

DEPARTMENT OF MATHEMATICS NATIONAL UNIVERSITY OF SINGAPORE

Our Milestones 1929-2025

## HEADS OF DEPARTMENT - FROM INCEPTION TO PRESENT

1931 – 1959	Prof Alexander Oppenheir
1959 – 1962	Prof Daniel Pedoe
1962 – 1979	Prof P.H.Diananda
1979 – 1980	Prof Kumkum Kumar Sen
1980 – 1982	Prof TEH Hoon Heng
1982 – 1996	Prof PENG Tsu Ann
1996 – 2000	Prof Louis CHEN Hsiao Yur
2000 – 2006	Prof LEE Seng Luan
2006 – 2012	Prof CHONG Chi Tat
2012 – 2014	Prof SHEN Zuowei
2014 – 2020	Prof ZHU Chengbo
2020 – 2023	Prof TOH Kim Chuan
2023 – Present	Prof GAN Wee Teck











Top Row (from left):
Prof Alexander Oppenheim, Prof Daniel Pedoe, Prof TEH Hoon Heng, Prof PENG Tsu Ann and Prof Louis CHEN
Hsiao Yun

Bottom Row (from left): Prof LEE Seng Luan, Prof CHONG Chi Tat, Prof SHEN Zuowei, Prof ZHU Chengbo, Prof TOH Kim Chuan and Prof GAN Wee Teck











## HEADS OF DEPARTMENT - A SNAPSHOT IN 2013



From left to right:
Prof LEE Seng Luan, Prof PENG Tsu Ann, Prof SHEN Zuowei,
Prof CHONG Chi Tat and Prof Louis CHEN

1929 1931 to 1946 1949

#### 1929

■ The Department of Mathematics was among its first departments when Raffles College was officially opened in 1929. There was only one faculty member — Raymond K. Butchart from Scotland. Professor Butchart was a Fellow of the Royal Society of Edinburgh.

1931 to 1946 Professor Raymond K. Butchart

■ The Department had 2 faculty members — Professor Alexander Oppenheim and one lecturer J.C. Cooke. They were assisted for many years by K.M.R. Menon of the Education Department of the Straits Settlement. Menon eventually joined the Department as Lecturer in 1951 and left the university on retirement in 1955. Mathematics was taught to both Arts and Science students, and until 1940, the number of Arts and Sciences students did not exceed 50.

### 1949

Professor Alexander Oppenheim

■This year saw the formation of the University of Malaya. Professor Oppenheim continued as Professor of Mathematics and Head of Department. In January 1957, Professor Oppenheim was appointed Vice Chancellor of the University of Malaya for 2 years after which he was to return to his position as Head of Department. But in January 1959, he was re-appointed as Vice Chancellor of the University of Malaya for five years and he retired from the Chair of Mathematics which he had occupied for 28 years. He was later honoured by the government of Malaya with the award of Tan Sri and was knighted by the British government.

## 1950s

#### 1950 to 1951

•The Department of Mathematics, now part of the University of Malaya, introduced its first honours course in Mathematics, with 4 students. Students in the honours year had to read the same subjects in pure and applied mathematics and sat for six papers at the end of the course.

#### 1952

• Members of the Department, with the help of some school teachers in mathematics, founded the Malayan Mathematical Society (later known as the Singapore Mathematical Society), with Professor Oppenheim as its president. Its aim was to raise the standard of mathematical education in the schools and to foster relations between those interested in mathematics in Singapore and the then Federation of Malaya. The Society also published a bulletin (the Bulletin of the Malayan Mathematical Society) containing mainly articles of general interest to its members. In 1956, the Society organized its first inter-school mathematical competition which attracted a large number of 345 candidates. The bulletin was discontinued in the 1970's. The inter-school competition continued till present, in its current form as the Singapore Mathematical Olympiad (SMO).

