

INSTITUTE OF ADVANCED STUDIES

NANYANG
TECHNOLOGICAL
UNIVERSITY

Catalyse high-impact research | Transcend disciplinary boundaries | Expand knowledge & education frontiers

FEATURED ARTICLES

2022 Nobel Prize in Physiology or Medicine



The Nobel Prize in Physiology or Medicine 2022 was recently awarded to Prof Svante Pääbo for his discoveries concerning the genomes of extinct hominins and human evolution. Regarded as the founder of paleogenetics, his tireless work helps in bringing us closer to understanding the Human Tree of Life.

[Read more](#)

IAS Distinguished Fellow



A warm welcome to our newly appointed IAS Distinguished Fellow Prof Luke Ong (Distinguished University Professor and Vice President of Research; Professor, School of Computer Science and Engineering, NTU).

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EVENT HIGHLIGHTS

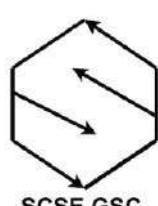
50 Years of Physics in Singapore: A Symposium in Celebration of Prof KK Phua | 3 February 2023



Prof Phua Kok-Khoo, Founding Director Emeritus of IAS NTU as well as Adjunct Professor at NTU and NUS, is one of the key champions of physics causes in Singapore. The symposium was held in celebration of his contributions in energising the physics community and the diversity of physics activity in Singapore. The event also surveyed the history of physics in Singapore over the last 50 years. The diverse crowd of speakers ranged from early pioneers of theoretical physics in Singapore to present-day scientists pushing the frontiers of quantum science and technology.

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Discovery Science Seminars Jointly Organised with the Graduate Students' Clubs



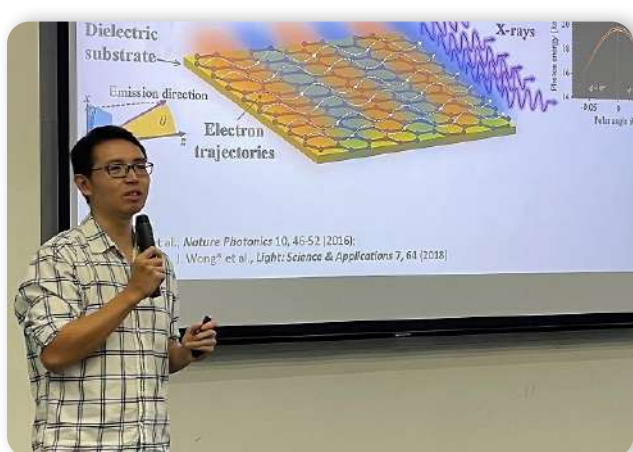
“AI-Empower Monitoring and Intervention of Neurodegenerative Diseases in Community Settings” by Dr Zeng Zhiwei | 7 March 2023



Dr Zeng is Presidential Postdoctoral Fellow at the Joint NTU-University of British Columbia Research Centre of Excellence in Active Living for the Elderly. In this seminar, she discussed the landscape of rapidly aging populations, and her team's efforts to bring more accessible and personalised long-term medical care to the community level using AI based tools for filtering individuals at a high risk of developing neurodegenerative diseases. The interdisciplinary research seminar was jointly organised with the Graduate Students' Clubs of SCSE and SPMS.

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“Towards Next-Generation X-ray Imaging with Tunable X-rays and Quantum Recoil” by Nanyang Assistant Professor Wong Liang Jie | 29 March 2023



In this seminar jointly organised with the Graduate Students' Clubs of EEE, SCSE and SPMS, Nanyang Asst Prof Wong Liang Jie (EEE) discussed the development of X-rays and charged particle light emission, and presented his team's findings on the significance of quantum recoil, particularly when dealing with nanoscale and subnanoscale periodicities, paving the way for more precise X-ray technology. He also shared his insights and lessons learnt in the commercialisation of such a breakthrough discovery etc.

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UPCOMING EVENT

**IAS Distinguished Fellow Lecture
“Green and Biocompatible Reactions:
From Discovery to Applications” by
Prof Loh Teck-Peng (Distinguished
University Professor, CCEB, NTU)**

6 April 2023 | 3.30pm, SPMS LT3

[Register now](#)



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April 2023