MONTHLY REPORT

2026.04 University of Science and Technology of China

第16期



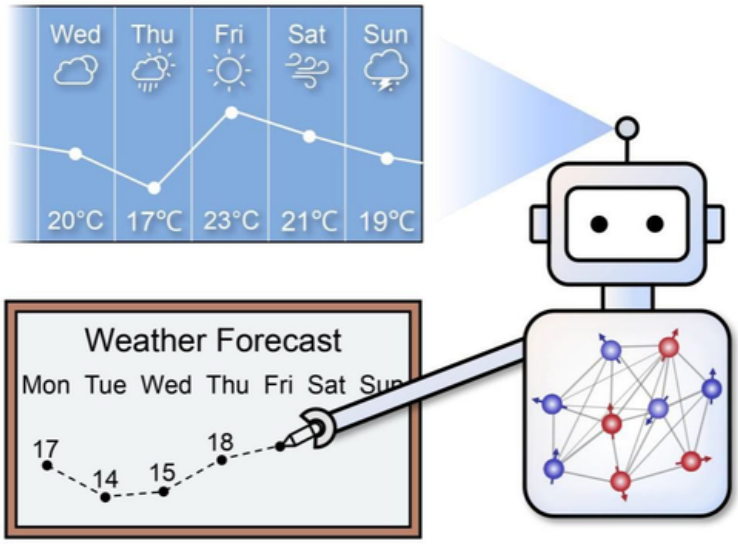
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RESEARCH

Apr. 03

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Small Quantum System Outperforms Large Classical Networks in Real-World Forecasting



Can a handful of atoms outperform a much larger digital neural network on a real-world task? The answer may be yes. In a study published in ***Physical Review Letters***, a team led by Prof. PENG Xinhua and Assoc. Prof. LI Zhaokai from the University of Science and Technology of China of the Chinese Academy of Sciences demonstrated that a quantum processor comprising just nine interacting spins outperformed classical networks with thousands of nodes in realistic weather forecasting tasks.

Using nuclear magnetic resonance techniques, the researchers built a quantum reservoir computer based on nine interacting atomic spins.

The nine-spin quantum reservoir achieved higher accuracy than classical reservoir networks with thousands of nodes in multi-day forecasts.

The findings provide experimental evidence that a quantum machine-learning system may outperform much larger classical counterparts on realistic tasks. This work suggests that harnessing the native dynamics of current quantum devices rather than waiting for fully fault-tolerant quantum computers may promote useful applications.

RESEARCH

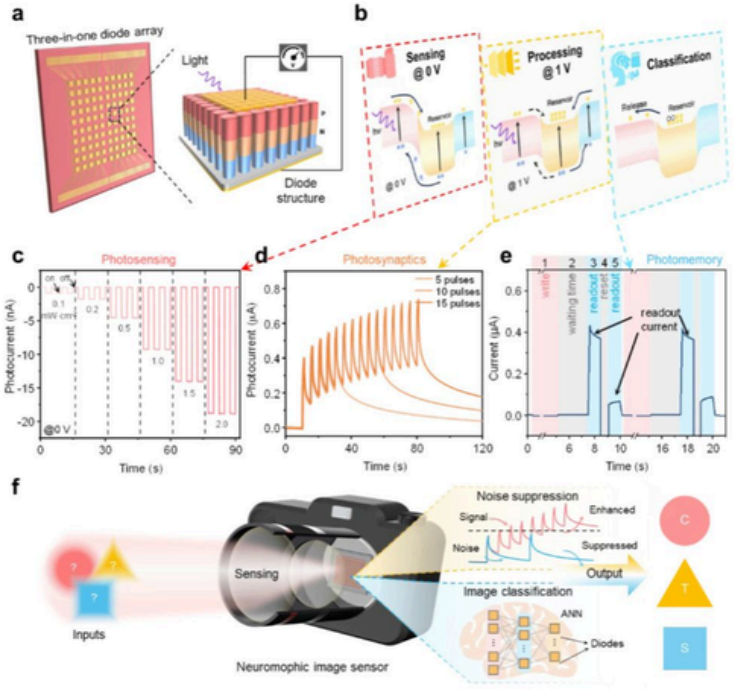
Apr. 07

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Researchers Develop Three-in-One Diode with Photosensing-Memory-Processing Functionality for Neuromorphic Imaging

