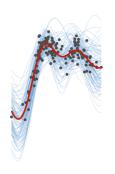
Haziq Jamil



View this CV online at haziqj.ml/cv

2014 — 2018

I am an Assistant Professor in Statistics at Universiti Brunei Darussalam (UBD). My expertise lie in statistical methodology and computation, with applications towards the natural and social sciences.

I am passionate about bringing data and technology to the forefront of our daily interaction with the world. Using the R programming language, I build statistical models for data analysis in order to gain insights, make predictions, and aid decision-making. I am frequently engaged in cross-disciplinary research collaborations and statistical consultations.

Research Interests

Latent variable models	Composite likelihood methods
Binary and multinomial probit models	Spatio-temporal models
Hedonic pricing models	Bayesian estimation
Gaussian processes	

Education

	Supervisors: Wicher Bergsma1 and Irini Moustaki2 Thesis: Regression modelling using priors depending on Fisher information	
	Thesis: Regression modelling using priors depending on Fisher information covariance kernels (I-priors)3	
2013 — 2014	MSc in Statistics (distinction), London School of Economics and Political Science	

PhD in Statistics, London School of Economics and Political Science

2006 — 2010 BSc & Master in Mathematics, Operational Research, Statistics and Economics (first class honours), University of Warwick

Supervisor: David Firth4

Dissertation: The analysis of paired comparison data using Bradley-Terry models with applications to football data

Awards & honours

2023	Teaching Excellence Award in the Sciences, Universiti Brunei Darussalam
2020	Arnold Zellner Thesis Award in Econometrics and Statistics (honourable mention) ⁵ , American Statistical Association (Business and Economic Statistics Section)
2013 — 2018	In-Service Training Scheme Scholarship , Public Service Commission, Prime Minister's Office, Brunei
2006 — 2010	Supreme Commander of The Royal Brunei Armed Forces Scholarship 6, Ministry of Defence, Brunei

Employment

2024 — 2027 Visiting Fellow

Department of Statistics, London School of Economics and Political Science? The School's Visiting Appointments Scheme is a device to help Departments, Institutes and Centres invite staff who are either practitioners or academics in other institutions to conduct research and other activities.

Mathematical Sciences, Faculty of Science, *Universiti Brunei Darussalam*8 I teach SM-1402 Basic Statistics, SM-2302 Software for Mathematicians, SM-4331 Advanced Statistics, SM-4335 Advanced Probability, and CU-0304 Sciences for University Study. I also supervise mathematics students' final year projects. In addition to my teaching duties, I am the current Postgraduate Coordinator (Mathematics). I previously held the post of Discovery Year9 advisor (2019-2021).

2014 — 2018 Graduate Teaching Assistant

Department of Statistics, London School of Economics and Political Science 10 I held various teaching roles ranging from secondary teaching to marking for masters (ST416 Multilevel Modelling, ST421 Development in Statistical Methods) and undergraduate level courses (ST312 Applied Statistics Project) at the LSE. In addition, I also held assistant invigilator and examiner roles for both the LSE and the University of London International Examinations respectively.

2010 — 2014 **Research Officer** 2018 — 2019 **Centre for Science**

Centre for Science and Technology, Research and Development (CSTRAD), Ministry of Defence, Brunei 11

I provided analytical insight into matters arising from strategic procurement activities of the Royal Brunei Armed Forces (RBAF). This entailed market research, cost-benefit analyses, and writing technical reports. I was a core team member for the procurement and delivery of 12 Sikorsky S-70i helicopters 12 (US\$325M), and also the focal point for the development of tender evaluation criteria using the Analytic Hierarchy Process.

Service

2024 — present Chair

Brunei R User Group 13

2020 — present Ad-hoc Reviewer

Annals of Applied Statistics 14; Journal of the Royal Statistical Society: Series C15

2020 — present Review Editor

Frontiers in Applied Mathematics and Statistics 16

2020 Guest Lecturer

Universiti Teknologi Brunei 17

2014 — 2015 MSc Programme Facebook Administrator

Department of Statistics, London School of Economics and Political Science Acted as student liaison for incoming cohort of MSc Statistics 2015/16.

