an in-depth understanding of the university's commercialization of technological achievements and its support systems for innovation and entrepreneurship.

On September 24, Li Luming visited the University of Cambridge and met with Professor Deborah Prentice, Vice-Chancellor of the University of Cambridge, to exchange views on further deepening cooperation between the two universities. He also witnessed the signing of a memorandum of understanding between the Center for Global Competence Development at Tsinghua University and Magdalene College for

the Yinghua Foundation Programme as well as the exchange of a memorandum of understanding with Corpus Christi College. During his visit to the University of Cambridge, Li met separately with Lord Simon Woolley, Deputy Vice-Chancellor of the University of Cambridge and Principal of Homerton College, and Heather Hancock, Master of St John's College. They exchanged views on topics including fulfilling the social responsibility of universities and strengthening cooperation in talent development.

On the morning of September 25, Li Luming met with Romain Soubeyran, President of the Groupe des Écoles Centrales (GEC) and Director General of CentraleSupélec, along with representatives from GEC member institutions, including Pascal Ray, Director of Centrale Lyon, and Thomas Maurer, Director of Centrale Lille. Both sides discussed topics including expanding joint degree programs, developing joint summer programs, and strengthening research exchanges.



Li Luming visits Springer Nature



Li Luming visits the University of Oxford



Tsinghua University and the University of Cambridge sign cooperation agreements

On the afternoon of September 25, Li Luming met with representatives of member institutions of Université Paris Sciences & Lettres (PSL) for discussions. Participants included Bruno Bouchard, President of Université Paris-Dauphine, Emmanuel Tibloux, Director of the École des Arts Décoratifs (ENSAD), and Jean-Baptiste de Froment, Director of the École nationale supérieure d'architecture de Paris-Malaquais. The participants exchanged views on promoting interdisciplinary collaboration between arts and sciences, climate change and sustainable development, as well as partnerships in fields such as ancient texts, mathematics, and artificial intelligence.

On the same day, Li Luming met with Jeremy Perelman, Vice President for International Affairs at Sciences Po. Both sides exchanged views on topics including climate education, joint research, artistic exchanges, and international short-term programs. He also met with Emmanuel Ullmo, Director of the Institut des Hautes Études Scientifiques (IHES), and the two sides held discussions on issues such as student cultivation and joint postdoctoral programs.

On September 26, Li Luming attended the Fourth European Tsinghua Alumni Conference and delivered remarks.

Li expressed his appreciation to alumni for their longstanding care and support for their alma mater. He spoke highly of the important role played by the European Tsinghua Alumni Conference and alumni organizations in facilitating overseas exchange and study opportunities for students and in building bridges for China-Europe cooperation.

Li shared the University's latest developments in leveraging artificial intelligence to enhance teaching and research, as well as in advancing its global strategy.

He encouraged alumni, as important witnesses to and contributors to Tsinghua's reputation and impact in society, to remain committed to the mission and responsibilities of Tsinghua graduates, uphold the University motto of "Self-discipline and Social Commitment," and continue to pursue excellence and make contributions in their respective fields and professions.



Li Luming meets with representatives from Groupe des Écoles Centrales



Li Luming visits Sciences Po

He also called on alumni to continue supporting the development of their alma mater and to further serve as a bridge connecting Tsinghua with the wider world. Through concrete actions, he encouraged them to support the development of young students, foster people-to-people exchanges and cooperation between China and Europe, and make greater contributions to building a community with a shared future for humanity.

On September 26, Li Luming met with Laurence Tubiana, Honorary Professor at Tsinghua University, CEO of the European Climate Foundation, and Dean of the Paris Climate School. Both sides exchanged views on topics including the development of dual degree programs and AI curriculum.

During the visit, Li Luming also visited the Chinese Embassy in the United Kingdom and the Chinese Embassy in France, exchanging views with Ambassador Zheng Zeguang and Ambassador Deng Li respectively on deepening China-Europe cooperation in higher education. He visited alumni representatives working in the United Kingdom and France, and attended the Fourth European Tsinghua Alumni Convention, where he delivered a speech. In addition, he met with Cai Mingpo, Founder, Chairman and CEO of Cathay Capital, as well as Marie-Claire Daveu, Chief Sustainability Officer and Head of International Institutional Affairs at Kering, and Cai Jinqing, President of Kering Greater China, among others, to promote exchanges and cooperation across multiple fields.

Leaders from the Department of Automation, the Department of Electrical Engineering, the



The Fourth European Tsinghua Alumni Conference is held in Paris.