PN junction diodes are the underpinning of modern optoelectronic systems. Diodes, constrained by physical mechanisms, typically perform only a single task. To process complex visual signals, optical imaging systems often rely on the introduction of a third electrode or integrating diodes with external logic circuits. These architectures significantly increase hardware complexity and bring von Neumann issues—the physical separation of sensing, memory, and computing—leading to larger areas and increased power consumption. There is a lack of a compact, single-device solution.

In a study published in ***Nature Electronics***, a research team led by Prof. SUN Haiding from the University of Science and Technology of China of the Chinese Academy of Sciences, along with the collaborators from domestic and foreign universities, developed a multifunctional photodiode architecture, which provides a hardware solution for low-power neuromorphic visual cameras with integrated sensing, memory, and computing, breaking through the traditional semiconductor physical limit of unidirectional conductivity.



NEWS

Apr. 03

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Chinese Swordsmanship

At the Chinese Corner, USTC international students stepped into the world of traditional Chinese martial arts, exploring the elegance, strength, and spirit of the sword. Through guided practice, they experienced both the discipline and the artistry behind this ancient form of combat — all while staying active and energized.





Apr. 04

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Traditional Chinese Painting

Guided by the instructor, international students learned how to paint camellias on rice paper using traditional Chinese brush techniques. It was inspiring to see them blend classical artistic methods with their own creativity and personal interpretation of beauty.





NEWS

Apr. 07

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Ride into Spring

As blossoms quietly unfold and tender green spreads across the city, USTC international students were invited to join the “Belt and Road International Friendship Cycling Event”, riding alongside professional cyclists through the picturesque landscapes of Chaohu.

With every turn of the wheel comes both effort and joy—the fragrance of wildflowers in the air, a gentle breeze on your face, and breathtaking views at every glance. Amid the rhythm of busy studies, may you pause for a while to feel the warmth of the season, to gather small fragments of beauty, and to let spring, in all its softness, find its way into your heart.











NEWS

Apr. 15

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Spring at USTC

USTC enters a season where colours speak louder than words.
Spring arrives softly, brushing the campus with hues of renewal.
From crimson tulips to tender pink blossoms,
every frame becomes a quiet whisper of life.
Light drifts across petals,
turning ordinary paths into lines of poetry.
Spring at USTC is not only seen—it is felt.
A gentle celebration of life in full bloom,
where nature writes its story in silence.









Photos by USTC international student Raoha Bin Mejba (Bangladesh)

NEWS

Apr. 23

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Chaohu Cycling Open

On April 19, the Belt and Road Countries' Diplomatic Envoys Cycling Series (Hefei) & Tour of Chaohu Cycling Open kicked off in spectacular fashion in Hefei. International students from USTC joined the race with energy and determination, bringing passion and competitive spirit to the course.

More than just a race, the event served as a vibrant platform for cultural exchange. Along the scenic shores of Chaohu Lake, USTC’ s international students embodied youthful passion and resilience, contributing to the spirit of friendship and strengthening connection across Belt and Road countries.









NEWS

Apr. 28 READ MORE

the May 4th Youth Run

On April 25, 2026, international students joined one of USTC’s most anticipated annual events—the May 4th Youth Run—held across both West Campus and High-Tech Campus!

Running alongside nearly 4,500 faculty, staff, and fellow students, they experienced not only the excitement of the race but also the spirit behind this special tradition. The event commemorates the anniversary of the May Fourth Movement while celebrating the values of youth, energy, and responsibility.

For many international students, it was more than just a run—it was a chance to connect with the community, embrace a meaningful cultural moment, and challenge themselves in a fun and supportive atmosphere.