2013 — 2015 Auditor

Brunei Down's Syndrome Association (ABLE)18

Consultancy

2017 —	– 2018	Data Analyst Universiti Brunei Darussalam Project: The unmet needs of cancer carers in Brunei Darussalam.
2021 —	- 2022	Statistical Modelling Ministry of Defence, Brunei Project: Human performance optimisation
		Grants and funding
2021 —	- 2024	Extension of I-prior methodology to nominal response models (~BND 7,000), Faculty of Science Research Grant, <i>Universiti Brunei Darussalam</i> . Role: <i>Principal Investigator</i>
2021 —	- 2023	Examining spillover effects in regional trading blocs (~BND 17,000), School of Business and Economics Research Grant, <i>Universiti Brunei Darussalam</i> . Role: <i>Member</i>
2021 —	- 2024	Mathematical Modeling of Genetic Assimilation (~BND 8,000), Faculty of Science Research Grant, <i>Universiti Brunei Darussalam</i> . Role: Co-Principal Investigator
2023 —	- 2024	Predictive potential of graphical descriptors for QSPR/QSAR model learning of compounds (~BND 15,700), Faculty of Science Research Grant, <i>Universiti Brunei Darussalam</i> . Role: Co-Principal Investigator
2024		R User Groups (RUGS) Program Grants (USD 500), R Consortium 19
		Research output
		Articles (peer-reviewed)
2024	A12	An Optimization Problem for Computing Predictive Potential of General Sum/Product-Connectivity Topological Indices of Physicochemical Properties of Benzenoid Hydrocarbons S. Hayat, A. Arfan, A. Khan, H. Jamil, a. Mohammed J. F. Alenazi. Axioms 13(6). DOI: 10.3390/axioms13060342
2023	A11	Importance of Baseline Assessments: Monitoring of Sungai Brunei River's Water Quality O. Onifade, N. Shamsuddin, H. Jamil, D. T. C. Lai, S. Gödeke H2Open Journal, 6(4) 518–534. DOI: 10.2166/h2oj.2023.168
	A10	Extremal hyper-Zagreb index of trees of given segments with applications to regression modeling in QSPR studies S. Hayat, M. Adil Khan, A. Khan, <i>H. Jamil</i> , M. Yasir Hayat Malik Alexandria Engineering Journal, 80(1) pp.259–268
	A09	Statistical significance of valency-based topological descriptors for correlating thermodynamic properties of benzenoid hydrocarbons with applications S. Hayat, N. Suhaili, <i>H. Jamil</i> Computational and Theoretical Chemistry, 114259. DOI: 10.1016/j.comptc.2023.114259

	A08	The domination number of the king's graph M. Arshad, S. Hayat, <i>H. Jamil</i> Computational and Applied Mathematics, 42(251). DOI: 10.1007/s40314-023-02386-8
2022	A07	Factors Affecting Readmission to a Drug Rehabilitation Centre F. Jali, E. Leong, <i>H. Jamil</i> Journal of Population and Social Studies, 30, 591-601.
	A06	Iron and Manganese Mobilisation due to Dam Height Increase for a Tropical Reservoir in South East Asia S. Gödeke, H. Jamil, M. Schirmer, A. Bretzler, N. Shamsuddin, N. H. Mansor Environmental Monitoring and Assessment, 194(5), 358.
	A05	Pairwise likelihood estimation for confirmatory factor analysis models with categorical variables and data that are missing at random M. Katsikatsou, I. Moustaki, H. Jamil British Journal of Mathematical and Statistical Psychology, 75(2) 23-45. Wiley Top Downloaded Article 2021
2021	A04	Advocating Blended Learning for University Undergraduate Level Mathematical Instruction Beyond Covid-19 H. Jamil, H. M. Ramli, E. Leong In: Engineering and Sciences Teaching and Learning Activities: New Systems Throughout COVID-19 Pandemics, pp. 33-45. Ed. by Samsul Ariffin Abdul Karim and Saiful Azmi Hussain. Studies in Systems, Decision and Control, vol 381. Cham: Springer. ISBN: 978-3-030-79613-6.
	A03	Latent Class Analysis: Insights about design and analysis of schistosomiasis diagnostic studies A. Koukounari, <i>H. Jamil</i> , E. Erosheva, C. Shiff, I. Moustaki PLOS Neglected Tropical Diseases, 15(2), e0009042.
2020	A02	Bayesian Variable Selection for Linear Models Using I-Priors H. Jamil, W. Bergsma In: Theoretical, Modelling and Numerical Simulations Toward Industry 4.0, pp. 107–132. Ed. by Samsul Ariffin Abdul Karim. Studies in Systems, Decision and Control, vol 319. Singapore: Springer. ISBN: 978-981-15-8986-7.
2018	A01	Regression modelling using priors depending on Fisher information covariance kernels (I-priors) H. Jamil PhD Thesis. London School of Economics and Political Science. Arnold Zellner award, honourable mention (top 3)
		Working papers (preprints and unpublished reports)
2024	W12	Leveraging sparse Gaussian processes for property price modelling and sustainable urban planning H. Jamil, F. Usop, H. M. Ramli Manuscript in submission
	W11	A spatio-temporal analysis of house prices in Brunei Darussalam H. Jamil Manuscript in submission

