H. Sherry Zhang

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Education

Monash University   *Melbourne, Australia*
DOCTOR OF PHILOSOPHY   *Feb 2020 - Aug 2023*
- Supervisors: Dianne Cook, Patricia Menéndez, Nicolas Langrené (BNU-HKBU United International College), and Ursula Laa (BOKU)

Monash University   *Melbourne, Australia*
BACHELOR OF COMMERCE (HONOURS)   *Feb 2016 - Dec 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). 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

Nov 2022	Switching between space and time: Spatio-temporal analysis with cubble `https://sherryzhang-ecssmini2022.netlify.app/` *People's Choice Award*	*ECSS Miniconference*
Nov 2022	Switching between space and time: Spatio-temporal analysis with cubble `https://sherryzhang-canssi2022.netlify.app/`	*CANSSI Ontario Stats. Software Conf.*
Jun 2022	Cubble: An R package for organizing and wrangling multivariate spatio-temporal data `https://sherryzhang-user2022.netlify.app/`	*UseR!*
Jul 2021	Visual diagnostics for constrained optimisation with application to guided tours `https://sherryzhang-user2021.netlify.app/`	*UseR!*
Oct 2019	Exploration of judicial facial expression in videos of legal proceedings	*Young Stats. Conf.*

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, and among others*	*Monash University*
Sem 2 20 & 21	**ETC5521 Exploratory Data Analysis** `https://eda.numbat.space/` *on independently raising interesting research questions from data and conduct exploratory data analysis to answer these questions*	*Monash University*
Jul 20	**Summer Institute in Statistics for Big Data (SISBID)** `https://github.com/dicook/SISBID` *on building static graphics with ggplot2 and interactive graphics include but not limited to plotly, gganimate, and tourr*	*Uni. of Washington*
Sem 1 20 Sem 2 19	**ETC1010/ETC5510 Introduction to Data Analysis** `https://ida.numbat.space/` *on introducing tidyverse tools for data wrangling & visualising and basics in web scraping, text analysis and programming with R*	*Monash University*

Workshop

Dec 2022	(upcoming) Wrangling spatio-temporal data with R	*WOMBAT*
	`https://numbats.github.io/WOMBAT2022/tutorial/sherry.html`	
Sept 2022	Switching between space and time: Spatio-temporal analysis with cubble	*R Ladies Melbourne*
	`https://sherryzhang-rladiesmelb2022.netlify.app/`	

Software

2021 - **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

2022	People's Choice Award for the presentation in ECSS Miniconference	*Statistical Society of Australia et al.*
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. Australian Research Council Centre of Excellence in Mathematical and Statistical Frontiers
4. Commonwealth Scientific and Industrial Research Organisation (CSIRO) Data61

Service

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