Department of Earth System Science, the Academy of Arts & Design, the Mathematical Sciences Center, the Institute for Climate Change and Sustainable Development, the Institute for Carbon Neutrality, the Research & Development Affairs Office, the Office of International Affairs, the Center for Global Competence Development, the Tsinghua University Education Foundation, and the Tsinghua Alumni Association participated in the relevant activities.



Li Luming visits meets with Laurence Tubiana

Bringing classical optics into the quantum world – Joint team from Tsinghua, USTC, and BAQIS realizes a new framework for Fock-space optics

Recently, the research group of Luyan Sun at the Institute for Interdisciplinary Information Sciences, Tsinghua University, in collaboration with the groups of Chang-Ling Zou and Ming Li at the University of Science and Technology of China and Haifeng Yu at the Beijing Academy of Quantum Information Sciences, published a research paper titled *"Principles of optics in Fock-space for the scalable manipulation of large quantum states"* in *Nature Physics*. The team proposes a novel quantum state manipulation framework named "Fock-space optics," which translates fundamental principles of classical optics, including propagation, refraction, lensing, interference, and imaging, into high-dimensional quantum state spaces, and successfully validates the framework experimentally using superconducting quantum devices. This work establishes a deep connection between classical optics and quantum state evolution, offering a new design paradigm for the scalable control of large-scale quantum systems with thousands of photons and advanced bosonic information processing.

From Solving the Schrödinger Equation to Designing Optical Circuits

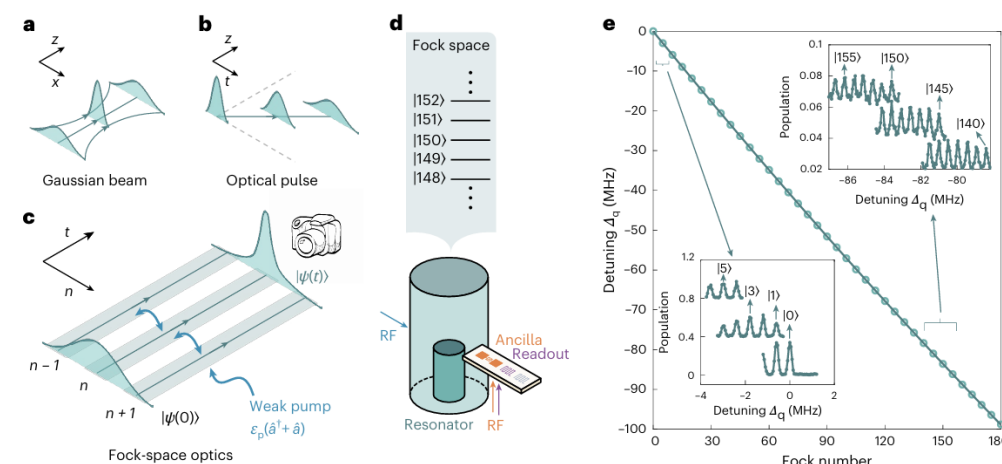


Fig. 1: Concept and experimental implementation of Fock-space optics

For over three centuries, classical optics has relied on well-established principles such as refraction, lensing, and interference to design powerful optical systems without the need to solve complex Maxwell's equations, greatly advancing modern optical technologies. In contrast, the manipulation of high-dimensional quantum states in the infinite-dimensional Fock-space of bosonic cavities, a crucial resource for quantum computing, communication, simulation, and metrology, has long lacked an intuitive design language analogous to classical optics. As the photon number increases, the cost of conventional numerical optimization grows steeply, severely limiting the deterministic control of large-photon-number quantum states.

The research team sets out to address a fundamental question: can we establish a simple, intuitive, and scalable design method for high-dimensional quantum states, analogous to designing optical circuits in classical optics? They discover that under weak pumping at large photon numbers, the coupling between adjacent Fock states becomes approximately uniform, and the quantum-state evolution equation closely resembles the classical paraxial wave equation, allowing the quantum state to be viewed as a beam propagating in a "synthetic dimension" of photon number.

Building on this insight, the team proposes the "Fock-space optics" control framework, which maps the concept of classical optical elements onto quantum-state manipulation: different control pulses correspond to different "optical elements," and the quantum state propagates, refracts, focuses, and interferes in Fock-space just like a beam of light. They construct an experimental platform based on a superconducting three-dimensional microwave cavity and systematically demonstrate a series of fundamental optical phenomena in Fock-space within a range of up to 180 photons (Fig. 1).