2023	W10	Pairwise likelihood estimation and limited information goodness-of-fit test statistics for binary factor analysis models under complex survey sampling H. Jamil, I. Moustaki, C. Skinner arXiv:2311.02543 [stat.ME]
	W09	Additive interaction modelling using I-priors W. Bergsma, H. Jamil arXiv:2007.15766 [math.ST]
	W07	An Exploratory Investigation on Foreign Language Anxiety among English for Islamic Studies Learners in Brunei Darussalam N. Noorashid, H. Jamil Manuscript in submission
	W08	Patterns of metabolic thermal independence in marine gastropods: A meta- analytical assessment M. Akram Ullah, D. Marshall, <i>H. Jamil</i> Manuscript in preparation
2021	W06	I think I understand: Investigating misconceptions regarding hypothesis test concepts among university students A. Zaini, H. Jamil, E. Leong EdArXiv. DOI: 10.35542/osf.io/dj6x9
2020	W05	Regression modelling with I-priors: With applications to functional, multilevel and longitudinal data W. Bergsma, <i>H. Jamil</i> arXiv:2007.15766 [math, stat].
	W04	Investigating the effect of load carriage on soldiers' performances using Bayesian structural equation models H. Jamil, A. Salleh, L. Thieng Chan
2019	W03	iprior: An R Package for Regression Modelling using I-priors H. Jamil, W. Bergsma arXiv:1912.01376 [stat].
2017	W02	Discussion contribution W. Bergsma, <i>H. Jamil</i> TI Cannings, RJ Samworth (2017). Random-projection ensemble classification. JRSSB, 79.4, pp. 959-1035.
2010	W01	Analysis of paired comparison data using Bradley-Terry models with applications to football data H. Jamil Masters Thesis. University of Warwick.
		Software
2021	S4	R/iprior: Regression Modelling using I-priors H. Jamil CRAN 0.7.4 downloads 37K
2020	S3	stat-tables: Open-source statistical tables for use in examinations, tests, and assignments H. Jamil release v0.2 downloads 953

2018	52	H. Jamil release v0.1.1
	S1	R/iprobit: Binary and Multinomial Probit Regression with I-priors H. Jamil release v0.1
		Talks
		Further information regarding the following events are available at haziqj.ml/talk
2024	T22	Adolphe Quetelet Seminar Series, Ghent University Weighted pairwise likelihood and limited information goodness-of-fit tests for binary factor models
	T21	Brunei R User Group Meetup , UBD Startup Centre Analysing spatial data using R
2023	T20	Social Statistics Seminar , LSE, London, UK Spatio-temporal modelling of property prices in Brunei Darussalam
	T19	Mathematical Science Departmental Seminar, UBD, Brunei Pairwise likelihood goodness of fit tests for binary factor models
	T18	International Meeting of the Psychometric Society (IMPS), University of Maryland, USA Pairwise likelihood goodness of fit tests for binary factor models
2022	T17	Teaching and Learning Centre Workshop , UBD, Brunei Quality Typography in Teaching Material: An interactive introduction to LaTeX
	T16	Department of Statistics and Data Science Seminar , NUS, Singapore Regression modelling using I-priors
	T15	International Meeting of the Psychometric Society (IMPS), University of Bologna, Italy Selecting interaction effects in additive models using I-priors
2021	T14	MINDEF Scholars Sharing Session, Online Life After MINDEF
2020	T13	IADA Seminar, UBD, Brunei A latent variable model for maximal performance testing with dropouts for military applications
	T12	Social Statistics Group Meetings, LSE, London, UK Investigating the effect of load carriage on soldiers' performances using structural equation models
2019	T11	UBDSBE Seminar Invitation, UBD, Brunei Bayesian Variable Selection for Linear Models
	T10	CSTRAD Sharing Session , Ministry of Defence, Brunei Misconceptions in Demography
2018	T09	FOS Research Seminar, UBD, Brunei A Brief Guide to Variational Inference

