

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

- 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

- Sept 2022 Switching between space and time: Spatio-temporal analysis with cubble *R Ladies Melbourne 2022*
<https://sherryzhang-rladiesmelb2022.netlify.app/>
- 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*

Workshop

- Dec 2022 Wrangling spatio-temporal data with R (invited) *WOMBAT 2022*
<https://numbats.github.io/WOMBAT2022/tutorial/sherry.html>

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 optimisation 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/>