

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)
- New tools for visualising and explaining multivariate spatio-temporal data

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

- 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>
- Lee, S., Cook, D., Silva, N. da, Laa, U., Spyrisson, 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>
- 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

- Feb 2023 Switching between space and time: Spatio-temporal analysis with cubble
<https://sherryzhang-monashspatial2023.netlify.app/>
targeted audience in econometrics and statistics *The Aus. Spatial Econ. & Stat. workshop*
- 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 **ETC5512 Wild Caught Data** <https://wcd.numbat.space/> *Monash University*
20 & 21 *on wrangling open data into analysis ready shape through case study on US air traffic data, Australia census and election data, and among others*
- Sem 2 **ETC5521 Exploratory Data Analysis** <https://eda.numbat.space/> *Monash University*
20 & 21 *on independently raising interesting research questions from data and conduct exploratory data analysis to answer these questions*
- Sem 1 20 **ETC1010/ETC5510 Introduction to Data Analysis** <https://ida.numbat.space/> *Monash University*
Sem 2 19 *on introducing tidyverse tools for data wrangling & visualising and basics in web scraping, text analysis and programming with R*

Workshop

Dec 2022 **Wrangling spatio-temporal data with R** <https://sptm-tidy.numbat.space/>
Sept 2022 **Switching between space and time: Spatio-temporal analysis with cubble**
<https://sherryzhang-rladiesmelb2022.netlify.app/>

WOMBAT
R Ladies Melbourne

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

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| 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/>