H. Sherry Zhang

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Education

Monash University   *Melbourne, Australia*
DOCTOR OF PHILOSOPHY   *2020 - 2023*
- Supervisors: Dianne Cook, Patricia Menéndez, Nicolas Langrené (CSIRO Data61), and Ursula Laa (BOKU)

Monash University   *Melbourne, Australia*
BACHELOR OF COMMERCE (HONOURS)   *2016 - 2019*
- First Class Honours (H1)
- Honours research project: Exploration of judicial facial expression in videos of legal proceedings
- Supervisors: Dianne Cook and Russell Smyth

Publications

1. Zhang, H. S., Cook, D., Laa, U., Langrené, N., & Menéndez, P. (2021). Visual Diagnostics for Constrained Optimisation with Application to Guided Tours. *The R Journal*, *13*(2), 624–641. `https://doi.org/10.32614/RJ-2021-105`

2. Lee, S., Cook, D., Silva, N. da, Laa, U., Spyrison, N., Wang, E., & Zhang, H. S. (2022). The state-of-the-art on tours for dynamic visualization of high-dimensional data. *WIREs Computational Statistics*, *14*(4), e1573. `https://doi.org/10.1002/wics.1573`

3. Zhang, H. S., Cook, D., Laa, U., Langrené, N., & Menéndez, P. (2022). Wrangling multivariate spatio-temporal data with the R package cubble. In *arXiv* (No. arXiv:2205.00259). `https://doi.org/10.48550/arXiv.2205.00259`

Talks

Jun 2022	Cubble: An R Package for Organizing and Wrangling Multivariate Spatio-temporal Data	*UseR 2022*
	`https://sherryzhang-user2022.netlify.app/`	
Jul 2021	Visual Diagnostics for Constrained Optimisation with Application to Guided Tours	*UseR 2021*
	`https://sherryzhang-user2021.netlify.app/`	
Oct 2019	Exploration of Judicial Facial Expression in Videos of Legal Proceedings	*Young Stats. Conf. 2019*

Awards

Ongoing	CSIRO Data61 Postgraduate Research Scholarship	*CSIRO*
Ongoing	Monash Business School Co-Funded Graduate Research Scholarship	*Monash University*
2020	Dean's Honours List	*Monash University*
2019	Monash Summer Vacation Research Scholarship	*Monash University*

Teaching

S2 20/21	ETC5521 Exploratory Data Analysis	*Monash University*
S1 21/22	ETC5512 Wild Caught Data	*Monash University*
Jul 2020	Summer Institute in Statistics for Big Data (SISBID)	*Uni. of Washington*
S1 2020	ETC1010/ETC5510 Introduction to Data Analysis	*Monash University*
S2 2019	ETC1010 Data Modelling and Computing	*Monash University*

Software

2022	`cubble`: a multivariate data structure for organizing and wrangling spatio-temporal data
2021	`rjtools`: tools for authors to write, check, and submit articles to the R Journal
2021	`rj`: tools to help the (associate) editors with the reviewing process of the R journal
2020	`ferrn`: a package for visual diagnostics of projection pursuit guided tour optimisation
2020	`tourr`: implementing a data structure for collecting guided tour optimistaion data

Affiliation

1. Australian Research Council Centre of Excellence in Mathematical and Statistical Frontiers
2. Commonwealth Scientific and Industrial Research Organisation (CSIRO) Data61
3. Non-Uniform Monash Business Analytics Team (Monash NUMBATs)
4. Statistical Society of Australia (VIC branch)

Service

2022   Monash NUMBATs seminar organiser: `https://numbat.space/`