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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	Structural equation models
Binary and multinomial probit models	Truncated normal distribution
Bayesian estimation	EM algorithms
Variational inference	

## Education

2014 — 2018	<b>PhD in Statistics</b> , London School of Economics and Political Science Supervisors: Wicher Bergsma <sup>1</sup> and Irini Moustaki <sup>2</sup> Thesis: <i>Regression modelling using priors depending on Fisher information covariance kernels (I-priors)</i> <sup>3</sup>
2013 — 2014	<b>MSc in Statistics (distinction)</b> , London School of Economics and Political Science
2006 — 2010	<b>BSc &amp; Master in Mathematics, Operational Research, Statistics and Economics (first class honours)</b> , University of Warwick Supervisor: David Firth <sup>4</sup> Dissertation: <i>The analysis of paired comparison data using Bradley-Terry models with applications to football data</i>

## Awards & honours

2020	<b>Arnold Zellner Thesis Award in Econometrics and Statistics (honourable mention)</b> <sup>5</sup> , American Statistical Association (Business and Economic Statistics Section)
2013 — 2018	<b>In-Service Training Scheme Scholarship</b> , Public Service Commission, Prime Minister's Office, Brunei
2006 — 2010	<b>Supreme Commander of The Royal Brunei Armed Forces Scholarship</b> <sup>6</sup> , Ministry of Defence, Brunei
2006	<b>Anugerah Penuntut Terbaik Tahun 2005 (Best Student Award 2005)</b> , Persatuan Guru-Guru Melayu Brunei (PGGMB)

## Employment

2019 — present

### **Assistant Professor in Statistics**

Mathematical Sciences, Faculty of Science, *Universiti Brunei Darussalam*<sup>7</sup>

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 Year<sup>8</sup> advisor (2019-2021).

2014 — 2018

### **Graduate Teaching Assistant**

Department of Statistics, London School of Economics and Political Science<sup>9</sup>

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 — 2019

### **Research Officer**

Centre for Science and Technology, Research and Development (CSTRAD), Ministry of Defence, Brunei<sup>10</sup>

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<sup>11</sup> (US\$325M), and also the focal point for the development of tender evaluation criteria using the Analytic Hierarchy Process.

## Service

2020 — present

### **Ad-hoc Reviewer**

Annals of Applied Statistics<sup>12</sup>; Journal of the Royal Statistical Society: Series C<sup>13</sup>

2020 — present

### **Review Editor**

Frontiers in Applied Mathematics and Statistics<sup>14</sup>

2020

### **Guest Lecturer**

Universiti Teknologi Brunei<sup>15</sup>

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)<sup>16</sup>

## Consultancy

2017 — 2018

### **Data Analyst and Consultant**

Universiti Brunei Darussalam

Project: The unmet needs of cancer carers in Brunei Darussalam.

## Grants and funding

- 2021 — 2024     **Extension of I-prior methodology to nominal response models** (~BND 7,000), Faculty of Science Research Grant, *Universiti Brunei Darussalam*.  
Role: *Principal Investigator*
- 2021 — 2023     **Examining spillover effects in regional trading blocs** (~BND 17,000), School of Business and Economics Research Grant, *Universiti Brunei Darussalam*.  
Role: *Member*
- 2021 — 2024     **Mathematical Modeling of Genetic Assimilation** (~BND 8,000), Faculty of Science Research Grant, *Universiti Brunei Darussalam*.  
Role: *Co-Principal Investigator*

## Research output

### Articles (peer-reviewed)

- 2022     A7     **Factors Affecting Readmission to a Drug Rehabilitation Centre**  
F. Jali, E. Leong, H. Jamil  
Journal of Population and Social Studies. *To appear*.
- A6     **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.
- A5     **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.
- 2021     A4     **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.
- A3     **Latent Class Analysis: Insights about design and analysis of schistosomiasis diagnostic studies**  
A. Koukounari, H. Jamil, E. Erosheva, C. Shiff, I. Moustaki  
PLOS Neglected Tropical Diseases, 15(2), e0009042.
- 2020     A2     **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     A1     **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)

2021	W6	<b>I think I understand: Investigating misconceptions regarding hypothesis test concepts among university students</b> A. Zaini, H. Jamil, E. Leong EdArXiv. DOI: 10.35542/osf.io/dj6x9
2020	W5	<b>Regression modelling with I-priors: With applications to functional, multilevel and longitudinal data</b> W. Bergsma, H. Jamil arXiv:2007.15766 [math, stat].
	W4	<b>Investigating the effect of load carriage on soldiers' performances using Bayesian structural equation models</b> H. Jamil, A. Salleh, L. Thieng Chan
2019	W3	<b>iprior: An R Package for Regression Modelling using I-priors</b> H. Jamil, W. Bergsma arXiv:1912.01376 [stat].
2017	W2	<b>Discussion contribution</b> W. Bergsma, H. Jamil TI Cannings, RJ Samworth (2017). Random-projection ensemble classification. JRSSB, 79.4, pp. 959-1035.
2010	W1	<b>Analysis of paired comparison data using Bradley-Terry models with applications to football data</b> H. Jamil Masters Thesis. University of Warwick.

