

# H. Sherry Zhang

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## 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., 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>

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)	Berlin, Germany
Sep 2023	Monash Research Tools Workshop	Melbourne, Australia
Nov 2022	CANSSI Ontario Statistical Software Conference	virtual

Submitted

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

Visiting talks

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

## Software

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*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

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*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

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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

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