

# H. Sherry Zhang

huizezhangsh@gmail.com

Github: huizezhang-sherry

<https://huizezhangsh.netlify.app/>

---

## Education

- 2020 – 23 **PhD, Monash University**  
Thesis: *New tools for visualising and explaining multivariate spatio-temporal data*, supervised by Prof. Dianne Cook, Dr. Patricia Menéndez, Dr. Nicolas Langrené, and Dr. Ursula Laa.
- 2016 – 19 **BComm(Hons.), Monash University**  
Bachelor of Commerce with honours, First Class Honours (H1)  
Thesis: *Exploration of judicial facial expression in videos of legal proceedings*, supervised by Prof. Dianne Cook and Prof. 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>

*Accepted:*

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*. *Accepted by the Journal of Statistical Software*. <https://arxiv.org/abs/2205.00259>

*Submitted:*

4. **Zhang, H. S.**, Cook, D., Laa, U., Langrené, N., & Menéndez, P. (2023). *A tidy framework and infrastructure to systematically assemble spatio-temporal indexes from multivariate data*. *Submitted to the Journal of Computational and Graphical Statistics*. <https://arxiv.org/abs/2401.05812>

---

## Talks

*Invited*

Dec 2023	Computational and Methodological Statistics (CMStatistics 2023)	<i>Berlin, Germany</i>
Sep 2023	Monash Research Tools Workshop	<i>Melbourne, Australia</i>
Nov 2022	CANSSI Ontario Statistical Software Conference	<i>virtual</i>

*Contributed*

Feb 2023	The Australian Spatial Econometrics and Statistics Workshop	<i>Melbourne, Australia</i>
Nov 2022	Early Career and Student Statisticians Miniconference	<i>virtual</i>
	<b>People's Choice Award</b>	
Jun 2022	UseR! 2022	<i>virtual</i>
Jul 2021	UseR! 2021	<i>virtual</i>

*Visiting talks*

Jan 2024	Humboldt University of Berlin, Faculty of Economics	<i>Germany</i>
May 2023	University of Münster, Institute for Geoinformatics	<i>Germany</i>
Apr 2023	Maynooth University, Department of Mathematics and Statistics	<i>Ireland</i>

## Software

---

*Main maintainer:*

**tidyindex** A general data pipeline for computing indexes  
**cubble** A data structure for organizing and wrangling spatio-temporal data, 52 stars on GitHub  
**ferrn** Visual diagnostics plots for projection pursuit guided tour optimisation

*Regular contributor:*

**rj** Tools to help the (associate) editors with the reviewing process of the R journal  
**rjtools** Tools for authors to write, check, and submit articles to the R Journal, 30 stars on GitHub  
**tourr** Tour methods for multivariate data visualisation, 62 stars on GitHub

## Teaching

---

*TA for Monash coursework:*

2020, 21 ETC5512 Wild Caught Data  
2020, 21 ETC5521 Exploratory Data Analysis  
2019, 20 ETC1010/ETC5510 Introduction to Data Analysis

*Instructor for workshops:*

Apr 2023 Switching between space and time: Spatio-temporal analysis with cubble, R Ladies Vienna  
Dec 2022 Wrangling spatio-temporal data with R, WOMBAT  
Sep 2022 Switching between space and time: Spatio-temporal analysis with cubble, R Ladies Melbourne

## Awards

---

2024 John M. Chambers Statistical Software Award, American Statistical Association  
2023 Opportunity scholar, Posit::conf(2023)  
2022 People's Choice Award, ECSS Miniconference, Statistical Society of Australia  
2020 - 23 Postgraduate (PhD) Research Scholarship, CSIRO Data61  
2020 - 23 Co-Funded Graduate Research Scholarship, Monash Business School  
2020 Dean's Honours List, Monash Business School  
2019 Summer Vacation Research Scholarship, Monash University

## Service

---

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