Ahmad Hakim Jamaluddin

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Education

- **2021–2025**: Ph.D. Mathematics and Statistics, UNSW Sydney, Australia (thesis submitted for examination).
- **2017–2019**: Master of Science (Statistics), Universiti Utara Malaysia (UUM), Malaysia (High Distinction).
- **2012–2016**: Bachelor of Sciences with Hons (Industrial Statistics), UUM, Malaysia (1st Class Hons, CGPA: 3.87/4.00).
- **2011–2012**: Malaysian Matriculation, Pure Sciences (Mathematics, Physics, Chemistry, Biology), CGPA: 4.00/4.00.
- **2009–2010**: Sijil Pelajaran Malaysia (SPM), Pure Sciences, Grade: 7A+, 2A.

Recent Achievements and Involvement

- Leader for education sector: AI Talents Working Group: National Artificial Intelligence Office (NAIO) 2025.
- Researcher: AI implementation at Hospital Kajang 2025.
- Mentor for UNSW Sydney team: SAS Curiosity Cup 2025.
- Mentor for UNSW Sydney team: EY Joint Actuarial Case Competition 2024.
- Organising committee member for Mathematics and Statistics UNSW Postgraduate Conference 2023.
- Session chairperson for Mathematics and Statistics UNSW Postgraduate Conference 2021, 2022, and 2023.
- One-Minute Thesis at Postgraduate Research Showcase 2023: Best for the School of Mathematics and Statistics.
- CHUBB Data Hackathon 2023 at CHUBB Insurance Australia Limited: 1st runner-up.
- Innovator Pro Artificial Intelligence Competition 2023 at UNSW Sydney: 2nd runner-up.
- Think-Tank Artificial Intelligence Policy Competition 2023 at University of Sydney: 2nd runner-up.

Awards and Scholarships

- Ph.D. Mathematics (Statistics) Scholarship Award, Ministry of Higher Education Malaysia (2021–2024).
- Perdana Fellowship, Ministry of Youth and Sports Malaysia (2021).
- Statistical Data Science Winter School Scholarship, AMSI (2021).
- Conference on Artificial Intelligence & Data-Driven Innovations (AIDDI2021) Scholarship, MSORSM (2021).
- Statistics (Data Science) Young Academic Scheme Award, Universiti Putra Malaysia (UPM) (2019).
- Chancellor Gold Medal Award, UUM (2016).
- Vice Chancellor Gold Medal Award, UUM (2016).
- Dean's List Award, UUM (2012–2016).
- Undergraduate Scholarship, Ministry of Higher Education Malaysia and UUM (2012–2016).
- Best Internship Project, "Unstructured Data Analytics for Marketing Analytics," UUM (2016).
- Best Honours Project, "Shrimp Quality Management, a Consultation Project with Arca Biru Sdn Bhd," UUM (2016).
- Excellent Service Award, UUM Student's Representative Council (2014).

Research Consulting Experience

- **Assistant Consultant at StatsCentral, UNSW Sydney (2022–2023)**: Statistical data analysis and statistical computing via R to faculty members and research students.
- **Research and Data Analysis Consultation (2016–2020)**: Provided consultation to 33 academicians and 11 postgraduate students.
- **Research Assistance Projects (2016–2022)**: 13 projects funded by international, Australian and Malaysian grants.
- **Associate Fellow at Centre for Testing, Measurement & Appraisal, UUM (2018–2019)**: Provided data analysis consultations.

Industry Experience

- **Technical Accountant**: RHB Bank, Kuala Lumpur, Malaysia (2018).
- **Equipment Integration Engineer**: Osram Opto-semiconductor (M), Penang, Malaysia (2016).

Teaching and Tutoring Experience

- **UNSW Sydney, Employability (Work Integrated Learning)**: Tutor for CDEV3000/6000: Practice of Work - Data analytics project with industry, SAS Institute (2024).
- **University of Technology Sydney, Business School**: Tutor for 24309: Marketing Research (2024).
- **Canterbury Institute of Management, School of Business**: Lecturer and tutor for BUSS101: Business Statistics (2024).
- **UNSW Sydney, School of Biomedical Sciences**: Tutor for HDA79700: Statistical foundations for health data science (2023–2024) and HDA79700: Statistical Modelling II (2022).
- **Macquarie University, School of Mathematical and Physical Sciences**: Tutor for STAT1371: Statistical data analysis (2022) and STAT2173: Introduction to probability (2022).
- **UNSW Sydney, School of Mathematics and Statistics**: Casual academic for MATH1041: Statistics for life and social sciences (2022–2024).
- **UNSW Sydney, StatsCentral**: Casual tutor for short courses: Introductory Statistics using R (2022), Introductory Statistics using SPSS (2022), and Regression Modelling using R (2022)
- **Universiti Teknologi Malaysia, Institute of Human Centered Engineering**: Instructor for Interactive Hands-On Systematic Review workshop (2020).
- **Monash University Malaysia, School of Business**: Instructor for workshops on systematic review and meta-analysis (2019–2020).
- **UPM, Faculty of Forestry**: Demonstrator for research methodology course (2019).
- **UPM, Faculty of Engineering**: Demonstrator for research methodology course (2019).