## Software

2021	S4	<b>R/iprior: Regression Modelling using I-priors</b> H. Jamil CRAN 0.7.3 downloads 32K
2020	S3	<b>stat-tables: Open-source statistical tables for use in examinations, tests, and assignments</b> H. Jamil release v0.2 downloads 398
2018	S2	<b>R/ipriorBVS: Bayesian Variable Selection using I-priors</b> H. Jamil release v0.1.1
	S1	<b>R/iprobit: Binary and Multinomial Probit Regression with I-priors</b> H. Jamil release v0.1

## Talks

*Further information regarding the following events are available at [haziqj.ml/talk](http://haziqj.ml/talk)*

2022	T15	<b>International Meeting of the Psychometric Society (IMPS)</b> , University of Bologna, Italy Selecting interaction effects in additive models using I-priors
2021	T14	<b>MINDEF Scholars Sharing Session</b> , Online Life After MINDEF
2020	T13	<b>IADA Seminar</b> , UBD, Brunei A latent variable model for maximal performance testing with dropouts for military applications
	T12	<b>Social Statistics Group Meetings</b> , LSE, London, UK Investigating the effect of load carriage on soldiers' performances using structural equation models
2019	T11	<b>UBDSBE Seminar Invitation</b> , UBD, Brunei Bayesian Variable Selection for Linear Models
	T10	<b>CSTRAD Sharing Session</b> , Ministry of Defence, Brunei Misconceptions in Demography
2018	T09	<b>FOS Research Seminar</b> , UBD, Brunei A Brief Guide to Variational Inference
	T08	<b>Inaugural Workshop on Data Science Theory and Practice</b> , LSE, London, UK Binary and Multinomial Regression using Fisher Information Covariance Kernels (I-priors)
	T07	<b>Social Statistics Group Meetings</b> , LSE, London, UK A Beginner's Guide to Variational Inference
2017	T06	<b>Turing Data Study Group</b> , The Alan Turing Institute, London, UK Can data science help identify potential drivers of extremism?
	T05	<b>International Meeting of the Psychometric Society (IMPS)</b> , University of Zürich, Switzerland Regression Modelling with I-Priors
	T04	<b>Department of Statistics PhD Presentation Event</b> , LSE, London, UK Binary probit regression with I-priors
2016	T03	<b>Social Statistics Group Meetings</b> , LSE, London, UK I-priors in Bayesian Variable Selection: From Reproducing Kernel Hilbert Spaces to Hamiltonian Monte Carlo
2015	T02	<b>Postgraduate Research Seminar</b> , LSE, London, UK Two-stage Bayesian variable selection for linear models using I-priors
	T01	<b>Department of Statistics PhD Presentation Event</b> , LSE, London, UK Regression Modelling using I-priors

# Skills

🔧 **Programming, data analysis and visualisation** using R, BUGS/JAGS, Stan, Stata, Mplus, and Mathematica

🔬 **Reproducible research** using 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](https://github.com/haziqj/cv).  
Document last rendered on 2022-12-26 17:03:19 [UTC].

# 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/](http://www2.warwick.ac.uk/fac/sci/statistics/staff/academic_research/firth/)
5. [https://community.amstat.org/businessandeconomicstatisticssection/new\\_item/new\\_item2](https://community.amstat.org/businessandeconomicstatisticssection/new_item/new_item2)
6. <https://scholarship.mindef.gov.bn/Theme/Home.aspx>
7. <http://fos.ubd.edu.bn/>
8. <https://ubdmaths.github.io/dy/>
9. <http://lse.ac.uk/Statistics/>
10. <https://www2.mindef.gov.bn/cstrad/>
11. [https://news.lockheedmartin.com/2011\\_12\\_13\\_Sikorsky\\_Signs\\_with\\_Brunei\\_Ministry\\_of\\_Defence\\_for\\_Sale\\_of\\_S\\_70iTM\\_BLACK\\_HAWK\\_Helicopters](https://news.lockheedmartin.com/2011_12_13_Sikorsky_Signs_with_Brunei_Ministry_of_Defence_for_Sale_of_S_70iTM_BLACK_HAWK_Helicopters)
12. [https://imstat.org/journals\\_and\\_publications/annals\\_of\\_applied\\_statistics/](https://imstat.org/journals_and_publications/annals_of_applied_statistics/)
13. <https://rss.onlinelibrary.wiley.com/journal/14679876>
14. [https://www.frontiersin.org/journals/applied\\_mathematics\\_and\\_statistics/](https://www.frontiersin.org/journals/applied_mathematics_and_statistics/)
15. <http://www.utb.edu.bn/>
16. <https://www.instagram.com/ablebrunei/>