Building Optical Systems in the Quantum World

The research team employs a coherent state as an analog of a parallel light beam. By accumulating a linear phase under detuning or a quadratic phase under Kerr nonlinearity, they respectively realize a prism and a lens in Fock-space, demonstrating refraction, focusing, and divergence of quantum states (Fig. 2). By combining the Fock-space lens with post-selection, they achieve efficient preparation of large-photon-number Fock states, setting new world records in both photon number and preparation

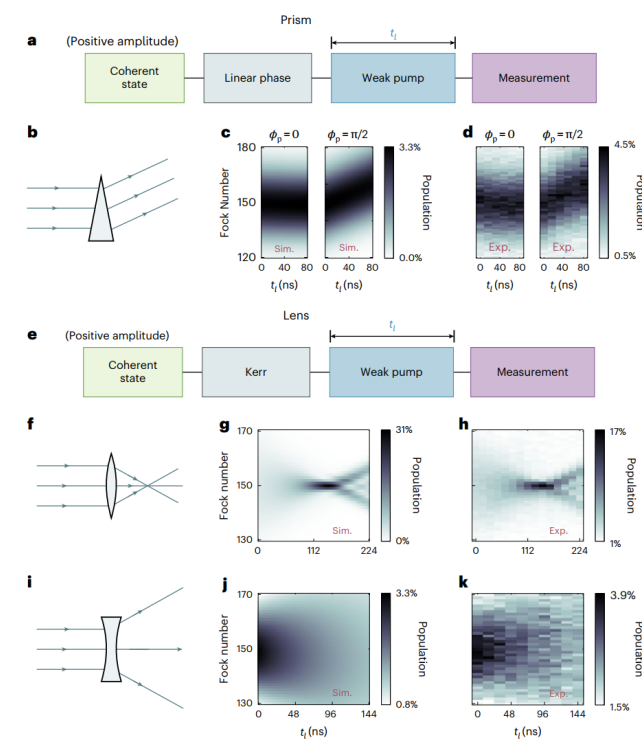


Fig. 2: Prism and lens elements in Fock-space

success rate. Notably, the success rate theoretically does not decrease significantly with increasing photon number.

Building on this foundation, the team further demonstrates Fock-space versions of several classical optical experiments. In the quantum "Newton's prism experiment" (Fig. 3), the combination of a prism and a lens in Fock-space causes identical initial states to focus onto different Fock states depending on the pump frequency. In the Fock-space "double-slits interference experiment" (Fig. 4), they use a "phase-space slingshot" method to prepare double Gaussian-distributed quantum states that act as virtual double slits. By varying their relative phase or separation, the resulting fringe shifts and spacings are found to be consistent with classical double-slit interference. Finally, by introducing weak pump before and after the lens to simulate object and image distances, they show that when the imaging condition is satisfied, the quantum state can be flipped to form an inverted, magnified real image, with the magnification approximately equal to the image-to-object distance ratio (Fig. 5).

Opening New Pathway for Large-Photon-Number Quantum State Manipulation

These experimental results demonstrate that the laws of classical optics are not only applicable to light propagation in real space, but can also serve

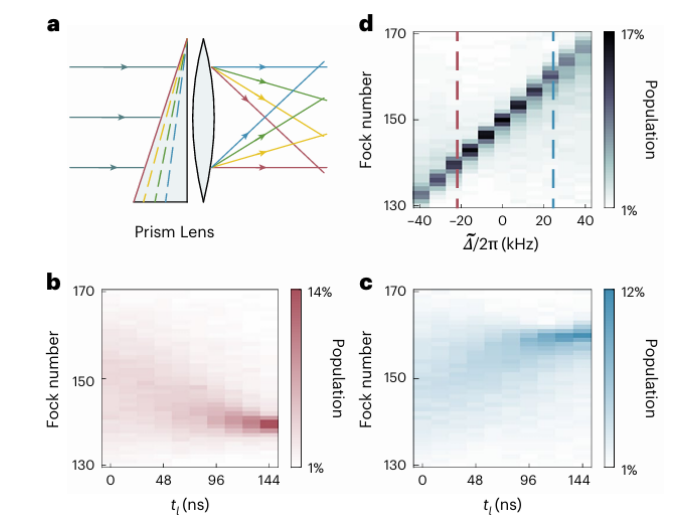


Fig. 3: Newton's prism experiment in Fock-space

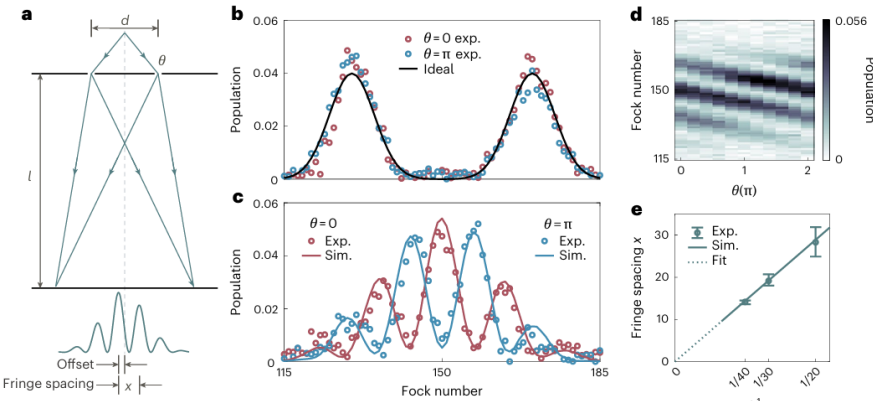


Fig. 4: Young's double-slit interference in Fock-space

as an intuitive physical language for the design and manipulation of high-dimensional quantum states.

