Ahmad Hakiim Jamaluddin
Ph.D. Mathematics and Statistics candidate (UNSW Sydney)

1.0 EDUCATION

| 2021 - 2025 | **UNSW Sydney**, Australia | : *Ongoing* |

2021 - 2025 **UNSW Sydney**, Australia : *Ongoing*
Ph.D. Mathematics and Statistics at UNSW Data Science Hub (uDASH)
2017 - 2019 **Universiti Utara Malaysia (UUM)**, Malaysia
Master of Science (Statistics)
Grade : *High distinction*
2012 - 2016 **Universiti Utara Malaysia (UUM)**, Malaysia
Bachelor of Sciences (Applied Statistics) (Honours Class 1)
CGPA : *3.87/4.00*
2011 - 2012 **Malaysian Matriculation**
Pure Sciences Module 1 (Mathematics, Physics, Chemistry, Biology)
CGPA : *4.00/4.00*
2009 - 2010 **Sijil Pelajaran Malaysia (SPM)**
Pure Sciences
Grade : *7A+, 2A*

2.0 RECENT ACHIEVEMENTS AND INVOLVEMENT

2.1 Organising committee member for Mathematics and Statistics UNSW Postgraduate Conference 2023
2.2 Session chairperson for Mathematics and Statistics UNSW Postgraduate Conference 2021, 2022 and 2023
2.3 One-Minute Thesis at Postgraduate Research Showcase 2023: The best for the School of Mathematics and Statistics
2.4 CHUBB Data Hackathon 2023 at CHUBB Insurance Australia Limited: 1st runner up
2.5 Innovator Pro Artificial Intelligence Competition 2023 at UNSW Sydney: 2nd runner up
2.6 Think-Tank Artificial Intelligence Policy Competition 2023 at University of Sydney: 2nd runner up

3.0 AWARDS AND SCHOLARSHIPS

3.1 Ph.D. Statistics (Data Science) scholarship award at UNSW Sydney: Ministry of Higher Education Malaysia (*2021-present*)
3.2 Statistics (Data Science) young academic scheme award: Universiti Putra Malaysia (UPM) (*2021-present*)
3.3 Development and research training grant for a statistical data science conference Bayes on the Beach: UNSW Sydney (*2024*)
3.4 Statistical data science winter school scholarship: Australian Mathematical Sciences Institute (AMSI) (*2021*)
3.5 Conference on artificial intelligence & data-driven innovations (AIDDI2021) scholarship: MSORSM (*2021*)
3.6 Chancellor gold medal award for bachelor's degree: UUM (*2016*)
3.7 Vice chancellor gold medal award for bachelor's degree: UUM (*2016*)
3.8 Dean's list award for bachelor's degree: UUM (*2012-2016*)
3.9 Undergraduate scholarship: Ministry of Higher Education Malaysia and UUM (*2012-2016*)
3.10 The best internship project, 'Unstructured data analytics for marketing analytics": UUM (*2016*)
3.11 The best honours project, 'Shrimp quality management, a consultation project with Arca Biru Sdn Bhd': UUM (*2016*)
3.12 Excellent service award: UUM student's representative council (*2014*)

4.0 TEACHING AND TUTORING

4.1 UNSW Sydney, Employability (Work Integrated Learning): Tutor for
- CDEV3000/6000: Practice of Work - Data analytics project with industry, SAS Institute (*2024*)
4.2 University of Technology Sydney, Business School: Tutor for
- 24309: Marketing Research (*2024*)
4.3 Canterbury Institute of Management, School of Business: Lecturer and tutor for
- BUSS101: Business Statistics (*2024*)
4.4 UNSW Sydney, School of Biomedical Sciences: Tutor for
- HDAT9200: Statistical foundations for health data science (*2023 - 2024*)
- HDAT9700: Statistical Modelling II (*2022*)
4.5 Macquarie University, School of Mathematical and Physical Sciences: Tutor for
- STAT1371: Statistical data analysis (*2022*)
- STAT2173: Introduction to probability (*2022*)
4.6 UNSW Sydney, School of Mathematic and Statistics: Casual academic for
- MATH1041: Statistics for life and social sciences (*2022 - 2024*)
4.7 UNSW Sydney, StatsCentral: Assistant consultant and tutor for short courses
- Introductory Statistics using R (*2022*)
- Introductory Statistics using SPSS (*2022*)
- Regression Modelling using R (*2022*)
4.8 Monash University Malaysia, School of Business: Instructor for workshops on systematic review and meta-analysis (*2019-2020*)
4.9 UPM, Faculty of Forestry: Demonstrator (research methodology course) (*2019*)
4.10 UPM, Faculty of Engineering: Demonstrator (research methodology course) (*2019*)

