

Ahmad Hakiim Jamaluddin

Ph.D. in Mathematics and Statistics

UNSW Data Science Hub (uDASH) | School of Mathematics and Statistics

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Education

- **2021–2025:** Ph.D. in Mathematics and Statistics, UNSW Sydney, Australia (Nominated for the Outstanding PhD Theses Award).
- **2017–2019:** Master of Science, Statistics, Universiti Utara Malaysia (UUM), Malaysia.
- **2012–2016:** Bachelor of Science with Honours, Industrial Statistics, UUM, Malaysia (1st Class Honours, CGPA: 3.87/4.00).
- **2011–2012:** Malaysian Matriculation, Pure Sciences (Mathematics, Physics, Chemistry, Biology), CGPA: 4.00/4.00.
- **2009–2010:** Malaysian Education Certificate (SPM), Pure Sciences, Grade: 7A+, 2A.

Recent Achievements and Involvement

- **2025:** Nominated for the Outstanding PhD Theses Award, UNSW Sydney.
- **2025:** Academic Peer List, Department of Mathematics, Universitas Airlangga, Indonesia.
- **2025:** Leader, Education Sector, AI Talents Working Group, National AI Office (NAIO), Ministry of Digital Malaysia.
- **2025:** AI Associate Researcher, Hospital Kajang, Malaysia.
- **2025:** AI Associate Researcher, Malaysian Health Technology Assessment Section (MAHTAS), Ministry of Health Malaysia.
- **2025:** Mentor, UNSW Sydney team, SAS Curiosity Cup.
- **2024:** Mentor, UNSW Sydney team, EY Joint Actuarial Case Competition.
- **2023:** Organising Committee Member, Mathematics and Statistics UNSW Postgraduate Conference.
- **2021–2023:** Session Chairperson, Mathematics and Statistics UNSW Postgraduate Conference.
- **2023:** One-Minute Thesis, Postgraduate Research Showcase, Best for School of Mathematics and Statistics, UNSW Sydney.
- **2023:** CHUBB Data Hackathon, CHUBB Insurance Australia Limited, 1st Runner-Up.
- **2023:** Innovator Pro Artificial Intelligence Competition, UNSW Sydney, 2nd Runner-Up.
- **2023:** Think-Tank Artificial Intelligence Policy Competition, University of Sydney, 2nd Runner-Up.

Awards and Scholarships

- **2021–2025:** Ph.D. Mathematics and Statistics Scholarship, Ministry of Higher Education Malaysia.
- **2021:** 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.
- **2019:** Statistics (Data Science) Young Academic Scheme Award, Universiti Putra Malaysia.
- **2016:** Chancellor Gold Medal Award (Best overall undergraduate student), UUM.
- **2016:** Vice Chancellor Gold Medal Award (Best Industrial Statistics undergraduate student), UUM.
- **2016:** 1st Place, Internship Project, “Unstructured Data Analytics for Marketing Analytics,” UUM.
- **2016:** 1st Place, Final Year Project, “Shrimp Quality Management,” UUM.
- **2012–2016:** Dean’s List Award, UUM.
- **2012–2016:** Undergraduate Scholarship, Ministry of Higher Education Malaysia and UUM.
- **2014:** Excellent Service Award, UUM Student’s Representative Council.

Leadership Experience

- **National AI Office Malaysia (NAIO)** (March 2025 – June 2025)
Education Sector Lead, AI Talent Working Group, Malaysia.
- **Office of Minister, Prime Minister’s Department, Malaysia** (October 2021 – November 2021)
Perdana Fellow (Economy), Putrajaya, Malaysia.
Mentored by Ministry of Economy, YBM Dato’ Sri Mustapa bin Mohamed.
- **Universiti Utara Malaysia** (2013 – 2014)
Faculty Representative to Student’s Representative Council.
President of Quantitative Sciences Association.
- **Malaysian High School** (2010)
President of Mathematics Society.
President of School Teenage Cadet.

Professional Experience

- **Universiti Putra Malaysia** (October 2019 – Present)
Young Academic, Department of Mathematics & Statistics, Selangor, Malaysia.
- **UNSW Sydney** (March 2022 – Present)
Research Officer, School of Mathematics and Statistics (July 2025 – Present).
Casual Academic (Statistics for Social and Life Sciences), School of Mathematics and Statistics (March 2022 – Present).
Casual Academic (Health Data Science), School of Biomedical Sciences, Sydney, Australia (March 2023 – 2024).
Project Advisor (Work Integrated Learning, WIL), Collaboration with SAS Institute Australia (August 2024 – November 2024).
Assistant Consultant, StatsCentral, Mark Wainwright Analytical Centre (May 2022 – December 2022).
Casual Staff, School of Education (March 2022 – December 2022).
- **University of Technology Sydney** (July 2024 – October 2024)
Casual Academic (Marketing Research Methods), Business School, Sydney, Australia.
- **Canterbury Institute of Management** (February 2024 – June 2024)
Casual Lecturer (Business Statistics), School of Business, Sydney, Australia.
- **Macquarie University** (February 2022 – May 2022)
Casual Academic (Probability and Statistics), School of Mathematical and Physical Sciences, Sydney, Australia.
- **Monash University Malaysia** (January 2019 – January 2020)
Casual Staff (Research Methodology), School of Business, Kuala Lumpur, Malaysia.
- **Universiti Utara Malaysia** (2016 – 2019)
Associate Fellow, Centre for Testing, Measurement & Appraisal, Kedah, Malaysia.
- **RHB Banking Group** (2018)
Technical (Analytics) Accountant, Kuala Lumpur, Malaysia.
- **Osram Opto-Semiconductors (M)** (2016)
CIM Engineer, Penang, Malaysia.