The significance of this work lies not merely in achieving experimental demonstrations with larger photon numbers, but more importantly in establishing a new paradigm for quantum control. The Fock-space optics framework allows researchers to combine basic elements much like building an optical system, enabling intuitive design of quantum states without the need to solve the full Schrödinger equation each time. This approach holds promise for significantly reducing the complexity of large-scale quantum control, particularly for manipulations at the level of a thousand or more photons, and offers new technological pathways for high-dimensional bosonic quantum computing, quantum error correction, quantum simulation, and quantum metrology.

The research team points out that Fock-space optics is still in its early stages. In the future, more optical elements from classical optics, such as mirrors, gratings, and metasurfaces, are expected to be developed into their corresponding Fock-space counterparts, building an even richer quantum "optical system." At the same time, this framework can be extended to various other bosonic quantum platforms, including mechanical oscillators, cold atoms, and trapped ions, establishing a unified and intuitive language for controlling high-dimensional quantum systems.

Postdoctoral researcher Yifang Xu, Ph.D. student Yilong Zhou, and postdoctoral researcher Ziyue Hua from the Institute for Interdisciplinary Information Sciences, Tsinghua University, are the co-first authors of the paper. Professor Luyan Sun from the Institute for Interdisciplinary Information Sciences, Tsinghua University, and Professor Chang-Ling Zou and Associate Professor Ming Li from the Laboratory of Quantum Information, University of Science and

Technology of China, are the corresponding authors. Other contributors include: Ph.D. students Lida Sun, Hongwei Huang, and Lintao Xiao, Assistant Researcher Weiting Wang, and graduate alumnus Jie Zhou from the Institute for Interdisciplinary Information Sciences, Tsinghua University; Associate Researcher Weizhou Cai from the University of Science and Technology of China; and Researcher Haifeng Yu and Associate Researcher Guangming Xue from the Beijing Academy of Quantum Information Sciences.

This work is supported by the Quantum Science and Technology-National Science and Technology Major Project and the National Natural Science Foundation of China.

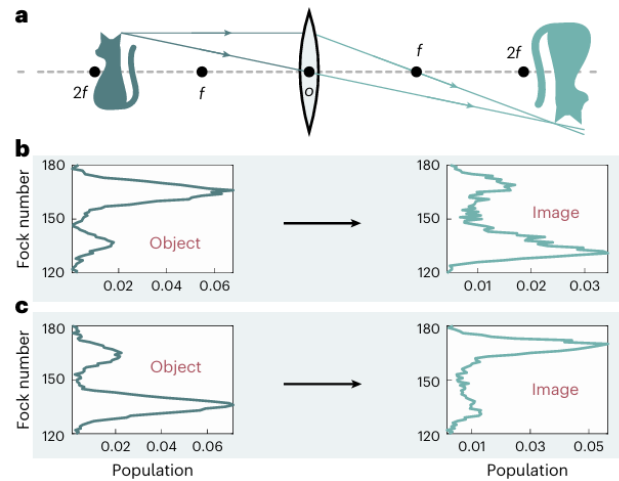


Fig. 5: Imaging in Fock-space

Tsinghua scholars deeply engaged in the development of The Economic and Health Case for Climate and Clean Air Action

The United Nations Environment Programme (UNEP) and the Climate and Clean Air Coalition (CCAC) jointly released a report titled *Hidden Assets: The Economic and Health Case for Climate and Clean Air Action* on September 7, the International Day of Clean Air for Blue Skies. The report is the first comprehensive global economic assessment of integrated climate and clean-air action. At the launch event, Professor Shuxiao Wang from the School of Environment, Tsinghua University, and Professor Simon Dietz from the London School of Economics and Political Science provided an in-depth analysis of the report. The report recommends 25 specific interventions for tackling climate change and air pollution together. It finds that every 1 U.S. dollar allocated toward climate and clean-air action can generate approximately 15 dollars in economic returns, with the benefits of coordinated action significantly exceeding those of addressing climate change and air pollution separately. The findings

demonstrate that integrated action on air pollution and climate change is not only one of the fastest pathways to maximizing environmental and health benefits, but also one of the most compelling economic opportunities of this century.

