

# 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

- Nov 2022 (upcoming) Switching between space and time: Spatio-temporal analysis with cubble ECSS Mini Conf. 2022  
<https://sherryzhang-ecssmini2022.netlify.app/>
- Nov 2022 Switching between space and time: Spatio-temporal analysis with cubble CANSSI Ontario Stats. Software Conf.  
<https://sherryzhang-canssi2022.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

## 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
- Summer Institute in Statistics for Big Data (SISBID)**  
Jul 20 <https://github.com/dicook/SISBID> Uni. of Washington  
on building static graphics with ggplot2 and interactive graphics include but not limited to plotly, gganimate, and tourr
- 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 (upcoming) Wrangling spatio-temporal data with R

<https://numbats.github.io/WOMBAT2022/tutorial/sherry.html>

WOMBAT 2022

Sept 2022 Switching between space and time: Spatio-temporal analysis with cubble

<https://sherryzhang-rladiesmelb2022.netlify.app/>

R Ladies Melbourne

## Software

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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 optimisation data

<https://cran.r-project.org/web/packages/tourr/index.html>

## Awards

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20 - 23 CSIRO Data61 Postgraduate Research Scholarship

CSIRO

20 - 23 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

## Affiliation

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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

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2022 Monash NUMBATs seminar organiser: <https://numbat.space/>