## 1950s

#### 1951 to 1957

New faculty members joined the department during this period:

- 1951 P.H.Diananda and Richard. K. Guy, both lecturers.
- 1952 Eric. C. Milner and Malcolm. J. Wicks, both assistant lecturers. Wicks retired in 1988 and remained in Singapore after retirement.
- 1957 Peter Lancaster, assistant lecturer.
- In the 1950s, Professor Oppenheim arranged visits by a good number of notable mathematicians, including several visits by Paul Erdos. At a later stage in their careers, Guy co-authored 4 papers with Erdos and Milner co-authored 15 papers with Erdos. Hence, Guy and Milner had Erdos number 1.
- In 1964, Lancaster became the first person since founding of Raffles College to receive a Ph.D. degree in mathematics in Singapore. Lancaster was supervised by Daniel Pedoe.
- Guy, Milner and Lancaster left to join the University of Calgary in the 1960s.



Malcolm. J. Wicks

1950s

### 1956

 Nanyang University or Nantah was built from contributions and resources pooled from the Chinese Community, and a Department of Mathematics was formed.



1960s

#### 1960s

■ The University of Singapore was established on 1 January, 1962.

#### From the 1950s to 1960s

- The Department of Mathematics remained small with about 10 staff members, but number of students studying Math increased rapidly. There were 44 honours students in the 1969-1970 batch. From 1949 to 1969, there was little change in the curriculum except for the introduction of courses in probability and statistics in the late 1960s.
- Peng Tsu Ann was the first Singaporean student to return from abroad with a PhD in mathematics, in 1965.

### Notable publication

E.J. Brody, The topological classification of the Lens spaces, Ann. of Math., 1960.

## 1970s

#### 1970s

- Changes in curriculum including introduction of new courses in Numerical Analysis and Operations Research
- Members of the Department started Mathematical Medley, a publication of the Singapore Mathematical Society dedicated to the promotion of mathematics in Singapore. Its first issue was published in 1973.

#### 1979

■ The Department of Mathematics at Nanyang University organized the First Franco-Southeast Asian Mathematical Conference, in which ten leading French mathematicians, including Jean Dieudonné, Jacques L. Lions and Laurent Schwartz, were invited speakers.

### Notable Publication

■ Prof Louis Chen published a seminal paper "Poisson approximation for dependent trials" in the Annals of Probability, 1975.

The Annals of Probability 1975, Vol. 3, No. 3, 534-545

#### POISSON APPROXIMATION FOR DEPENDENT TRIALS

By Louis H. Y. CHEN University of Singapore

Let  $X_1, \dots, X_n$  be an arbitrary sequence of dependent Bernoulli random variables with  $P(X_i = 1) = 1 - P(X_i = 0) = p_i$ . This paper establishes a

general method of obtaining and bounding the error in approximating the distribution of  $\sum_{i=1}^{n} X_i$  by the Poisson distribution. A few approximation hoorems are proved under the mixing condition of Ibragimov (1959) (1962). One of them yields, as a special case and with some improvement an approximation theorem of Le Cam (1960) for the Poisson binomial distribution. The possibility of an asymptotic expansion is also discussed and a refinement in the independent case obtained. The method is similar to that of Charles Stein (1970) in his paper on the normal approximation for

0. Introduction. Let X1, X2, ..., X4 be independent Bernoulli random variables with  $P(X_i = 1) = 1 - P(X_i = 0) = p_i$ . There has been considerable theoretical interest in how well the Poisson distribution approximates the distribution of  $\sum_{i=1}^{n} X_i$ . Prohorov (1953) showed that, in the case where all  $\rho_i = \lambda/n$ ,

$$\textstyle \sum_{k=0}^{\infty} |P(\sum_{i=1}^{n} X_i = k) - e^{-\lambda} \lambda^k / k!| \leq (\lambda/n) [2(2\pi e)^{-1} + O(\min(1, \lambda^{-1}))].$$

