NEWSLETTER

ASI Global

December 15, 2024

FEATURED STORY

ASI Global Spearheads Innovative Teacher Training Course on AI Empowering Education with DEFI at Cambridge

ASI Global, in close collaboration with the Digital Education Futures Initiative (DEFI) at the University of Cambridge, successfully completed the *Designing for the Classroom of the Future* teacher training course on November 22. ASI Global has been vigorously promoting the idea of AI-empowered education throughout 2024, and actively led initiatives to address the shifting demands of the digital education sector. This teacher training course represents a critical advancement in ASI Global's mission, equipping educators with enhanced digital skills and fostering an ecosystem where educational efficacy and digital responsibility are harmonized.

The *Designing for the Classroom of the Future* program targeted university teachers and educators, providing them with the practical tools and insights necessary to effectively leverage digital technologies in education. Throughout the one-week-long course, participants delved into the ethical dimensions of AI, learning how to ensure its use fosters inclusivity and fairness in their teaching. They experimented with AI-driven tools to create engaging and adaptive curricula, addressing diverse learning needs. The program also introduced innovative AI-based assessment techniques, enabling more personalized and adaptive learning evaluations. We believe that this program would equip university educators with a comprehensive understanding of these technologies and develop innovative strategies to enhance learning outcomes and propel educational innovation.

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Since March 2024, ASI Global and DEFI have joined forces with a shared vision: to transform education through the power of AI and advanced digital technologies. This forward-looking partnership has sparked a series of impactful initiatives, redefining how education can tackle global challenges and embrace innovation.

ASI Global Forged a Partnership with DEFI on March 1st, 2024

HUB Onsite Seminar: AI Empowering Education: Innovation and Future in Shenzhen

The collaboration debuted with a notable onsite seminar during the iHUB research program this July. Featuring Professor Steven Watson from DEFI at the University of Cambridge, the seminar in Shenzhen, themed *AI Empowering Education: Innovation and Future*, delved into how AI can drive innovative teaching methods and promote equitable access to education worldwide. Then as part of our shared vision, ASI Global launched the *AI for Research Competence* program together with DEFI at Cambridge. This intensive two-week initiative equipped participants from Guizhou University with advanced research skills and deeper insights into the transformative potential of educational technology. The collaborative efforts continued to gain momentum at ASI Global's academic exchange session *AI+: Digital Education for the Future* during the 24th China Annual Conference & Expo for International Education where Professor Rupert Wegerif, Director of DEFI and Professor of Education at the University of Cambridge delivered an instructive address, emphasizing AI's critical role in redefining educational systems and preparing for future challenges.

FEATURED STORY

ASI Global Spearheads Innovative Teacher Training Course on AI Empowering Education with DEFI at Cambridge

AI for Research Competence Program at Cambridge

Looking forward, ASI Global is set to further our collaboration with DEFI, continually developing joint research initiatives that will advance AI-driven educational innovation, establish international platforms for academic exchange, and explore cutting-edge approaches to educational transformation. Together, we are committed to driving the digitalization of education on a global scale, addressing the challenges and opportunities of the AI era, and contributing meaningful advancements to the field of education.

For more information on ASI Global and DEFI's latest initiatives, please visit: https://www.deficambridge.org/asi-global/.

FEATURED STORY

GEC Academy and Laser Learning Awards Join Forces to Empower Chinese Students with Advanced Academic Research Skills

On October 25, GEC Academy and Laser Learning Awards held a signing ceremony at the GEC London Office to celebrate our exclusive partnership. We are thrilled to announce that GEC is now the sole provider in China authorized to offer the LASER Level 3 Award in Research Skills for Academic Study.

Mr. Edison Yan, CEO of GEC Academy (left), and Ms. Fiona Summers, Deputy CEO of LASER (right) at the Signing Ceremony

Laser Learning Awards (LASER) is a distinguished international awarding organization with a 30-year legacy, regulated by Ofqual and licensed by QAA as an Access Validating Agency (AVA). Committed to rigorous educational standards, LASER collaborates with educational centers and institutions to deliver flexible, credit-based courses across various settings, aiming to empower learners through lifelong learning, inclusivity, and employer engagement, thereby ensuring adaptable, high-quality educational experiences that support continuous professional development.

