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JING BIN PAN

PROFILE   A MSc Mathematics by Research student at the National University of Singapore. Highly motivated learner. Keen to pursue a career in research mathematics.

EDUCATION   **NATIONAL UNIVERSITY OF SINGAPORE**   **AUG 2023 – PRESENT**

- Master of Science in Mathematics (by Research)
- Currently working on nonparametric maximum-likelihood estimation in mixture models under Assistant Professor Subhroshekhar Ghosh

NATIONAL UNIVERSITY OF SINGAPORE   **AUG 2019 – MAY 2023**

- Bachelor of Science (Highest Distinction), Double Major in Mathematics and Computer Science
- Cumulative Average Point: 4.98/5.00
- Completed the Special Programme in Mathematics, which is designed for a select group of students with a strong passion and aptitude for mathematics

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RESEARCH   **RESEARCH ASSISTANT**   **JAN 2022 – PRESENT**

- Title: *Minimax-optimal Estimation for Sparse Multi-reference Alignment with Collision-free Signals (preprint on https://arxiv.org/abs/2312.07839)*
- Obtained improved bounds on the rate of estimation in the sparse multi-reference alignment model
- Supervisor: Assistant Professor Subhroshekhar Ghosh

RESEARCH IN INDUSTRIAL PROJECTS FOR STUDENTS (RIPS-SG)   **MAY 2022 – JULY 2022**

- Title: *TCGConv: Edge Representation Learning in Temporal Graphs*
- Worked in a team in collaboration with the technology company Grab to design a new deep learning framework to detect fraud in transaction networks

UNDERGRADUATE RESEARCH   **MAY 2021 – JULY 2021**

- Title: *Gauss Composition*
- Investigated the composition of binary quadratic forms and their relationship with quadratic fields
- Supervisor: Associate Professor Chin Chee Whye

AWARDS	**LEONG TENG KIANG MEMORIAL PRIZE IN MATHEMATICS**	**AY2022/2023**

LEONG TENG KIANG MEMORIAL PRIZE IN MATHEMATICS AY2022/2023

- Best student in the Pure Mathematics graduating cohort

SPECIAL PROGRAMME IN MATHEMATICS BOOK PRIZE AY2022/2023

- Best student in the Special Programme in Mathematics graduating cohort

SINGAPORE NATIONAL ACADEMY OF SCIENCE AWARD AY2022/2023

- Best student in the Mathematics graduating cohort

MEDAL OF EXCELLENCE IN MATHEMATICS AY2022/2023

- Demonstrated excellence and potential in the pursuit of mathematics

DEAN'S LIST, ALL 6 ELIGIBLE SEMESTERS

- Top 5% of the cohort each semester

OTHER SKILLS

PROGRAMMING

- Python, Java, C++