	T08	Inaugural Workshop on Data Science Theory and Practice , LSE, London, UK Binary and Multinomial Regression using Fisher Information Covariance Kernels (I-priors)
	Т07	Social Statistics Group Meetings, LSE, London, UK A Beginner's Guide to Variational Inference
2017	T06	Turing Data Study Group , The Alan Turing Institute, London, UK Can data science help identify potential drivers of extremism?
	T05	International Meeting of the Psychometric Society (IMPS), University of Zürich, Switzerland Regression Modelling with I-Priors
	T04	Department of Statistics PhD Presentation Event , LSE, London, UK Binary probit regression with I-priors
2016	Т03	Social Statistics Group Meetings , LSE, London, UK I-priors in Bayesian Variable Selection: From Reproducing Kernel Hilbert Spaces to Hamiltonian Monte Carlo
2015	T02	Postgraduate Research Seminar, LSE, London, UK Two-stage Bayesian variable selection for linear models using I-priors
	T01	Department of Statistics PhD Presentation Event , LSE, London, UK Regression Modelling using I-priors

Skills

- Programming, data analysis and visualisation using R, BUGS/JAGS, Stan, Stata, Mplus, and Mathematica
- A Reproducible research using Quarto, R Markdown, LaTeX, Git and AWS EC2
- Web development using HTML, CSS, Hugo, GitHub Pages and Netlify

Made with the R package pagedown. The source code is available from github.com/haziqj/cv. Document last rendered on 2024-06-04 14:52:49.054891 [Asia/Brunei].

Links

- 1. http://stats.lse.ac.uk/bergsma/←
- 2. http://stats.lse.ac.uk/moustaki/←
- 3. https://phd.haziqj.ml/
- 4. http://www2.warwick.ac.uk/fac/sci/statistics/staff/academic-research/firth/←
- 5. https://community.amstat.org/businessandeconomicstatisticssection/new-item/new-item/
- 6. https://scholarship.mindef.gov.bn/Theme/Home.aspx↔
- 7. http://lse.ac.uk/Statistics/ ←

- 8. http://fos.ubd.edu.bn/←
- 9. https://ubdmaths.github.io/dy/←
- 10. http://lse.ac.uk/Statistics/ ←
- 11. https://www2.mindef.gov.bn/cstrad/ ←
- 12. https://news.lockheedmartin.com/2011-12-13-Sikorsky-Signs-with-Brunei-Ministry-of-Defence-for-Sale-of-S-70iTM-BLACK-HAWK-Helicopters
- 13. https://bruneir.github.io ←
- 14. https://imstat.org/journals-and-publications/annals-of-applied-statistics/https://imstat.org/journals-and-publications/annals-of-applied-statistics/https://imstat.org/journals-and-publications/annals-of-applied-statistics/ https://imstat.org/journals-and-publications/annals-of-applied-statistics/ https://imstat.org/journals-and-publications/annals-of-applied-statistics/ https://imstat.org/journals-and-publications/annals-and-publicatio
- 15. https://rss.onlinelibrary.wiley.com/journal/14679876 ←
- 16. https://www.frontiersin.org/journals/applied-mathematics-and-statistics/https://www.frontiersin.org/journals/applied-mathematics-and-statistics/ https://www.frontiersin.org/journals/applied-mathematics-and-statistics/ https://www.frontiersin.org/journals/applied-mathematics-and-statistics/ https://www.frontiersin.org/journals/applied-mathematics-and-statistics/ https://www.frontiersin.org/journals/applied-mathematics-and-statistics/ https://www.frontiersin.org/ <a hre
- 17. http://www.utb.edu.bn/
- 18. https://www.instagram.com/ablebrunei/ ←
- 19. https://www.r-consortium.org/all-projects/r-user-group-support-program →