The LASER Level 3 Award in Research Skills for Academic Study is a dynamic qualification designed to empower students with the critical research skills essential for advanced academic pursuits. Tailored for those seeking comprehensive research training and aspiring UK university applicants, this qualification is a gateway to mastering the art of research, from defining research methods to critically evaluating sources and effectively utilizing research materials. Its unique feature of converting into 8 UCAS Tariff Points significantly enhances students' application profiles, offering an alternative route to showcase their academic prowess and enhance their competitiveness in securing a place in their desired university. For more comprehensive details on this valuable opportunity, please refer to the **Flyer.**

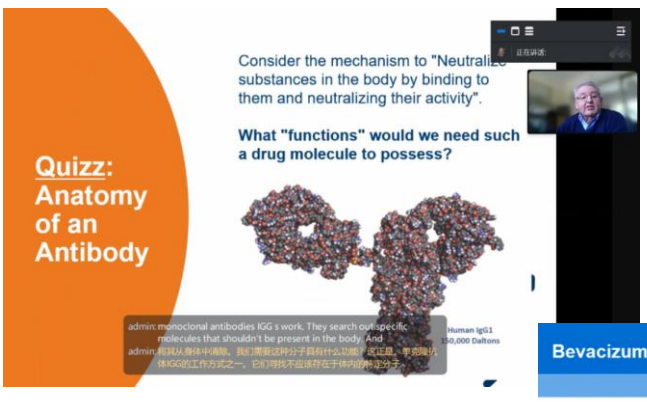
As the sole provider of the LASER Level 3 Award in Research Skills for Academic Study in China, we aim to utilize our profound experience in Project-Based Learning not only to equip students with the critical thinking and research capabilities that are indispensable in today's knowledge-driven world but also to enhance their competitiveness for getting into prestigious universities. The program is slated for an official launch on February 22, 2025. This collaboration between GEC and LASER reflects our joint vision of promoting academic excellence and innovation. By joining forces, we are committed to cultivating a community of learners who are ready to face the challenges of higher education and beyond, positioning them to contribute significantly on a global scale.

Global Top Scientists Forum Recap

Revolutionizing Medicine: Professor Nigel Slater's Insights on Biopharmaceuticals at the November Global Top Scientists Forum

At the November Global Top Scientists Forum on November 29th, hosted online by ASI Global, **Nigel Slater, Professor of Chemical Engineering at the University of Cambridge**, delivered an open lecture on **Medicines from Biotechnology**. This session highlighted the cutting-edge advancements in biopharmaceuticals, showcasing their critical role in modern medicine.

Professor Nigel Slater is a prominent expert in the field of biopharmaceutical manufacturing and formulation. His extensive research focuses on cellular and gene therapies, particularly in developing therapeutic proteins, DNA, viruses, and cells. Professor Slater's innovative contributions include the development of AAV gene vectors and nanoparticles for ocular therapy, as well as advanced techniques in preserving pancreatic islets for diabetes treatment.



Professor Slater Explaining the Mechanism of Action of Monoclonal Antibodies

Professor Slater Introducing Bevacizumab

Aiming to enhance students' comprehension of biotechnological applications in healthcare, Professor Slater delivered a detailed overview of biopharmaceuticals at the Global Top Scientists Forum. He highlighted their critical role in contemporary medicine, particularly showcasing advancements in gene therapy and nanoparticle treatments for ocular conditions. Professor Slater also addressed the significant challenges in cell preservation, which are essential for progress in diabetes therapy. The lecture is designed to spark innovation and equip participants with the knowledge and skills needed for future careers in medical research and development.

Global Top Scientists Forum Recap

Here's a brief recap of Medicines from Biotechnology:

- **An introduction to biopharmaceutical**

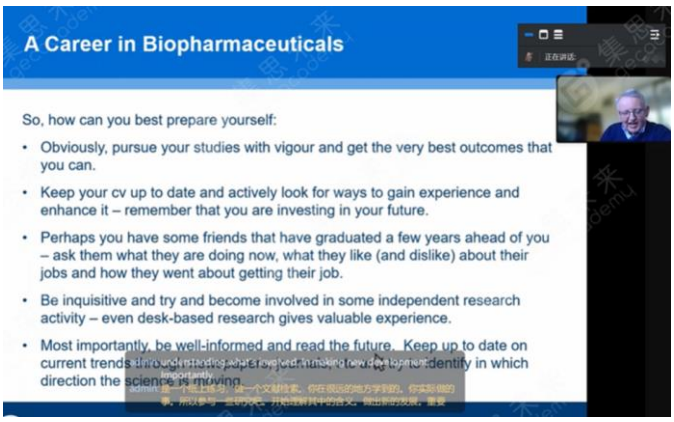
Professor Slater defined biopharmaceuticals as advanced therapeutic drugs produced through biotechnological processes involving living organisms or their cells. He highlighted their crucial role in revolutionizing the treatment of various diseases over the past few decades and pointed out the intricacies involved in developing biopharmaceuticals compared to traditional small-molecule drugs, citing the unique challenges and opportunities they present in modern medicine.