The bound was later improved considerably by Kerstan (1964) to 1.23/n and Vervaat (1969) to  $(2^{\frac{1}{2}\lambda/n})(1-\lambda/n)^{-1}$ . Hodges and Le Cam (1960) used an elementary argument to show that, in the general case with  $\lambda = \sum_{i=1}^{n} \rho_{i}$ , the difference between  $P(\sum_{i=1}^{n} X_i \le x)$  and  $\sum_{k \le k} e^{-\lambda} \lambda^k / k!$  is at most  $3(\max_{1 \le i \le n} p_i)^k$ . At the same time, Le Cam (1960) proved that for every real-valued function h defined on the nonnegative integers such that  $|h| \le 1$ ,

$$|Eh(\sum_{i=1}^{n} X_i) - \mathcal{P}_i h| \le 2 \sum_{i=1}^{n} \rho_i^{x}$$

$$|Eh(\sum_{i=1}^{n} X_i) - \mathcal{P}_i h| \le 9 \max_{1 \le i \le n} p_i$$

(0.3) 
$$|Eh(\sum_{i=1}^{n} X_i) - \mathcal{P}_i h| \le 16\lambda^{-1} \sum_{i=1}^{n} p_i^{-1} \pmod{\max_{1 \le i \le n} p_i \le \frac{1}{4}}$$
 where

$$\mathcal{P}_{\lambda}h = \sum_{k=0}^{\infty} e^{-i}\lambda^k h(k)/k!$$

 $\lambda = \sum_{i=1}^{n} p_i$ .

This discrepancy between the distribution of  $\sum_{i=1}^n X_i$  and the Poisson distribution considered by Le Cam is equivalent to that considered by Prohorov, Kerstan and Vervaat as mentioned above, in view of the fact that the supremum of

Received May 21, 1973; revised August 5, 1974. AMS 1970 subject classifications. Primary 60F05, 62E20; Secondary 60G99. Key words and phrases. Poisson approximation, rates of convergence, dependent trials.

## 1980s

- The National University of Singapore was formed with the merger of the University of Singapore and Nanyang University in 1980.
- Department entered a new era. As a result of the merger, the Department acquired a staff strength of about 35.
- New campus in Kent Ridge, transfer of faculties and departments completed in 1986.
- Department organized more than 10 conferences and workshops at the research level. This includes a major international conference the "Singapore Group Theory Conference", in 1987. Participants included W.Feit, G. Higman, J.-P.Serre, M. Suzuki, and J. G. Thompson. (The mainfunding for these meetings came from the Department's Lee Kong Chian Centre for Mathematical Research which received an annual grant from the Lee Foundation. The Centre was first established in Nanyang University.)
- Department sent some of her best honours graduates for PhDs in top overseas schools, under the Senior Tutorship Scheme.
- Department started recruiting international faculty in significant numbers from the late 1980s.
- Department had a staff of about 75 in 1989.

"Singapore Group Theory Conference", in 1987.

Participants included W.Feit, G. Higman, J.-P.Serre, M. Suzuki, and J. G. Thompson.



## 1990s

- The Department works towards providing an innovative teaching programme that covers very broad areas of mathematics, and designs its courses and programmes to cater to the diverse need of students.
- Prof CHONG Chi Tat was appointed as Deputy Vice Chancellor of NUSin 1996.
- The Department of Statistics and Applied Probability (DSAP) was formed in 1998, with the majority of its staff from the Department and the rest from other parts of the university, notably from the Faculty of Arts and Social Sciences.

1990s

1990s

### Research

- Research in mathematics is carried out in each of the six divisions of the Department, namely Algebra, Analysis, Geometry, Applied Mathematics, Combinatorics & Operations Research, and Statistics. The Department has also built up research groups to focus on strategic areas of research which are directly relevant to the economy of Singapore. These include: Cryptography and Computer Security; Mathematical Economics and Financial Mathematics and Wavelets Strategic Research Programme
- The Department hosted the Center for Financial Engineering (CFE), which offered the MSc in Financial Engineering (MFE).

  CFE was the predecessor of the NUSRisk Management Institute (RMI). The latter was established in 2006 by NUSas a university-level research institute dedicated to the area of financial risk management.
- The Wavelets Strategic Research Programme was carried out through the Centre for Wavelets, Approximation and Information Processing (CWAIP), a faculty-level research center.

