Ahmad Hakiim Jamaluddin (Ph.D)

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Education

- **2021–2025**: Ph.D. in Mathematics and Statistics, UNSW Sydney, Australia.
- **2017–2019**: M.Sc. Statistics, Universiti Utara Malaysia (UUM), Malaysia.
- **2012–2016**: B.Sc. (Honours) Industrial Statistics, UUM, Malaysia (1st Class, 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**: The Best Presenter Award at the 7th ISM International Statistical Conference in Malaysia.
- **2025**: AI Associate Researcher, Hospital Dalat, Malaysia.
- **2025**: Invited speaker, pre-conference workshop on AI for healthcare at National Health Technology Assessment (NHTA) Conference, organised by Malaysian Health Technology Assessment Section (MaHTAS), Ministry of Health Malaysia.
- **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**: Mentor, UNSW Sydney team, SAS Curiosity Cup and 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 (Majlis Perwakilan Pelajar).
  President of Quantitative Sciences Association.

- **Malaysian High School** (2010)
  President of Mathematics Society.
  President of School Teenage Cadet.

Professional Experience

- **Universiti Putra Malaysia** (October 2025 – Present)
  Senior Lecturer in Statistics and Data Science, Department of Mathematics & Statistics, Selangor, Malaysia.
- **Universiti Putra Malaysia** (October 2019 – September 2025)
  Young Academic Scheme, 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, F., **Jamaluddin, A. H.**, Jamaluddin, F., & Jamaluddin, F. (2025). Malaysia's AI-driven education landscape: Policies, applications, and comparative insights for a digital future. *Discover Computing*. Under review.

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.
- 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

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.