- **Case studies of successful biopharmaceuticals and their mechanisms of action**

Focusing on monoclonal antibodies, Professor Slater discussed their targeted action against specific antigens to facilitate their destruction by the immune system, thereby treating diseases like cancer and autoimmune disorders. Specially, he discussed the technical aspects of how biopharmaceuticals work in the body, such as replacing or supplementing natural biomolecules, enhancing immune responses, and neutralizing harmful substances like toxins and pathogens, noting their precision and therapeutic potential over conventional drugs. Professor Slater also provided examples of successful biopharmaceuticals, like **Bevacizumab (Avastin)** for inhibiting tumor blood vessel growth in cancer and **Natalizumab** for treating multiple sclerosis by blocking immune cells from entering the brain and spinal cord.

- **Challenges and opportunities of biopharmaceuticals**

According to Professor Slater, the biopharmaceutical industry faces multifaceted challenges. For example, the meticulous nature of **clinical testing** involves stringent safety protocols and significant discrepancies between animal and human responses, which can complicate the drug approval process. Additionally, **manufacturing these complex drugs necessitates highly controlled environments to ensure batch consistency**, a task complicated by the inherent biological variability in living cell-based production systems, and maintaining quality and purity is an ongoing, critical endeavor. While Professor Slater then expressed optimism about the future of **personalized medicine and cell therapies**, which he believes will revolutionize treatment based on individual genetic profiles.



Professor Slater Offering Advice for Future Professionals

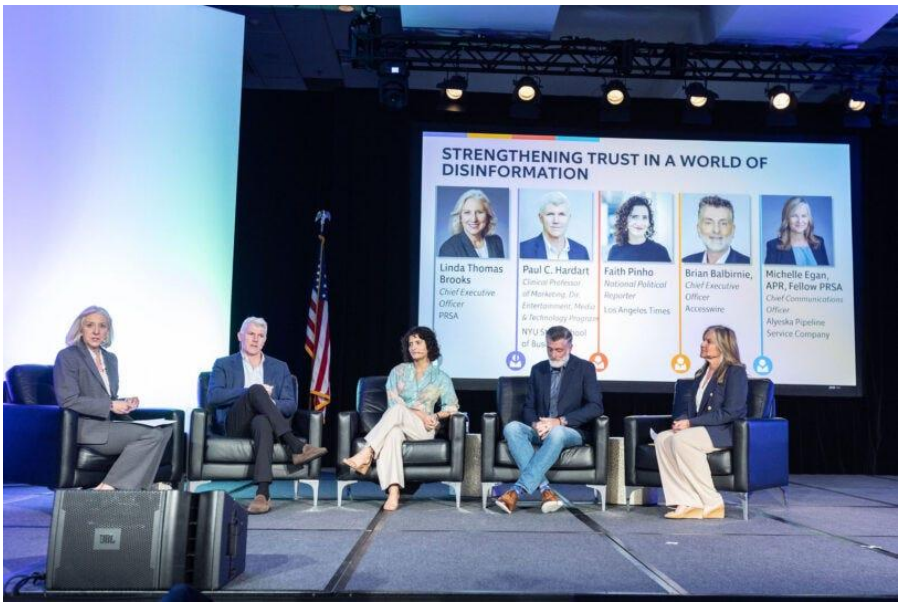
- **Q&A Session**

During the Q&A session, Professor Slater **discussed the integration of personalized medicine into the future of biopharmaceuticals and the challenges of widespread adoption**. He acknowledged the enormous potential of personalized medicine but highlighted the difficulty of implementing it on a large scale for each patient's different needs. He noted a generational shift towards **developing tailored treatments**, which could fundamentally alter therapeutic approaches in the future, and therefore, advising students and young professionals to engage in rigorous studies, stay informed about technological advancements, and contribute to the development of the field.

Faculty Work Gallery

This month we introduced ***a panel recap at ICON 2024, featuring Professor Paul Hardart, Clinical Professor of Marketing at NYU Stern School of Business as one of the guest speakers.*** *. If you are interested in showcasing your research, grants, book releases, conference presentations, or any work you deem valuable and interesting to share, please feel free to contact us.*

ICON 2024 Recap: A Panel on *Strengthening Trust in a World of Disinformation*



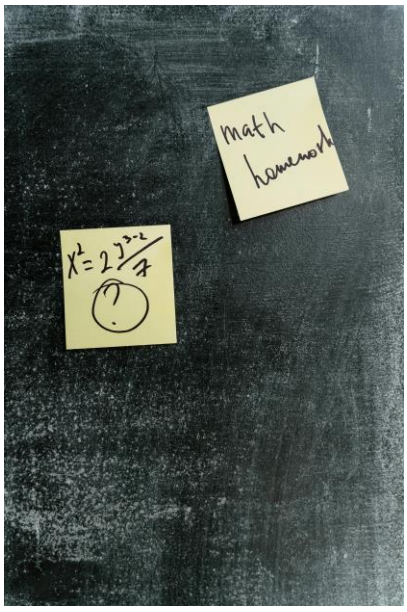
The insightful discussion featured a wide range of topics related to misinformation and disinformation, including consumers declining trust in the media, storytelling and fact-checking, guiding clients in recognizing and combating false information, AI's potential for good and bad, strategies to help safeguard the truth, and more.

