H. Sherry Zhang

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✉ Huize.Zhang@monash.edu | ⌂ huizezhangsh.netlify.app | ⌂ huizezhang-sherry | 🐦 huizezhangsh

Education

Monash University *Melbourne, Australia*
DOCTOR OF PHILOSOPHY *Feb 2020 - Aug 2023*

- Thesis: New tools for visualising and explaining multivariate spatio-temporal data, supervised by Dianne Cook, Patricia Menéndez, Nicolas Langrené (BNU-HKBU United International College, China), and Ursula Laa (BOKU, Austria)

Monash University *Melbourne, Australia*
BACHELOR OF COMMERCE (HONOURS), ECONOMETRICS & BUSINESS ANALYTICS *Feb 2016 - Dec 2019*

- First Class Honours (H1)
- Thesis: Exploration of judicial facial expression in videos of legal proceedings, supervised by 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). cubble: An R Package for Organizing and Wrangling Multivariate Spatio-temporal Data. In *Submitted to Journal of Statistical Software*. https://github.com/huizezhang-sherry/paper-cubble

Talks

Sept 2023	**Research Tools Workshop**: https://sherryzhang-quarto2023.netlify.app/	*Monash University*
May 2023	**Visiting talk**: https://sherryzhang-germany2023.netlify.app/	*University of Münster, Germany*
Apr 2023	**Visiting talk**: https://sherryzhang-ireland2023.netlify.app/	*Maynooth University, Ireland*
Feb 2023	**The Australia Spatial Econometrics & Statistics Workshop**: https://sherryzhang-monashspatial2023.netlify.app/	*Monash University*
Nov 2022	**ECSS Miniconference**: https://sherryzhang-ecssmini2022.netlify.app/	*virtual*
Nov 2022	**CANSSI Ontario Statistics Software Conference (invited)**: https://sherryzhang-canssi2022.netlify.app/	*virtual*
Jun 2022	**UseR! 2022**: https://sherryzhang-user2022.netlify.app/	*virtual*
Jul 2021	**UseR! 2021**: https://sherryzhang-user2021.netlify.app/	*virtual*

Teaching

Sem 1 20 & 21	**ETC5512 Wild Caught Data** https://wcd.numbat.space/ *on wrangling open data into analysis ready shape through case study on US air traffic data, Australia census and election data, among others*	*Monash University*
Sem 2 20 & 21	**ETC5521 Exploratory Data Analysis** https://eda.numbat.space/ *project-based exploratory data analysis class*	*Monash University*
Sem 1 20 Sem 2 19	**ETC1010/ETC5510 Introduction to Data Analysis** https://ida.numbat.space/ *on introducing tidyverse tools for data wrangling & visualising, basics in web scraping, text analysis, and programming with R*	*Monash University*

Workshop

Apr 2023	**Switching between space and time: Spatio-temporal analysis with cubble**	*R Ladies Vienna*
	`https://sherryzhang-rladiesvienna2023.netlify.app/`	
Dec 2022	**Wrangling spatio-temporal data with R** `https://sptm-tidy.numbat.space/`	*WOMBAT*
Sept 2022	**Switching between space and time: Spatio-temporal analysis with cubble**	*R Ladies Melbourne*
	`https://sherryzhang-rladiesmelb2022.netlify.app/`	

Software

2022 -	**cubble**: a multivariate data structure for organizing and wrangling spatio-temporal data	
	`https://cran.r-project.org/web/packages/cubble/index.html`	
2021 -	**rjtools**: tools for authors to write, check, and submit articles to the R Journal	
	`https://github.com/rjournal/rjtools`	
2021 -	**rj**: tools to help the (associate) editors with the reviewing process of the R journal	
	`https://github.com/rjournal/rj`	
2021 -	**ferrn**: a package for visual diagnostics of projection pursuit guided tour optimisation	
	`https://cran.r-project.org/web/packages/ferrn/index.html`	
2020 -	**tourr**: implementing a data structure for collecting guided tour optimistaion data	
	`https://cran.r-project.org/web/packages/tourr/index.html`	

Awards

2023	Opportunity scholar	*Posit::conf(2023)*
2022	People's Choice Award for the presentation in ECSS Miniconference	*Statistical Society of Australia*
20 - 23	Postgraduate (PhD) Research Scholarship	*CSIRO Data61*
20 - 23	Co-Funded Graduate Research Scholarship	*Monash Business School*
2020	Dean's Honours List	*Monash Business School*
2019	Summer Vacation Research Scholarship	*Monash University*

Affiliation

1. Non-Uniform Monash Business Analytics Team (Monash NUMBATs)
2. Statistical Society of Australia (VIC branch)
3. Commonwealth Scientific and Industrial Research Organisation (CSIRO) Data61

Service

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