

# H. Sherry Zhang

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## Education

### Monash University

Melbourne, Australia

DOCTOR OF PHILOSOPHY (PHD), MATHEMATICS AND STATISTICS

Feb 2020 - Dec 2023

- Thesis: New tools for visualising and explaining multivariate spatio-temporal data
- Supervisors: 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., 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>
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

|           |  |                                |
|-----------|--|--------------------------------|
| Dec 2023  | CMStatistics (invited): <a href="https://sherry-cmstats2023.netlify.app/">https://sherry-cmstats2023.netlify.app/</a>  | Berlin, Germany                |
| Sept 2023 | Research Tools Workshop: <a href="https://sherryzhang-quarto2023.netlify.app/">https://sherryzhang-quarto2023.netlify.app/</a>   | Monash University              |
| May 2023  | Visiting talk: <a href="https://sherryzhang-germany2023.netlify.app/">https://sherryzhang-germany2023.netlify.app/</a>   | University of Münster, Germany |
| Apr 2023  | Visiting talk: <a href="https://sherryzhang-ireland2023.netlify.app/">https://sherryzhang-ireland2023.netlify.app/</a>   | Maynooth University, Ireland   |
| Feb 2023  | The Australia Spatial Econometrics & Statistics Workshop:<br><a href="https://sherryzhang-monashspatial2023.netlify.app/">https://sherryzhang-monashspatial2023.netlify.app/</a> | Monash University              |
| Nov 2022  | ECSS Miniconference: <a href="https://sherryzhang-ecssmini2022.netlify.app/">https://sherryzhang-ecssmini2022.netlify.app/</a>   | virtual                        |
| Nov 2022  | CANSSI Ontario Statistics Software Conference (invited):<br><a href="https://sherryzhang-canssi2022.netlify.app/">https://sherryzhang-canssi2022.netlify.app/</a>                | virtual                        |
| Jun 2022  | User! 2022: <a href="https://sherryzhang-user2022.netlify.app/">https://sherryzhang-user2022.netlify.app/</a>  | virtual                        |
| Jul 2021  | User! 2021: <a href="https://sherryzhang-user2021.netlify.app/">https://sherryzhang-user2021.netlify.app/</a>  | virtual                        |

## Teaching

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

## Workshop

|           |  |                           |
|-----------|--|---------------------------|
| Apr 2023  | <b>Switching between space and time: Spatio-temporal analysis with cubble</b><br><a href="https://sherryzhang-rladiesvienna2023.netlify.app/">https://sherryzhang-rladiesvienna2023.netlify.app/</a> | <i>R Ladies Vienna</i>    |
| Dec 2022  | <b>Wrangling spatio-temporal data with R</b> <a href="https://sptm-tidy.numbat.space/">https://sptm-tidy.numbat.space/</a>   | <i>WOMBAT</i>             |
| Sept 2022 | <b>Switching between space and time: Spatio-temporal analysis with cubble</b><br><a href="https://sherryzhang-rladiesmelb2022.netlify.app/">https://sherryzhang-rladiesmelb2022.netlify.app/</a>     | <i>R Ladies Melbourne</i> |

## Software

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

## Awards

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

## Affiliation

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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

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| 2022 | Monash NUMBATs seminar organiser: <a href="https://numbat.space/">https://numbat.space/</a> |
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