Please click **HERE** to find more information about this panel.

AMAZING WORK FROM GEC STUDENTS

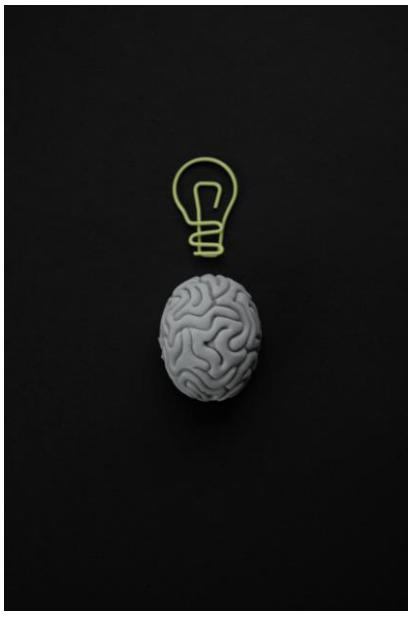
Each month, GEC will introduce some of our exceptional students' work in a specific research area to our audiences. This month we selected two articles from our previous students in the field of **Logic Studies.**

Analysis the Nature of Logic: the Distinctions Between Logic and Mathematics



The paper aims to explore the distinctions between logic and mathematics. Logic and mathematics have always been important branches of human knowledge, closely related in many ways and with far-reaching consequences in areas such as science, technology and philosophy. This paper will first explain the fundamental concepts of mathematics and logic, then delve into the two main differences between logic and mathematics, and finally, point out the limitations in the study of mathematics and logic.

Click **HERE** to read the full text!



Nature vs. Nurture: Is the Origin of Logic Innate or Acquired

The study of logic since 5 BCE has given rise to various logical systems, such as theological, classical, and intuitionistic. There are applications in various fields such as semantics and philosophy. The question of whether logic is inherent or acquired through experience has long been debated by rationalists and empiricists. This research aims to elaborate on the long-lasting debate about the innate nature of logic through exploring fields such as neuroscience and psychology.

Click **HERE** to read the full text!

December 15, 2024

Join Us at ASI Global Technical Sponsorship Conferences: Open Calling for Committee Members & Speakers

We are thrilled to hear from our GEC faculty members, teaching fellows, teaching assistants (PhD holders), and scholars.

Since 2023, ASI Global has taken immense pride in its role as a technical sponsor for a diverse array of international academic conferences, with a vision entailing both promoting interdisciplinary cooperation and nurturing an inclusive, collaborative educational environment that extends its benefits beyond the scientific community to society at large. **Hence, we are enthusiastic about extending invitations to more of our esteemed GEC Faculty members and Teaching Fellows, encouraging your active involvement as committee members or innovative speakers and storytellers,** who are passionate about sharing innovative ideas with the brightest minds, providing enriching insights, offering innovative experiences, and sharing real-world examples, among other valuable contributions to ASI Global technical sponsorship conferences.

Upcoming Conferences

For December, we have 2 technical sponsorship conferences covering fintech, blockchain applications, digital banking, algorithmic trading, risk management in the digital age, data-driven decision-making, scientific computing, data mining, big data, data analytics, machine learning, computer modeling, cloud computing and beyond.

- December 20 to 22, Kuala Lumpur, Malaysia
- The 2024 2nd International Conference on Financial Management and the Digital Economy

- December 27 to 29, Kuala Lumpur, Malaysia
- The 2024 2nd International Conference on Data Analysis and Machine Learning

WHAT PROGRAMS DOES GEC OFFER IN NOV. & DEC. 2024 SEMESTERS?

In November and December, GEC launches a total of 43 online research programs in the areas of Finance, Computer Science, Business Administration, Electrical Engineering, Chemical Engineering, Mathematics, Public Health and so on, partners with 3 Chinese universities to develop students' global competence through the GEC Global Competence Development Course. In November and December, GEC also sets up 11 customized lectures for Southwestern University of Finance and Economics, Chongqing University of Posts and Telecommunications, and Fujian Medical University. We will continue to gather students, faculty, and staff for an unrivaled academic experience.

The tables below show detailed information about the programs:

GEC 2024 November Program List,
Universities offering GEC Global Competence Courses in November 2024,
GEC Customized Lectures for Universities in November 2024,
GEC 2024 December Program List,
Universities offering GEC Global Competence Courses in December 2024,
GEC Customized Lectures for Universities in December 2024

Please click **HERE** to find previous program/course offerings.

Newsletter Improvement Survey

We would love to hear your thoughts or feedback on how we can improve your experience with our newsletter.

For your convenience, please click **HERE** to fill out the survey link.

ASI Global

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