Leadership Experience

- **Perdana Fellow to the Minister at Prime Minister's Office (Economy) of Malaysia** (2021).
- **UUM Student's Representative Council** (2014).
- **President, UUM Quantitative Sciences Association** (2013).
- **President, High School Mathematics Society** (2010).
- **President, High School Teenage Cadet** (2010).

Presentation Experience

- Presenter, SupercomputingAsia (SCA) (2024).
- Presenter, Early Career & Student Statisticians Conference (ECSSC) (2024).
- Presenter, Australian Data Science Network Conference (ADSN) (2024).
- Presenter, UNSW Science Postgraduate Research Showcase (2023 and 2024).
- Presenter, Malaysia Hall Sydney Open Day (2024).
- Presenter, MathStats Postgraduate Conference (2021 and 2022).
- Presenter, AgriVoltaics 2020, Perpignan, France (14 October 2020).
- Presenter, Social Enterprise for Individuals with Autism, Kuala Lumpur, Malaysia (22 August 2019).
- TEDx Speaker, TEDxUUM, Kedah, Malaysia (13 March 2018).

Computer Skills

- **Quantitative Software**: R, Python, SQL, SAS, RapidMiner, SPSS, AMOS, SmartPLS, ADANCO, HLM, Review Manager.
- **Qualitative Software**: NVivo, QDA Miner Lite.
- **Documentation Software**: LaTeX, MS Office.

Workshops and Certifications

- Python Workshop, School of Mathematics and Statistics, UNSW Sydney (2021).
- Review Manager (Meta-Analysis), Monash University Malaysia (Clinical School) (2019).
- NVivo, StatsWork (2019).
- SmartPLS & AMOS, MPWS (2018).
- SAS (Programming, Enterprise Guide & Enterprise Miner), SAS Institute (2018, 2016).
- R, DataCamp (MDEC) (2016).

Professional Involvement

- UNSW Data Science Hub (uDASH) – Fundamental Data Science team - Core member since 2021.
- Royal Statistical Society (RSS) – Student member since 2023.
- Statistical Society of Australia (SSA) – Student member since 2022.
- Society for Industrial and Applied Mathematics (SIAM) – Student member since 2023.
- Perdana Fellow Alumni Association (PFAA) – Member since 2021.
- Malaysia Board of Technologies (MBoT) – Member since 2021.
- Institut Statistik Malaysia (ISM) – Member since 2020.
- Persatuan Matematik dan Sains Malaysia (PERSAMA) – Member since 2020.
- Management Science/Operational Research Society of Malaysia (MSORSM) – Member since 2020.

Publications

- **Jamaluddin, A. H., & Mahat, N. I. (2020)**. Validation Assessments on Resampling Method in Imbalanced Binary Classification for Linear Discriminant Analysis. *Journal of Information & Communication Technology*, 20(1), 83–102.
- **Hakim, J., & Mahat, N. I. (2019)**. The Effects of Resampling Methods on Linear Discriminant Analysis for Data Set with Two Imbalanced Groups: An Empirical Evidence. *Advances and Applications in Statistics*, 59(1), 17–42.
- **Roslan, N., et al. (2021)**. Influences of Dye-Sensitized Solar Cell (DSSC) on Light Quality, Microclimate, and Growth of Orthosiphon stamineus in Tropical Climatic Condition. *Agronomy*, 11(4), 631.
- **Othman, N. F., et al. (2020)**. Modeling of Stochastic Temperature and Heat Stress directly underneath Agrivoltaic conditions with Orthosiphon Stamineus Crops Cultivation. *Agronomy*, 10(10), 1472.
- **Jamil, N. S., Mazatusziha Ahmad, & Jamaluddin, A. H. (2021)**. Tensile Properties of Natural Fibre Reinforced Polymer Composite Foams: A Systematic Review. *Journal of Advanced Industrial Technology and Application*, 2(1), 28–35.