The report provides a scientific basis for countries to better integrate climate action and air-quality improvement under the framework of the Paris Agreement, strengthen relevant policies, and advance global climate action. It also highlights the substantial economic and health returns that can be unlocked through coordinated action.

Professor Shuxiao Wang served as co-chair and coordinating lead author of the report. Professor Kebin He, dean of Tsinghua University's Institute for Carbon Neutrality and Member of the Chinese Academy of Engineering, served as a member of the report's High-Level Panel.

Tsinghua researchers develop an in situ TGF-β1 capture strategy to promote tendon regeneration

Tendinopathy is a common musculoskeletal disorder that can cause persistent pain, impaired mobility and athletic performance, and an increased risk of spontaneous tendon rupture. Transforming growth factor-β1 (TGF-β1) is a key driver of tendon fibrosis and collagen matrix disorganization. However, selectively controlling excessive TGF-β1 within diseased tendons while minimizing interference with

its physiological functions remains a major challenge in the treatment of tendinopathy.

A research team led by Professor Jia-Kuo Yu at the Orthopedic and Sports Medicine Center of Beijing Tsinghua Changgung Hospital, Tsinghua University, has now developed a new strategy to remodel the pathological tendon microenvironment by capturing

excess TGF- β 1 directly at the site of injury using a fully natural self-assembling peptide (Fig. 1).

The team designed a modular self-assembling peptide, termed “AsPep-FTSQ”, composed entirely of natural amino acids. Following local injection into diseased tendon tissue, AsPep-FTSQ spontaneously assembles into an interconnected nanofibrous network in situ. This network continuously sequesters excess free TGF- β 1 within the local microenvironment, thereby suppressing aberrant pro-fibrotic signaling, limiting pathological tendon cell state transitions, and promoting the realignment of collagen fibers along the principal load-bearing axis of the tendon. The regenerative effects of this strategy were demonstrated in both rat and beagle models of tendinopathy, in which AsPep-FTSQ improved tendon structural organization and functional repair.

The study established an integrated research framework spanning “single-cell mechanistic analysis, modular molecular design, molecular binding validation, functional evaluation in small-animal

models, and translational validation in a large-animal model” (Fig. 2). Unlike conventional systemic approaches that broadly inhibit TGF- β 1 signaling, AsPep-FTSQ forms a high-density nanofibrous network specifically within the pathological site, enabling sustained local sequestration of excess free TGF- β 1. This localized approach is designed to suppress chronic and aberrant pro-fibrotic signaling while minimizing disruption of the physiological functions of TGF- β 1 elsewhere in the body.

Importantly, the platform is highly modular and programmable. By replacing its target-recognition sequence, the same molecular architecture could potentially be adapted to capture other disease-associated cytokines. This design concept may therefore have applications beyond tendinopathy, including fibrotic disorders affecting other soft tissues such as the heart, lung, and liver.

By integrating mechanistic investigation of sports-related tendon injury with biomaterial engineering, molecular self-assembly, and cross-species preclinical evaluation, the study provides a new conceptual

framework for treating tendinopathy. Rather than focusing primarily on symptom relief, the approach seeks to “precisely remodel the pathological tissue microenvironment”, offering both a mechanistic basis and a potentially versatile material platform for regenerative therapy.

The study, entitled “A modular self-assembling peptide platform targeting TGF- β 1 for tendon regeneration,” was published in *Nature Communications*. Chao Li of the Department of Medicine at Peking University and Zehao Chen of Tongren Hospital Affiliated to Shanghai Jiaotong University School of Medicine are the co-first

authors of this article. Jiakuo Yu and Huawei Liu, the deputy chief physician at Beijing Tsinghua Changgung Hospital, as well as Guoqing Cui, a doctoral supervisor at the Peking University Department of Medicine, are the co-corresponding authors.

The research was supported by the “National Natural Science Foundation of China”, the “National Key Research and Development Program of China”, the “Beijing Municipal Natural Science Foundation”, the “Capital Clinical Characteristic Diagnosis and Treatment Technology Research and Translational Application Project”, and other research programs.

