

Curriculum Vitae

Dr. Ruoxu Tan

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EDUCATION

- Ph.D. in statistical theory 2017.3 – 2021.6
School of Mathematics and Statistics, the University of Melbourne, Melbourne, Australia.
Thesis advisor: Prof. Aurore Delaigle.
- B.Sc. in mathematics and applied mathematics 2012.9 – 2016.7
School of Mathematics, Jilin University, Changchun, China.

RESEARCH EXPERIENCE

- *Postdoctoral Fellow* 2021.8 – Present
Department of Statistics and Actuarial Science, the University of Hong Kong, Hong Kong SAR, China.
Host: Prof. Guosheng Yin.
- *Research Assistant* 2021.5 – 2021.8
School of Mathematics and Statistics, the University of Melbourne, Melbourne, Australia.
Host: Prof. Aurore Delaigle.

RESEARCH INTERESTS

- Causal inference, missing data analysis
- Functional data analysis
- Manifold data analysis, manifold learning

TEACHING EXPERIENCE

The University of Hong Kong:

- DASC7011: Statistical Inference for Data Science Semester 1, 2022
- STAT2601: Probability and Statistics I Semester 2, 2021
- STAT1602: Business Statistics Semester 1, 2021

The University of Melbourne:

- MAST20005: Statistics Semester 2, 2020
- MAST20006: Probability for Statistics Semester 1, 2020
- MAST20005: Statistics Semester 2, 2019
- MAST20006: Probability for Statistics Semester 1, 2019
- MAST20009: Vector Calculus Semester 2, 2018

AWARDS AND CERTIFICATES

- China Scholarship Council (CSC)–University of Melbourne Ph.D. Scholarship
- The Second National Prize of Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM) 2013

PRESENTATIONS

- *Estimation of functional treatment effect using generalized empirical likelihood stabilized weights*, 5th International Conference on Econometrics and Statistics (EcoSta 2022), Kyoto, Japan.
- *Group testing regression analysis with missing data*, Young Statisticians Conference 2019, Canberra, Australia.

PUBLICATIONS

(* denotes the corresponding author.)

- [6] Tan, R., Huang, W.*, Zhang, Z. and Yin, G. (2022+). Causal effect of functional treatment. *Submitted*.
- [5] Delaigle, A. and Tan, R.* (2022+). Group testing regression analysis with covariates and specimens subject to missingness. *Submitted*.
- [4] Tan, R.* (2022+). Nonparametric regression with nonignorable missing covariates and outcomes using bounded inverse weighting. *Submitted*.
- [3] Tan, R.*, Zang, Y. and Yin, G. (2022+). Nonlinear dimension reduction for functional data with application to clustering. *Statistica Sinica*, to appear.
- [2] Delaigle, A. and Tan, R.* (2022+). Group testing regression analysis with missing data and imperfect tests. *Statistica Sinica*, to appear.
- [1] Tan, R.* (2021). Nonparametric techniques with missing data. *PhD Thesis*.