## 1990s

### **Staff Receiving National Honours**

- Prof Louis Chen was the first faculty member of the Department to receive the National Science and Technology Award in 1991, and subsequently Excellence for Singapore Award in 1997.
- Prof LEE Seng Luan, Dr SHEN Zuowei and A/Prof Wayne Lawton won for the department its first National Science Award in 1998. Other National Science Awards that followed were won by A/Prof SUN Yeneng (2000), Prof Harald Niederreiter, A/Profs LING San and XING Chaoping (2003), and Prof A.J. Berrick and A/Prof WU Jie (2007).
- Dr ZHU Chengbo and Dr CHAN Heng Huat received the Singapore Young Scientist Award respectively in 1998 and 1999.

### **Notable Publications**

- M. Ru, Integral points of PN Integral Points of PN (2N+1 Hyperplans in General Position), Invent. Math., 1991.
- Dr TOH Kim Chuan co-authored an influential paper "SDPT3 A Matlab software package for semidefinite programming, Version 1.3" in Optimization Methods and Software, 1999.



**Prof Louis CHEN** 



Dr SHEN Zuowei, Prof LEE Seng Luan and A/Prof Wayne LAWTON

2000s



### 2000

■ The Institute for Mathematical Sciences (IMS) was established on 1 July 2000 as a university-level research institute, with Prof Louis Chen as the founding director.

The mission of the Institute is to foster mathematical research, both fundamental and multidisciplinary, in particular, research that links mathematics to other disciplines, to nurture the growth of mathematical expertise among research scientists, to train talent for research in the mathematical sciences, and to serve as a platform for research interaction between the scientific community in Singapore and the wider international community.

- Singapore-Warwick Initiative in Mathematical Sciences (SWIMS), a four-year international collaboration project, commenced in 2000. It sponsored the Singapore International Symposium on Topology and Geometry (SISTAG) in July 2001 in NUS.
- International Conference on Fundamental Sciences: Mathematics and Theoretical Physics 2000 was held in Singapore. Its aim was to address challenges in mathematics and theoretical physics for the twenty-first century, and was jointly organized by the Faculty of Science (NUS) and the Isaac Newton Institute for Mathematical Sciences (Cambridge University).
- In January 2001, the Department took ownership of the Major in Computational Finance, a multidisciplinary programme that combines mathematics, statistics, finance and computing. It changed its name to Major in Quantitative Finance in 2004/2005.



Prof LAM Lay Yong



Prof CHONG Chi Tat

- Prof Lam Lay Yong was awarded the Kenneth O. May Prize in history of mathematics in 2001 for her profound scholarship on Chinese mathematics. Prof Lam was the first Asian and first woman to have won this highest award in history of mathematics. She was also the first faculty member to win an international award.
- A/Prof LING San and A/Prof CHAN Heng Huat received the Singapore Youth Award respectively in 2001 and 2003.
- Prof CHONG Chi Tat received the Public Administration Medal (Gold), 2002 National Day Awards.
- Prof Harald Niederreiter was the first faculty member to give an invited lecture at the International Congress on Industrial and Applied Mathematics (ICIAM) 2003, held in Sydney, Australia.
- Prof CHONG Chi Tat was named University Professor, the highest academic appointment in NUS, in 2004.

### 2000s

#### 2005

- ■The Special Program in Mathematics (SPM) is launched. Its aim is to nurture talented students with passion in mathematics and to enable these students to build a solid foundation for a future career in mathematical research or state-of-the-art application in industry.
- Prof LING San was appointed as Head of the Division of Mathematical Sciences, of the newly formed School of Physical and Mathematical Sciences, NTU.
- ■The 4th Asian Mathematical Conference (AMC 2005) was held in NUS in conjunction with the centennial celebration of NUS.

#### 2007

Prof TAN Eng Chye was appointed as Deputy President (Academic Affairs) and Provost, NUS.