5.0 INDUSTRY EXPERIENCE

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

6.0 LEADERSHIP EXPERIENCE
6.1 Perdana Fellow to the Minister at Prime Minister's Office (Economy) of Malaysia (*2021*)
6.2 UUM Student's Representative Council (*2014*)
6.3 President, UUM Quantitative Sciences Association (*2013*)
6.4 President, High School Mathematics Society (*2010*)
6.5 President, High School School Teenage Cadet (*2010*)

7.0 RELEVANT EXPERIENCE
7.1 Presenter, UNSW Science Postgraduate Research Showcase (*2023 and 2024*)
7.2 Presenter, MathStats Postgraduate Conference (*2021 and 2022*)
7.3 Presenter, AgriVoltaics 2020, Perpignan, France (*14 October 2020*)
7.4 Presenter, Social Enterprise for Individuals with Autism, Kuala Lumpur, Malaysia (*22 August 2019*)
7.5 TEDx Speaker, TEDxUUM, Kedah, Malaysia (*13 March 2018*)

8.0 COMPUTER SKILLS
8.1 Quantitative software: R, Python, SQL, SAS, RapidMiner, SPSS, AMOS, SmartPLS, ADANCO, HLM, Review Manager
8.2 Qualitative software: NVivo, QDA Miner Lite
8.3 Documentation software: Latex, MS Office

9.0 WORKSHOP AND CERTIFICATION
9.1 Review Manager (Meta-Analysis), Monash University Malaysia (Clinical School), (*2019*)
9.2 NVivo, StatsWork, (*2019*)
9.3 SmartPLS & AMOS, MPWS, (*2018*)
9.4 SAS (Programming, Enterprise Guide & Enterprise Miner), SAS Institute, (*2018, 2016*)
9.5 R, DataCamp (MDEC), (*2016*)

10.0 PROFESSIONAL INVOLVEMENT
10.1 UNSW Data Science Hub (uDASH) – Core member since 2021
10.2 Royal Statistical Society (RSS) – Student member since 2023
10.3 Statistical Society of Australia (SSA) – Student member since 2022
10.4 Society for Industrial and Applied Mathematics (SIAM) – Student member since 2023
10.5 Perdana Fellow Alumni Association (PFAA) – Member since 2021
10.6 Malaysia Board of Technologists (MBoT) – Member since 2021
10.7 Institut Statistik Malaysia (Malaysian Institute of Statistics) (ISM) – Member since 2020
10.8 Persatuan Matematik dan Sains Malaysia (Malaysian Mathematics and Sciences Association) (PERSAMA) – Member since 2020
10.9 Management Science/ Operational Research Society of Malaysia (MSORSM) – Member since 2020

11.0 SOME PUBLICATIONS
11.1 **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. **WoS (ESCI) & Scopus Q2**

11.2 **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. **WoS (ESCI)**

11.3 Anuar, N., **Jamaluddin, A. H.,** Bakar, A. Y. A., Saleem, M., Ekawati, F. F. (2023). Imagery as Alternative Therapy of Depression: A Systematic Literature Review (SLR). *Journal for ReAttach Therapy and Developmental Diversities*, 6 (9s (2)), 105-112. **Scopus Q4**

11.4 Roslan, N., Ya'acob, M.E., Jamaludin, D., Hashimoto, Y., Othman, CM H, Noor Iskandar, A., Ariffin, M. R., Ibrahim, M. H., Mailan, J., **Jamaluddin, A. H.** (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. **WoS (SCIE Q1) & Scopus Q1**

11.5 Othman, N. F., Ya'acob, M. E., Lu, L., **Jamaluddin, A. H.**, Su, A. S. M., 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. **WoS (SCIE Q1) & Scopus Q1**

11.6 Othman, N. F., Ya'acob, M. E., Su, A. S. M., Jaafar, J. N., Hizam, Shahidan, M. F., **Jamaluddin, A. H.**, Chen, ., Jalaludin, A. (2020). Modeling of Stochastic Temperature and Heat Stress directly underneath Agrivoltaic conditions with Orthosiphon Stamineus Crops Cultivation. *Agronomy*, 10(10), 1472. **WoS (SCIE Q1) & Scopus Q1**

11.7 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.