# H. Sherry Zhang

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#### Current

2024 – present University of Texas at Austin

Postdoctoral Fellow working with Prof. Roger Peng

Dianne Cook and Prof. Russell Smyth

## 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.

## **Publications**

- 1. **Zhang, H. S.**, Cook, D., Laa, U., Langrené, N., & Menéndez, P. (2024). cubble: An R package for organizing and wrangling multivariate spatio-temporal data. *Journal of Statistical Software*, 110, 1-27. https://doi.org/10.18637/jss.v110.i07
- 2. **Zhang, H. S.**, Cook, D., Laa, U., Langrené, N., & Menéndez, P. (2024). A Tidy Framework and Infrastructure to Systematically Assemble Spatio-temporal Indexes from Multivariate Data. *Journal of Computational and Graphical Statistics*, 1-19. https://doi.org/10.1080/10618600.2024.2374960
- 3. 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
- 4. **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

### **Talks**

Invited		
Dec 2024 Oct 2024 Sep 2024	Iowa/ Nebraska Lincoln Graphic Group SDS Department Seminar Intl. Conf. on Trends & Perspectives in Linear Stats. Inference (LinStat	virtual Austin, USA Poprad, Slovakia
Aug 2024 Aug 2024 Aug 2024 Dec 2023 Sep 2023 Nov 2022	Computational Statistics (COMPSTAT 2024) Joint Statistical Meeting (JSM) John M. Chambers Statistical Software Award Talk Computational and Methodological Statistics (CMStatistics 2023) Monash Research Tools Workshop CANSSI Ontario Statistical Software Conference	Giessen, Germany Portland, USA Portland, USA Berlin, Germany Melbourne, Australia virtual
Contributed		
Feb 2023 Nov 2022 Jun 2022 Jul 2021	The Australian Spatial Econometrics and Statistics Workshop Early Career and Student Statisticians Miniconference UseR! 2022 UseR! 2021	Melbourne, Australia virtual virtual virtual
Visiting talks		
Jan 2024 May 2023 Apr 2023	Humboldt University of Berlin, Faculty of Economics University of Münster, Institute for Geoinformatics Maynooth University, Department of Mathematics and Statistics	Germany Germany Ireland

## Software

CRAN task view:

**Dynamic** A package review repository for dynamic and interactive graphics

Visualizations

Package 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

Package 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 and Supervision

2024 summer	Co-supervisor for Google Summer of Code R Project: ribbon and segment glyph map
2024  summer	Co-supervisor first year PhD student summer research 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

2024	John M. Chambers Statistical Software Award, ASA Section on Statistical Computing
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

2024 onward	ls Reviewe	er for the l	R Journal

2022 Seminar organiser: Monash NUMBATs

# Media Coverage

Monash Graduate research impact: Crunching the numbers: How new research has revealed the

hidden truth behind indexes