

# Tan Hong Ming

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## Research Papers

- Working Paper **Risky Investments under Static and Dynamic Information Acquisition**, *Keppo, Jussi and Tan, Hong Ming and Zhou, Chao*, <https://ssrn.com/abstract=3141043>.
- Working Paper **Evaluation of a New Antiresistic Strategy to Manage Antibiotic Resistance**.
- Working Paper **Calibrating Airline Sales Forecast in Volatile Environments: Change point Detection and Applications**, *Changchun, Liu and Hong Ming, Tan and Ek Hong, Lim and Chung-Piaw, Teo*.
- Published **A modification to Pull the Goalie that takes into account the state of play: Coach Markov returns**, *Zaman, Zia and Tan, Hong Ming*, CHANCE, 33(1), 10-15.

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## Work Experience

- 2021–Present **Lecturer**, *Department of Analytics and Operations*, NUS Business School, National University of Singapore.
- DAO1704 Decision Analytics Using Spreadsheets
    - Module Coordinator and Instructor, leading a team of four to six instructors including Professors and PhD students
    - Awarded SGD50,000 to redevelop module for Blended Learning 2.0
  - Faculty for Executive Education: Leading with Big Data Analytics and Machine Learning
  - Pioneered the Teaching Training Program for PhD students
  - Faculty for Practical Decision Making Using Data Science Online Executive Education course by Great Learning
  - Contributed Chapter to book “Designing Technology-mediated Case Learning in Higher Education - A Global Perspective”

- 2021–Present **Research Fellow**, *Institute of Operations Research and Analytics*, National University of Singapore.
- SIA-NUS Corp Lab
    - Project Manager for Transforming Competency and Skill Development (leading team of 3 PhD students and multiple Research Assistants)
  - Collaborator of SGD1,000,000 grant with Institute of Mental Health on Screening and Intervention of Depression (helps manage team of interns involved with Machine Learning)
  - Project Manager for Multiple Industry Projects with leading Global Medical Device Company (Non-Disclosure Agreement)
    - Quality Control
    - Text Analytics
    - Manages team of Research Assistants
  - NUS GRIP Venture Hothouse participant getting guidance on launching own startup as CEO
- 2020–Present **Programme Leader**, *Emeritus Institute of Management*.
- Business Analytics for Strategic Decisions
  - Python for Analytics
- 2017–2021 **PhD Candidate**, *Institute of Operations Research and Analytics*, National University of Singapore.
- Lead for Field Studies of Pilot training Project for a Major Airline Carrier
  - Lead for Demand Modeling and Price Optimization Project for a Major Airline Carrier
  - Lead for Forecasting Possible Quality Issues and Optimal Responses to the Forecasts for a Leading Global Medical Device Company
  - Instructor for DSC5101 Analytics in Managerial Economics
  - Instructor for Executive Education: Leading with Big Data Analytics and Machine Learning
  - Teaching Assistant for DSC5101 Analytics in Managerial Economics
  - Tutor for DAO1704/DSC1007 Decision Analytics Using Spreadsheets
  - Outstanding Graduate Student Teaching Award
  - MSOM 2019 Conference and SIG Meeting Local Organising Committee
  - Analytics for X Conference 2021 Local Organising Committee
- 2015–2017 **Graduate Research Student**, *Department of Mathematics*, Faculty of Science, National University of Singapore.
- Completed Training Programme for Teaching Assistants
  - Tutor for MA1505 Mathematics I
  - Tutor for MA1101R Linear Algebra I
  - Achieved top 20% of all graduate tutors in teaching performance
- 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 three 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, Lieutenant.
- 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

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## Awards

- 2019 **National University of Singapore**, *Department of Analytics and Operations*, Outstanding Graduate Student Teaching Award.
- 2017 **National University of Singapore**, *Department of Mathematics*, Graduate Programme in Mathematics by Research, Letter of Commendation for Graduate Tutor.
- 2004 **Singapore Mathematical Olympiads**, *Senior Section*, Bronze Award.

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## Academic Qualifications

- 2017–2021 **Ph.D. in Operations Research and Analytics**, *Institute of Operations Research and Analytics*, National University of Singapore.
- 2015–2017 **Master of Science by Research**, *Department of Mathematics*, Faculty of Science, National University of Singapore.
- Graduate Programme in Mathematics by Research
  - Thesis Title: Investment and the Quantity of Data Analytics
- 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