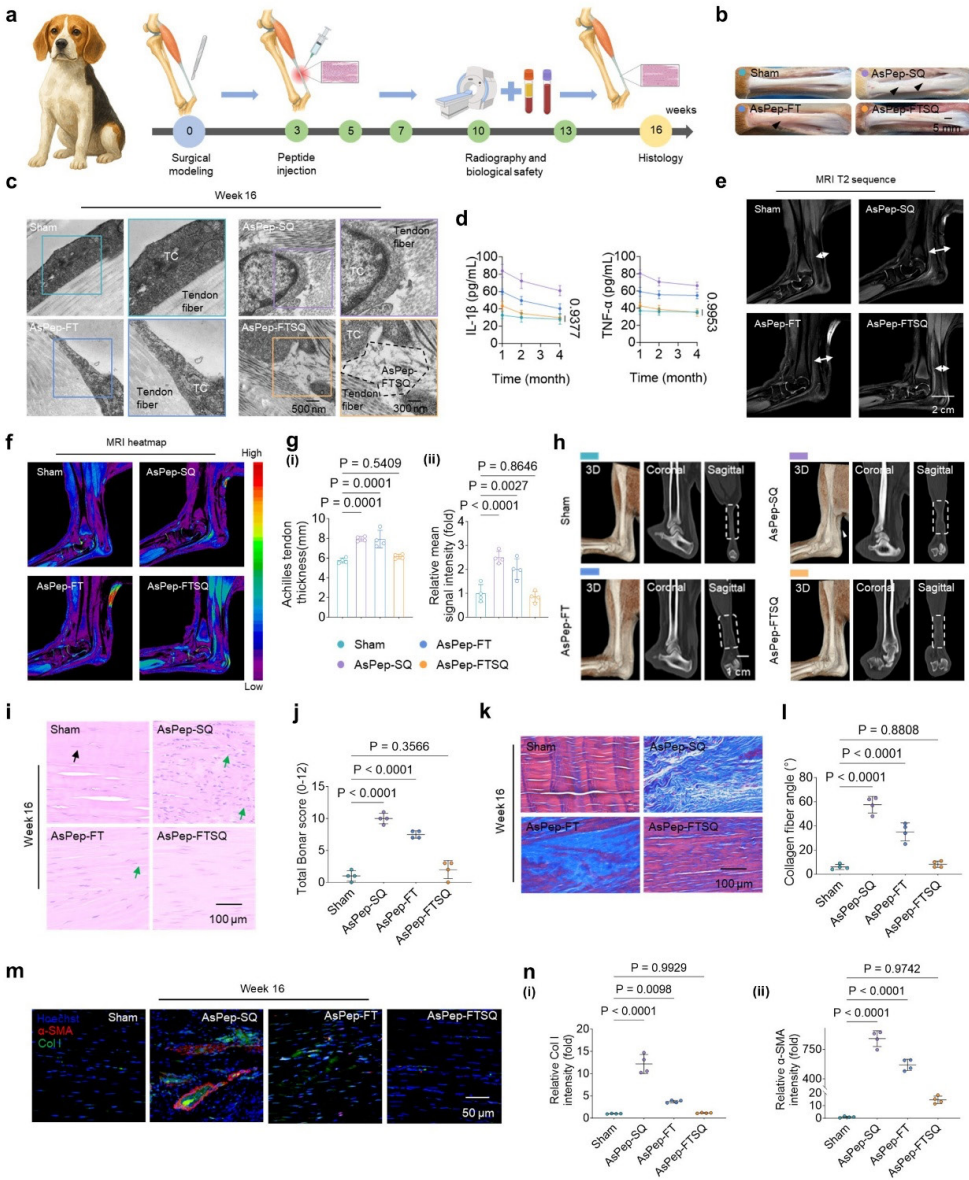
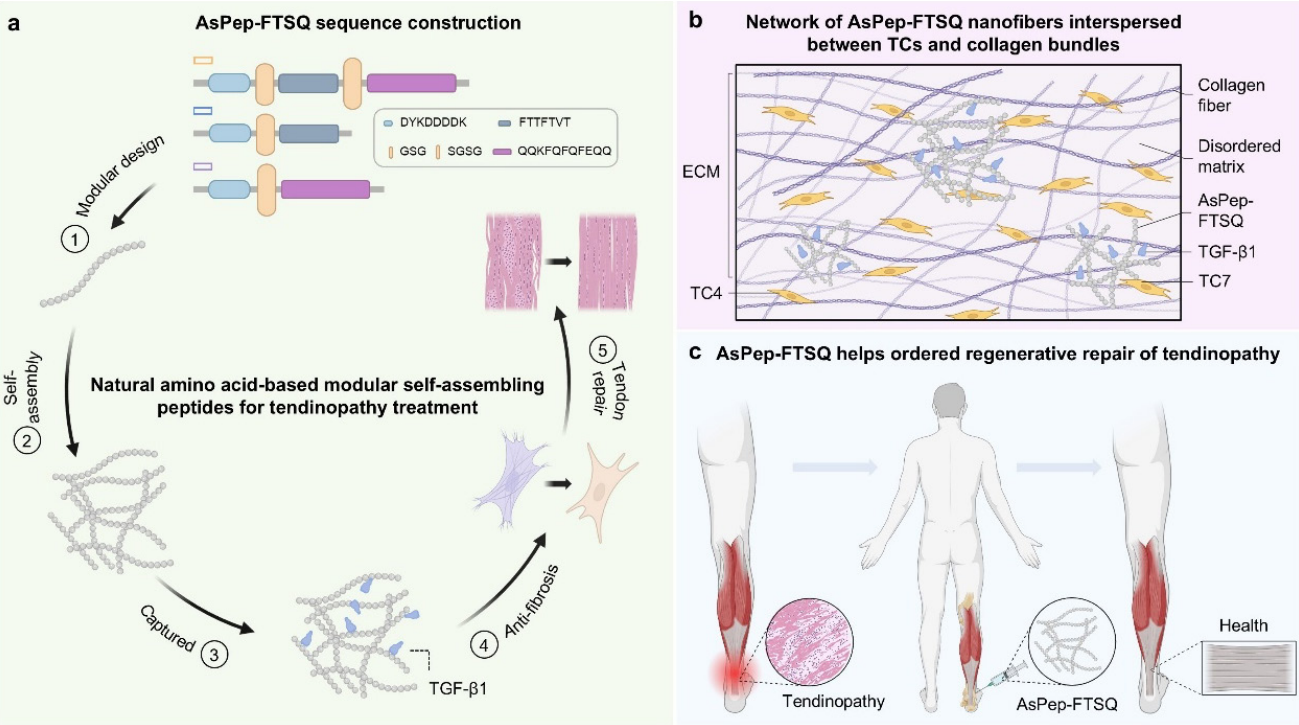