Prof TAN Eng Chye

### 2000s - 2010s

### Notable Publications

- A. Dembo, B. Poonen, Q.-M. Shao and O. Zeitouni, Random polynomials having few or no real zeros, J. Amer. Math. Soc., 2000.
- J. Berrick, F. R. Cohen, Y. L. Wong and J. Wu, Configurations, braids, and homotopy groups, J. Amer. Math. Soc., 2006.
- **D.Q. Zhang,** A theorem of Tits type for compact Kahler manifolds, Invent. Math., 2009.
- A. Avila, J. Kahn, M. Lyubich and W. Shen, Combinatorial rigidity for unicritical polynomials, Ann. of Math., 2009.
- S.H. Yu, Nonlinear Wave Propagations over a Boltzmann Shock Profile. J. Amer. Math. Soc., 2010.
- J.-F. Cai, B. Dong, S. Osher and **Z.W. Shen**, Image restoration: total variation, waveletframes, and beyond, J. Amer. Math. Soc., 2012.
- X.Z. Chen and X.W. Xu, The scalar curvature flow on S^n perturbation theorem revisited, Invent. Math., 2012.
- B. Sun and C.-B. Zhu, Multiplicity one theorems: the Archimedean case, Ann. of Math., 2012.
- C.T. Chong, Theodore A. Slaman and Y. Yang, The metamathematics of Stable Ramsey's Theorem for pairs, J. Amer. Math. Soc., 2014.
- W.T.Gan, Y.Qiu and S. Takeda, The regularized Siegel-Weil formula (the second term identity) and the Rallis inner product formula, Invent. Math., 2014.
- W.T.Gan and A. Ichino, Formal degrees and local theta correspondence, Invent. Math., 2014.
- W.-K. To and S.-K. Yeung, Finsler metrics and Kobayashi hyperbolicity of the moduli spaces of canonically polarized manifold, Ann. of Math., 2015.
- B. Sun and C.-B. Zhu, Conservation relations for local theta correspondence, J. Amer. Math. Soc., 2015.
- Prof SHEN Zuowei co-authored an influential paper "ASingular Value Thresholding Algorithm for Matrix Completion" in SIAM Journal on Optimization, 2010.

## 2000s - 2010s

#### 2009

- The Department started the Masters in Science in Quantitative Finance by Course Work (MQF), with its first intake in AY2009/10.
- Prof SHEN Weixiao was awarded the "Chern Shiing Shen Prize", by the Chinese Mathematical Society.

#### 2010

■ Prof SHEN Zuowei was the first faculty member to speak at the International Congress of Mathematicians held in Hyderabad, India.

### 2011-2014

- Six of our faculty members were elected as fellows of the Singapore National Academy of Science:
  - Profs Louis Chen, CHONG Chi Tat, SHEN Zuowei, TAN Eng Chye (2011)
- Profs SUN Yeneng, ZHU Chengbo (2014)



ProfSHEN Zuowei at ICM 2010, India.

### 2012 and 2013

#### 2012

- The Department established the Center for Quantitative Finance (CQF), with the aim of advancing knowledge and expertise in the realms of quantitative and computational finance.
- Prof SHEN Zuowei received the Wavelet Pioneer Award from the Society of Photographic Instrumentation Engineers (SPIE), USA.
- The Department's alumnus YEO Sze Ling (BSc Hons, class of 2001, and PhD, class of 2006) received the Singapore Youth Award 2012.

#### 2013

■ Prof BAO Weizhu was awarded the 10th Feng Kang Prize for Scientific Computing by the Chinese Academy of Sciences.

2014



- Fourfaculty members Profs BAO Weizhu, GAN Wee Teck, SHEN Weixiao and YU Shih-Hsien (from left to right in above photo ) were invited to give talks at the International Congress of Mathematicians (ICM) held in Seoul, Korea.
- Prof TAN Eng Chye received the Public Administration Medal (Gold), 2014 National Day Awards.

