

Tan Hong Ming

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Singaporean



Academic Qualifications

- 2015–present **Master of Science (Research) Candidate**, *Department of Mathematics*, Faculty of Science, National University of Singapore.
- M.Sc. Research candidate in the area of financial mathematics
 - M.Sc. Thesis Working Title: Investments and Information Acquisition
- 2009–2013 **Bachelor of Science(Hons)**, *National University of Singapore*, Second Class Honours, Upper Division.
- Applied Mathematics (Primary Major)
 - Economics (Second Major)
 - CAP 4.29/5
- 2005–2006 **GCE 'A' Level**, *National Junior College*.
- Mathematics C *Grade A*
 - Further Mathematics *Grade B*
 - Physics *Grade A*
 - Chemistry *Grade B*
 - General Paper *Grade B4*
 - Mathematics Special Paper *Grade Merit*

Work Experience

- 2015–present **Graduate Research Student**, *Department of Mathematics*, Faculty of Science, National University of Singapore.
- Completed Training Programme for Teaching Assistants
 - Tutor for MA1505
 - Tutor for MA1101R
- 2013–2015 **Lecturer**, *Mathematics and Statistics Division*, Temasek Polytechnic.
- Collaborated with NUS Pharmaceutical Science to create interactive webpages using HTML5 elements and Javascript
 - Co-authored two textbooks
 - Coordinated Online Student Evaluation of Teaching Effectiveness system for the School of Applied Science
 - Subject Leader for the subject "Statistics for Applied Science"
 - Completed Teaching in Higher Education Certificate
 - Completed Data Analytics in Healthcare course
 - Completed WSQ 3D Printing for Rapid Product Development course

- 2009 **Administrative Assistant**, *Office of Undergraduate Programmes*, NUS Faculty of Engineering.
- Organizing Committee of Fourteenth National Undergraduate Research Opportunities Programme 2009
 - Coordinated Industrial Attachment and Vacation Internship Programme
 - Assisted with Student Exchange Programme
- 2008 **Defensive Computer Warfare/Information Assurance Platoon Commander**, *18C4 Unit*, Singapore Armed Forces.
- Managed and oversee the integrity of SAF's computer and network security
 - Coordinated the audit of Top Secret and Secret classified documents for all SAF Joint forces

Awards

- 2015–Present **National University of Singapore**, *Department of Mathematics*, Graduate Programme in Mathematics by Research, NUS Research Scholarship.
- 2004 **Singapore Mathematical Olympiads**, *Senior Section*, *Bronze Award*.

Skill Set

C/C++

LaTeX

Mathematica

MATLAB®

Microsoft Office

English

Mandarin

Honours Thesis

- Title *APOLLONIAN CIRCLE PACKINGS AND DOYLE'S SPIRALS*
- Supervisor Professor Tan Ser Peow
- Summary This thesis presents a basic introduction to Apollonian Circle Packings and Hexagonal Circle Packings, also known as Doyle's Spirals. It shows that there is a complex extension of Doyle's rule for generating Hexagonal Circle Packings analogous to the Complex Circle Theorem for Apollonian Circle Packings. By studying the extension, coherent and virtually coherent Doyle's Spirals can be found. 2 MATLAB® programs were created to draw Apollonian Circle Packings and Doyle's Spirals. These programs are executable and are able to run on any 64-bit computer independently from MATLAB®.

Other Interests

- 2010–2011 **Captain**, *Basketball Faculty Team*, NUS Faculty of Science.
- 2009–2010 **Vice-Captain**, *Faculty Basketball Team*, NUS Faculty of Science.
- Led the team to second placing in Inter-Faculty Games