Fig. 2 | AsPep-FTSQ forms an in situ nanofibrous network within beagle tendon tissue, demonstrating cross-species tendon repair and translational potential.

Tsinghua's Youth2Real team excels at ICRA 2026 robotics competitions

Tsinghua University's Youth2Real team, led by Professor Sun Fuchun of the Department of Computer Science and Technology, delivered outstanding performances at the 2026 IEEE International Conference on Robotics and Automation (ICRA 2026), held this June in Vienna, Austria. The team secured first-place victories in two challenging robotic grasping and manipulation competition tracks and took home an overall bronze medal in the inaugural Real-World Embodied AI Learning Challenge.

In the "Human-to-Robot Handovers" track, volunteers handed containers to the robot from a tabletop. The robot was required to dynamically recognize object poses and physical properties, execute stable handovers, and precisely place it at a designated location. Judging criteria included task success rate, completion time, and placement accuracy under varying difficulty levels. The Youth2Real team excelled through coordinated optimization of dynamic perception, grasp point selection, trajectory planning, and safety control modules, ultimately claiming the championship.

In the "Picking in Clutter" track, robots faced highly complex real-world conditions including stacked objects, heavy occlusions, and diverse shapes. Competitors needed to identify targets from limited

viewpoints, plan collision-free trajectories, and manage disturbances and recovery from failures during continuous operations. By integrating robust modules for 3D perception, grasp evaluation, sorting sequence planning, and execution control, the Youth2Real team delivered a stable and reliable system to claim victory in this category.

The team also competed in the inaugural Real-World Embodied AI Learning Challenge, which required robots to transfer capabilities from simulation to physical systems across tasks such as part righting, object grasping, and package scanning. Confronted with real-world issues such as sensor noise and actuation errors, the Youth2Real team distinguished themselves through robust system design and efficient strategy transfer, ultimately earning a bronze medal.

The IEEE International Conference on Robotics and Automation (ICRA) and the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) are recognized as the two premier global events in the robotics and automation fields, with the Robotic Grasping and Manipulation Competition serving as a key highlight. With this year's achievements, Professor Sun Fuchun's teams have built an impressive competition record across eight participations: seven championships, one runner-up finish, and three third-place awards.



Team Youth2Real at the competition venue

Tsinghua research team honored with 2025 IEEE TPDS Best Paper Award



The IEEE Computer Society Publications Board recently announced the winner of the 2025 Best Paper Award for IEEE Transactions on Parallel and Distributed Systems (TPDS). The paper "Leveraging Graph Analysis to Pinpoint Root Causes of Scalability Issues for Parallel Applications," published by the Institute of High Performance Computing in Tsinghua University's Department of Computer Science and Technology, received the award. The first author of this paper is Yuyang Jin, an assistant researcher in the department, and the corresponding author is Professor Jidong Zhai.