### 2015

- The Department and the IMS started a distinguished lecture series, called the Oppenheim Lectures, in honour of Sir Alexander Oppenheim. The inaugural Oppenheim Lecture was delivered by Prof NGO Bao Chau (University of Chicago and 2010 Fields Medallist).
- The Department established a new University-level award titled "Medal of Excellence in Mathematics". This is an annual award to a student in Mathematics who has obtained First Class honours and who has also demonstrated excellence and potential in the pursuit of Mathematics.
- Prof SHEN Zuowei gave an invited lecture at the 8th International Congress on Industrial and Applied Mathematics (ICIAM), held in Beijing, China.
- A/Prof REN Weiqing was awarded the 11th Feng Kang Prize of Scientific Computing by the Chinese Academy of Sciences.
- The Department established a new University-level award titled "Louis Chen Hsiao Yun Best Dissertation Prize". This prize is awarded annually to the student with the best PhD thesis in the field of mathematics or applied mathematics, and is open to all graduating PhD students from the Department of Mathematics.



Prof NGO Bao Chau

### 2016

- Prof Emmanuel Candes (Stanford University) delivered the Oppenheim Lecture 2016.
- Prof GAN Wee Teck was appointed as a Distinguished Professor of the University.
- The Department of Mathematics and the Department of Statistics and Applied Probability, in conjunction with the Department of Computer Science in the School of Computing, launched the four-year direct Honours degree programme in Data Science and Analytics (DSA) from Academic Year 2016/2017. This interdisciplinary programme integrates knowledge, concepts and applications from mathematics, statistics and computer science.



**Prof Emmanuel Candes** 

### 2017



**Prof Elon Lindenstrauss** 

- Prof SHEN Zuowei was elected as a Fellow of the American Mathematical Society.
- Prof Elon Lindenstrauss (Hebrew University and Fields Medallist 2010) delivered the Oppenheim Lecture 2017.
- Prof TAN Eng Chye was appointed as President of NUS, from January 1, 2018.
- The Department extended the Master of Science in Quantitative Finance (MQF) to Shanghai, in collaboration with the School of Mathematical Sciences at Shanghai Jiao Tong University.
- Prof TOH Kim Chuan was awarded the Farkas Prize of the INFORMSOptimization Society.
- Prof GAN Wee Teck was awarded the President's Science Award (2017).

### 2018

- Prof TOH Kim Chuan was conferred the Society for Industrial and Applied Mathematics (SIAM) Fellowship (Class of 2018).
- Prof GAN Wee Teck was elected as a fellow of the Singapore National Academy of Science (SNAS).
- Professor Jean-Pierre Serre (College de France and Fields Medallist 1954) delivered the Oppenheim Lecture 2018.
- Prof TOH Kim Chuan, Prof SUN Defeng and Dr YANG Liuqin (NUS PhD, 2016) was awarded the Beale-Orchard-Hays Prize by the Mathematical Optimization Society.
- Prof DINH Tien Cuong gave an invited lecture at the International Congress of Mathematicians (ICM) held in Rio de Janeiro, Brazil.
- Prof TAN Eng Chye was awarded the Wilbur Lucius Cross Medal, by Yale University and the Yale Graduate School Alumni Association.
- Prof TAN Eng Chye was awarded with an Honorary Doctor of Science from the University of Southampton, UK.



**Prof DINH Tien Cuong** 

### 2019

- The Department celebrated her 90th anniversary. Commemorative activities include a public lecture by Emeritus Prof Louis Chen, Celebratory Reception and Opening Show of NUSArts Festival 2019: A Disappearing Number, 90th Anniversary Distinguished Lectures by David Vogan (MIT) and by Jean-Bernard Lasserre (LAAS-CNRS).
- Prof DINH Tien Cuong was awarded the Humboldt Research Award by the Alexander von Humboldt Foundation.
- Prof SHEN Zuowei was conferred the Society for Industrial and Applied Mathematics (SIAM) Fellowship (Class of 2019).
- Prof TOH Kim Chuan was awarded the President's Science Award (2019).