Presentation Experience

- **SupercomputingAsia (SCA)**, Sydney, Australia, *Symbolic Data Analysis*, 2024.
- **Early Career & Student Statisticians Conference (ECSSC)**, Christchurch, New Zealand, *Bayesian Gaussian Mixture Models via Symbolic Data Analysis*, 2024.
- **Australian Data Science Network Conference (ADSN)**, Perth, Australia, *Optimal Designs for Univariate Histograms*, 2024.
- **UNSW Science Postgraduate Research Showcase**, Sydney, Australia, *Optimal Designs for Univariate Histograms*, 2023–2024.
- **Malaysia Hall Sydney Open Day**, Sydney, Australia, *Data Science, What, Why and How*, 2024.
- **MathStats Postgraduate Conference**, Sydney, Australia, *Symbolic Data Analysis Advances*, 2021–2022.
- **AgriVoltaics 2020**, Perpignan, France, *Machine Learning for Agrivoltaic in Malaysia*, 14 October 2020.
- **Social Enterprise for Individuals with Autism**, Malaysia, *Systematic Review of Social Entrepreneurship*, 22 August 2019.
- **TEDxUUM**, Malaysia, TEDx Speaker, *Statistics, Why and How* 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

- **Sydney Workshop on Mathematics of Data Science**, School of Mathematics and Statistics, University of Sydney, 2024.
- **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 AI Institute**, Fundamental Data Science Team, Member, 2025 – Present.
- **UNSW Data Science Hub (uDASH)**, Fundamental Data Science Team, Core Member, 2021 – Present.
- **Royal Statistical Society (RSS)**, Student Member, 2023 – Present.
- **Statistical Society of Australia (SSA)**, Student Member, 2022 – Present.
- **Society for Industrial and Applied Mathematics (SIAM)**, Student Member, 2023 – Present.
- **Perdana Fellow Alumni Association (PFAA)**, Member, 2021 – Present.
- **Malaysia Board of Technologies (MBoT)**, Member, 2021 – Present.
- **Institut Statistik Malaysia (ISM)**, Member, 2020 – Present.
- **Persatuan Matematik dan Sains Malaysia (PERSAMA)**, Member, 2020 – Present.
- **Management Science/Operational Research Society of Malaysia (MSORSM)**, Member, 2020 – Present.

Publications

Artificial Intelligence

- **Jamaluddin, A. H.**, Jamaluddin, F., Jamaluddin, F., & Jamaluddin, F. (2025). Malaysia's AI-driven education landscape: Policies, applications, and comparative insights for a digital future. *STEM Education*. Manuscript submitted for publication.

Statistics

- **Jamaluddin, A. H.**, & Mahat, N. I. (2020). Validation assessments on resampling method in imbalanced binary classification for linear discriminant analysis. *Journal of Information and Communication Technology*, 20(1), 83–102.
- **Jamaluddin, A. H.**, & 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.

Applied Statistics

- Othman, N. F., Ya'acob, M. E., Lu, L., **Jamaluddin, A. H.**, Mat Su, A. S., Hizam, H., Shamsudin, R., & Jaafar, J. N. (2023). Advancement in agriculture approaches with agrivoltaics natural cooling in large scale solar PV farms. *Agriculture*, 13(4), 854.
- Anuar, N., **Jamaluddin, A. H.**, & Abu, A. Y. (2023). Imagery as alternative therapy of depression: A systematic literature review (SLR). *Journal for ReAttach Therapy and Developmental Diversities*, 6(9s2), 105–112.
- Roslan, N., Ya'acob, M. E., Jamaluddin, D., Hashimoto, Y., Othman, M. H., Iskandar, A. N., Ariffin, M. R., Ibrahim, M. H., Mailan, J., **Jamaluddin, A. H.**, Mail, M. F., Aliah, B. S. N., & Lu, L. (2021). Dye-sensitized solar cell (DSSC): Effects on light quality, microclimate, and growth of *Orthosiphon stamineus* in tropical climatic condition. *Agronomy*, 11(4), 631. <https://doi.org/10.3390/agronomy11040631>
- Othman, N. F., Ya'acob, M. E., Mat Su, A. S., Jaafar, J. N., Hizam, H., Shahidan, M. F., **Jamaluddin, A. H.**, Chen, G., & Jalaludin, A. (2020). Modeling of stochastic temperature and heat stress directly underneath agrivoltaic conditions with *Orthosiphon stamineus* crop cultivation. *Agronomy*, 10(10), 1472. <https://doi.org/10.3390/agronomy10101472>
- Jamil, N. S., Ahmad, M., & **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.

Systematic Review

- Anuar, N., **Jamaluddin, A. H.**, & Abu, A. Y. (2023). Imagery as alternative therapy of depression: A systematic literature review (SLR). *Journal for ReAttach Therapy and Developmental Diversities*, 6(9s2), 105–112.
- Jamil, N. S., Ahmad, M., & **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.