ALUMNI

Dr. Ataullah Kiani



BL17204009

School of Management

Pakistan

Email:
kataulla@kean.edu

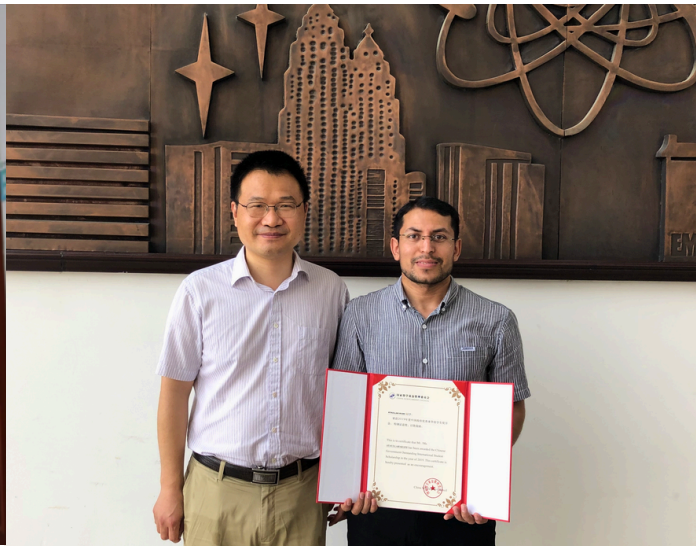
Dr. Ataullah Kiani currently holds the position of **Assistant Professor** at the College of Business and Public Management, Wenzhou-Kean University.Prior to assuming his current role, he successfully completed a post doctorate at the School of Economics and Management at **Tsinghua University** in Beijing, China. Dr. Kiani further enriched his academic experience by teaching at the Chair of Strategic Management and Organization, Faculty of Law, Business, and Economics, Universität Bayreuth, **Germany**. During his doctoral studies at USTC, Dr. Kiani's achievements were recognized with **The Chinese Government Outstanding International Student Award**, granted by the Ministry of Education in Beijing, China.

Dr. Kiani serves as an **Associate Editor** of Technology Analysis & Strategic Management. His commitment to advancing scholarly discourse extends to his regular contributions as an ad-hoc reviewer for various global journals. His areas of expertise encompass innovation, entrepreneurship, strategic management, and ethics, reflecting a dedication to the diverse facets of academic research and publication.

ALUMNI

My academic journey was profoundly shaped by my Ph.D. experience at the University of Science and Technology of China (USTC). During that time, I built a rigorous foundation in scientific inquiry and analytical thinking. The program emphasized both depth in methodology and breadth in understanding complex systems, which shaped my approach to research as both systematic and interdisciplinary. Beyond technical skills, USTC instilled in me a culture of curiosity and resilience. These qualities guided my subsequent postdoctoral research at Tsinghua University and laid the groundwork for an academic career that seeks to bridge theory and practical impact.



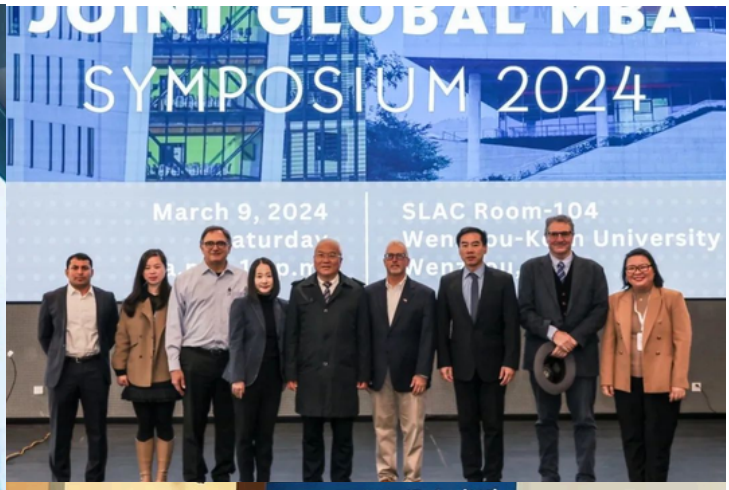


During my doctoral studies, leadership and recognition also played an important role in my development. Receiving the Chinese Government Outstanding International Student Award was both an honor and a motivation to strive for excellence in research and academic service. At the same time, serving as Chairperson of the Foreign Students Association allowed me to develop cross-cultural leadership skills, organize initiatives, and advocate for peers. These experiences enhanced my confidence, strengthened my communication abilities, and taught me the importance of balancing individual achievement with community engagement—skills that continue to support my professional growth.