**Prof SHEN Zuowei** 

## 2020



**Prof SUN Yeneng** 

- Prof BAO Huanchen, joint with Prof Weiqiang WANG (University of Virginia), was awarded the Chevalley Prize in Lie Theory by the American Mathematical Society.
- Prof SHEN Zuowei was elected as a fellow of The World Academy of Sciences (TWAS).
- Prof SUN Yeneng was appointed as the Dean of Science.
- The Department launched the Master of Science in Data Science and Machine Learning (DSML), in collaboration with the Department of Statistics and Applied Probability and Department of Computer Science in the School of Computing.

### 2021

- The Department established the Louis Chen Science Merit Scholarship in Emeritus Prof Louis Chen's honour, with funds from friends and colleagues.
- The Department established the Centre for Data Science and Machine Learning, reshaped and expanded from its predecessor, the Centre for Wavelets, Approximation and Information Processing (CWAIP).
- Prof Frank Stephan and Dr Li Wei, joint with Prof Sanjay Jain (NUS Computer Science), Prof Cristian Calude (University of Auckland), Prof Bakhadyr Khoussainov (University of Electronic Science and Technology of China and University of Auckland), were awarded the EATCS-IPEC Nerode Prize by the European Association for Theoretical Computer Science and the International Symposium on Parameterized and Exact Computation.
- Prof BAO Weizhu was elected as a Fellow of the American Mathematical Society.

## 2022

- Prof Caucker Birkar (Tsinghua University and Field Medallist 2018) delivered the Oppenheim Lecture 2022 online.
- Prof BAO Weizhu was conferred the Society for Industrial and Applied Mathematics (SIAM) Fellowship (Class of 2022).
- Prof ZHU Chengbo, joint with Prof Binyong Sun (Zhejiang University), gave an invited lecture at the International Congress of Mathematicians (ICM) online.
- Profs BAO Weizhu and TOH Kim Chuan were elected as fellow of the Singapore National Academy of Science (SNAS).



**Prof** BAO Weizhu

### 2023

- A/Prof CHEN Ying was elected as one of the eight Council Members of the International Statistical Institute for the period 2023 2027.
- A/Prof YAO Yao was one of the 12 recipients of The (inaugural) Asian Young Scientist Fellowship.
- A/Prof HUANG Hao was awarded the Frontier of Science Award in the category Combinatorics, Discrete Geometry and Graph Theory, for his paper "Induced subgraphs of hypercubes and a proof of the Sensitivity Conjecture" published in Annals of Mathematics in 2019.
- Prof SUN Yeneng and A/Prof PANG Yu-Hin, Peter were awarded the Public Administration Medal (Silver) at the National Day Awards 2023.
- NUS President Professor TAN Eng Chye was conferred Honorary Doctor of Management by Universiti Malaya.
- Prof Martin HAIRER (École Polytechnique Fédérale de Lausanne & Imperial College London Fields Medallist 2014) delivered the Oppenheim Lecture 2023

## 2024

- NUS President Professor TAN Eng Chye was honoured with the Meritorious Service Medal at the National Day Awards 2024.
- Prof GOH Say Song was awarded the Public Administration Medal (Silver) at the National Day Awards 2024.
- Prof TOH Kim Chuan was awarded the 2024 Paul Y. Tseng Memorial Lectureship in Continuous Optimization.
- Dr LI Qianxiao was awarded the President Young Scientist Award 2024.
- Prof Bin YU (Statistics, EECS, Center for Comp. Bio. and Simons Institute, UC Berkeley) delivered the Oppenheim Lecture 2024.



Dr LI Qianxiao (right), President Young Scientist Award 2024

## 2025

- Dr LEE Si Ying was awarded the Maryam Mirzakhani New Frontier Prize.
- Prof SHEN Zuowei was elected as a non-EU Fellow of the European Academy of Sciences.
- NUS President Professor TAN Eng Chye was awarded the President's Science and Technology Medal.
- Dr HAN Shaoning was awarded the INFORMS Computing Society Prize.
- A/Prof BAO Huanchen was awarded the ICCM 2025 Silver Medal.
- Prof SUN Rongfeng was selected as an Invited Speaker for ICM 2026.



Dr LEE Si Ying



**Dr HAN Shaoning**