

# H. Sherry Zhang

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Github: huizezhang-sherry

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## Professional Experience

2024 – present    **University of Texas at Austin**  
Postdoctoral Fellow working with Prof. Roger Peng

## Education

2020 – 2023    **PhD in Statistics, 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 – 2019    **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*

Aug 2024	Joint Statistical Meeting (JSM)	Portland, USA
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

*Contributed*

Feb 2023	The Australian Spatial Econometrics and Statistics Workshop	Melbourne, Australia
Nov 2022	Early Career and Student Statisticians Miniconference	virtual
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:*

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

### *Regular contributor:*

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

## Teaching and Supervision

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2024	Co-supervisor for Google Summer of Code R Project
2024	Co-supervisor for summer first year PhD student at University of Texas at Austin

### *TA for Monash coursework:*

2020, 2021	ETC5512 Wild Caught Data
2020, 2021	ETC5521 Exploratory Data Analysis
2019, 2020	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 - 2023	Postgraduate (PhD) Research Scholarship, CSIRO Data61
2020 - 2023	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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2024 onwards	Reviewer for the R Journal
2022	Seminar organiser: Monash NUMBATs

## Media Coverage

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2023	Monash Graduate research impact: <a href="#">Crunching the numbers: How new research has revealed the hidden truth behind indexes</a>
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