PhD in
MATHEMATICS

Overview

The Department of Mathematics at NUS has been ranked 1st among Asia Universities and top 20 worldwide in recent QS World University by Subject . The Department offers a diverse and vibrant programme in graduate studies, in fundamental and applied mathematics. Faculty members' research covers all major areas of contemporary mathematics.

The Doctor of Philosophy in Mathematics Programme is designed to provide advanced research training in mathematical sciences. Students enrolled into the programme will have the opportunity to work with prominent researchers in Pure and Applied Mathematics. They will also interact with faculty members and renowned visiting mathematicians at colloquiums and seminars and participate in overseas research attachments and conferences with financial support.

Course Structure

- Pass PhD Qualifying Examination within first 24 months;
- Pass English course offered by NUS;
- Pass a prescribed list of courses;
- Maintain minimum Grade Point Average of 3.5 (out of 5.0) ('B' grade on average);
- Complete a thesis and oral defense to the satisfaction of the examination panel;
- Complete the above requirements within 5 years (maximum candidature).

Career Opportunities

- Postdocs and faculty positions at leading universities worldwide including University of Oxford (UK); University of Wisconsin Madison, University of Maryland-College Park; University of Minnesota; (USA); CNRS, INRIA (France); University of Vienna (Austria), Tsinghua University Fudan University (China)
- Research Scientists at leading institutes worldwide such as Chinese Academy of Sciences (China); Temasek Laboratories, A*STAR institutes such as IHPC, Bioinformatics Institute (Singapore).
- Quantitative Analysts and Risk Managers at leading companies worldwide including ANZ Bank, Barclays, Credit Suisse, Deutsche Bank, DBS Bank, JP Morgan, Nomura, Standard Chartered Bank, UBS AG.

Faculty

- Prominent researchers in major research themes such as Dynamical Systems, Geometry & Topology, Mathematical Logic & Theoretical Computer Science, Representation Theory & Automorphic Forms, Imaging & Vision Science, Mathematical Finance and Mathematical Economics, Numerical Analysis & Scientific Computing, and Optimization.

PhD Scholarship

- Full tuition waiver plus monthly stipend of $3200/3700 SGD before/ after Qualifying Exam.
- There are also various fellowship opportunities with higher stipend (on a competitive basis

Admission Requirements

- Minimum 4-year Honours degree (or its equivalent) in mathematics or in a related area with strong mathematics training.
- Evaluation criteria include academic records and references, and undergraduate research experiences (if any). Admission is on a competitive basis;
- TOEFL/IELTS for foreign applicants whose native tongue or medium of instruction is not English;
- GRE (general test) for all foreign applicants. For students who have strong academic record, GRE can be waived.

TO APPLY

- Via online portal. Details available at https://nusgs.nus.edu.sg/programme/phd-mathematics/

- Deadlines: All required documents to reach us by 15 November/15 May, for admission in the August/January term of the following year .