ALUMNI

In my current professional life, I balance multiple roles as an Assistant Professor, Research Scientist, and Associate Editor. This requires careful prioritization and integration. Teaching and mentoring sharpen my ability to communicate complex ideas clearly, which in turn enhances my research and editorial work. Likewise, engaging in international collaborations in Germany and reviewing for top journals exposes me to cutting-edge methodologies and global perspectives, which I bring back into the classroom. In essence, each role reinforces the others, creating a continuous cycle of learning, application, and dissemination.







Across my research areas—entrepreneurship, strategic management, digital innovation, and ethics—my work is driven by a central question: how can organizations navigate technological and societal change responsibly to achieve sustainable growth? This theme connects my efforts to understand how firms innovate, make strategic decisions, and consider ethical and societal implications in a rapidly evolving global environment.

ALUMNI

As an editor, my process emphasizes clarity, rigor, and relevance. I look for manuscripts that address important questions, demonstrate methodological soundness, and contribute to both theory and practice. For early-career researchers, particularly those from USTC, my advice is to focus on developing a strong conceptual foundation, seek constructive feedback early, and target journals whose audience aligns closely with your research. Persistence, curiosity, and a willingness to revise are key to success in high-impact publications.





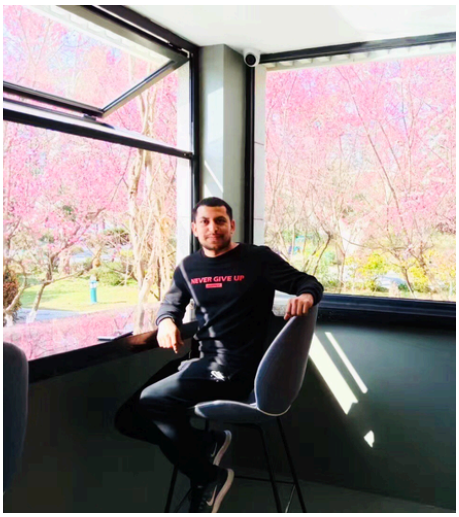


In teaching, I actively integrate my international research experience into the classroom. I draw directly from international collaborations, case studies, and cross-cultural experiences to enrich discussions. For example, in the Global MBA course on Cross-Cultural Management, I bring in real-world examples from China, Europe, and beyond, helping students understand the challenges and strategies of operating in diverse environments. This approach prepares students to think critically, adapt flexibly, and make informed decisions in a global business context.

ALUMNI

Studying and working internationally has also shaped my perspective on innovation and entrepreneurship. I have come to see that innovation thrives when policy support, talent, and resources align with entrepreneurial drive. In this regard, China’ s distinctive strengths lie in its dynamic market, strong institutional support for innovation, and rapid technology adoption. Combined with a culture of experimentation, these factors create fertile ground for entrepreneurship and offer valuable opportunities to study how innovation ecosystems evolve in practice.











Looking back, my journey from USTC to the broader international academic community has been one of continuous learning and integration. The foundation I received, combined with global experiences, continues to shape my work as I seek to contribute to both academic knowledge and real-world impact.

SHARE YOUR STORY!

WHAT YOU CAN SHARE

including but not limited to

- CAREER & RESEARCH
- LIFE AFTER USTC
- ENTREPRENEURIAL VENTURES
- CROSS-CULTURAL EXPERIENCES
- MEMORABLE USTC MOMENTS

FORMATS

- ARTICLES OR ESSAYS
- PHOTO STORIES
- SHORT VIDEOS
- INTERVIEWS

SUBMIT NOW!

intlalumni@ustc.edu.cn

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