On large-scale supercomputers, the scalability of parallel applications is often constrained by load imbalance, resource contention, inter-process communication, and other factors. Existing performance-analysis approaches each have their advantages and disadvantages: sampling-based analysis incurs little overhead but cannot identify root causes, while tracing-based analysis provides comprehensive information but carries prohibitively high overhead. To get the best of both worlds, the

paper proposes a lightweight, graph-based method for identifying scalability bottlenecks in parallel programs. By combining the advantages of static analysis and lightweight runtime sampling, the method constructs a Parallel Performance Graph and uses a backtracking algorithm to automatically locate the root causes of scalability issues. ScalAna, a performance-analysis tool built upon this technique, improves the system's ability to pinpoint scalability bottlenecks on supercomputers. This technique has already been applied to detecting performance bottlenecks in large-scale parallel applications at Chinese national supercomputing centers.

IEEE Transactions on Parallel and Distributed Systems (TPDS) is a top journal in the field of high-performance computing. It covers parallel and distributed computing algorithms, computing applications, performance analysis, and related fields, and has broad international academic influence. Of the 193 papers published in IEEE TPDS in 2025, only one received the journal's Best Paper Award, marking a competitive award ratio of merely 0.52%.

Sir John Pendry appointed Honorary Professor, delivers Tsinghua Global Vision Lecture

Sir John Pendry, fellow of the Royal Society, member of the U.S. National Academy of Sciences and the American Academy of Arts and Sciences, and professor at Imperial College London, was appointed Honorary Professor of Tsinghua University on August 5, 2026. On this occasion, he delivered the 274th Tsinghua Global Vision Lecture.

The appointment ceremony and lecture were attended by Wang Hongwei, vice president of Tsinghua University, who presented the honorary professorship certificate to Sir Pendry. The ceremony was presided over by Professor Lin Yuanhua, dean of the School of Materials Science and Engineering

at Tsinghua University and a member of the Chinese Academy of Sciences. Also in attendance were Academicians Nan Cewen, Zhou Ji, and Sun Hongbo, along with leaders from the School of Materials Science and Engineering and the Office of International Affairs, as well as over 150 faculty members and students.

In his remarks, Vice President Wang Hongwei announced the appointment and expressed his hope that Sir Pendry would share his academic insights with the Tsinghua community and deepen collaborative research and talent development in cutting-edge fields such as optical metamaterials



Wang Hongwei confers the appointment certificate of Honorary Professor upon Sir John Pendry

and space-time crystals. Professor Peng Huaxin, Qiushi Chair Professor at the School of Materials Science and Engineering of Zhejiang University and secretary-general of the Chinese Society for Metamaterials, extended his congratulations on behalf of sister institutions and offered his perspective on the internationalization of China's metamaterials research. Professor Zhou Ji, member of the Chinese Academy of Engineering, introduced Sir Pendry's distinguished academic achievements.

Sir Pendry is a world-leading scientist in condensed matter physics. As the founding father of metamaterials and the originator of transformation optics, his work has had a profound impact on the development of electromagnetics, optics, and materials science. He has received numerous prestigious international awards, including the Kavli Prize in Nanoscience, the Kyoto Prize, and the Copley Medal.

In his lecture titled "Metamaterials: From Negative Refraction and Cloaking to Space-Time Crystals," Sir Pendry reviewed the origins and evolution of metamaterials, tracing the journey from theoretical predictions to experimental verification of negative refraction, and the subsequent development of cloaking technologies and super lenses. He then focused on the emerging frontier of space-time crystals. By engineering materials along both temporal and spatial dimensions, space-time crystals break time-reversal symmetry, opening up new avenues for novel device design. Theoretical physicists

have shown great interest in this concept, as it may offer a pathway to realizing Hawking radiation in laboratory experiments. Looking ahead, Sir Pendry highlighted the unique potential of metamaterials in a wide range of applications that require precise control of electromagnetic waves, including 5G/6G technologies, satellite communications, transformation optics cloaks, bio-imaging and sensing, and high-performance NMR devices.

Following the lecture, faculty and students engaged in lively discussions with Sir Pendry on topics including superlens fabrication and applications, the principles behind cloaking technology, and how positive and negative refraction are understood from the perspective of transformation optics. Vice President Wang Hongwei presented Sir Pendry with a commemorative plaque from the Global Vision Lecture series, and Professor Yang Zhigang, party secretary of the School of Materials Science and Engineering, presented him with a souvenir. The event concluded with a group photo of distinguished guests.

This event was co-hosted by the Office of International Affairs and the School of Materials Science and Engineering. Since its launch in 2007, the Tsinghua Global Vision Lecture series has successfully held 274 lectures, establishing itself as an important platform for broadening the international horizons of faculty and students and deepening high-level academic collaboration.



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