# TAO WANG

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#### EMPLOYMENT

University of Victoria British Columbia, Canada Assistant Professor, Department of Economics 2022-present Assistant Professor, Department of Mathematics and Statistics (Cross-Listed) 2024-2027

# **EDUCATION**

Ph.D., Economics, University of California, Riverside

June 2022

#### RESEARCH AREAS

Econometrics, Nonparametric Statistics, Machine Learning

# **PUBLICATIONS**

- "Mode-Adaptive Factor Models," *Scandinavian Journal of Statistics*, 2025+, accepted.
- "Online Kernel-Based Mode Learning" (with Yao, W.), *Journal of Computational and Graphical Statistics*, 2025+, available online.
- "Modal Volatility Function" (with Ullah, A.), *Journal of Time Series Analysis*, 2024+, available online.
- "Kernel Mode-Based Regression under Random Truncation" (with Yao, W.), *Statistica Sinica*, 2024+, available online.
- "Optimal Subsampling for Functional Quasi-Mode Regression with Big Data," *Journal of Computational and Graphical Statistics*, 2024+, available online.
- "Distributed Learning for Kernel Mode-Based Regression," *The Canadian Journal of Statistics*, 2024+, available online.
- "Semi-Functional Varying Coefficient Mode-Based Regression," Journal of Multivariate Analysis, 2025, 207, 105402.
- "Parametric Modal Regression with Autocorrelated Error Process," *Statistica Sinica*, 2025, 35, 457-478.
- "Nonlinear Kernel Mode-Based Regression for Dependent Data," *Journal of Time Series Analysis*, 2024, 45 (2), 189-213.
- "Nonparametric Estimator for Conditional Mode with Parametric Features," *Oxford Bulletin* of *Economics and Statistics*, 2024, 86 (1), 44-73.
- "Semiparametric Partially Linear Varying Coefficient Modal Regression" (with Ullah, A. and Yao, W.), *Journal of Econometrics*, 2023, 235 (2), 1001-1026.

- "Nonlinear Modal Regression for Dependent Data with Application for Predicting COVID-19" (with Ullah, A. and Yao, W.), Journal of the Royal Statistical Society Series A, 2022, 185 (3), 1424-1453.
- "Modal Regression for Fixed Effects Panel Data" (with Ullah, A. and Yao, W.), *Empirical Economics* (Special Issue on Honouring Badi Baltagi), 2021, 60, 261-308.
- "A Machine Learning Strategy for Autism Screening in Toddlers" (with Achenie, L. E. K., Scarpa, A., Factor, R. S., Robins, D. L., and McCrickard, S.), *Journal of Developmental & Behavioral Pediatrics*, 2019, 40 (5), 369-376.

## **OTHERS**

- "Discussion of 'Vintage Factor Analysis with Varimax Performs Statistical Inference'," *Journal* of the Royal Statistical Society Series B, 2023, 85 (4), 1092-1093.
- "Discussion of 'Modeling the COVID-19 Infection Trajectory: A Piecewise Linear Quantile Trend Model'," *Journal of the Royal Statistical Society Series A*, 2022, 185 (4), 1819-1821.

# WORKING PAPERS

- "Envelope Kernel Mode-Based Regression" (Reject & Resubmit)
- "Estimation and Testing of Forecast Rationality with Many Moments" (with Tae-Hwy Lee, R&R)
- "SPVC Modal Regression with an Error-Prone Linear Covariate" (R&R)
- "Nonparametric Spatial Modeling towards the Mode" (with Weixin Yao, R&R)
- "Modal Regression Discontinuity Designs" (with Aman Ullah)

#### AWARDS AND HONORS

NSERC Discovery Grant (PI, \$185,000)	2025-2030
NSERC Early Career Researcher Supplement (PI, \$12,500)	2025-2026
SSHRC Connection Grant (PI, \$14,709)	2025-2026
SSHRC Insight Development Grant (PI, \$47,611)	2023-2025
UVic-SSHRC Explore Grant (PI, \$7,000)	2023-2024
UVic Conference Travel Grant (\$1,000)	2023, 2024
UVic Research Start-Up Grant (\$20,000)	2022-2027
Top Cited Paper-Wiley: Oxford Bulletin of Economics and Statistics	2025
Dissertation Year Program Fellowship, UC Riverside	2021

# Conference and Seminar Presentations

- 2025 AERA Annual Meeting\*, EcoSta\*, International Conference on Statistics and Data Science\* (*Invited*), University of Missouri (Statistics), Simon Fraser University (Statistics)
- 2024 University of Illinois Urbana-Champaign, University of British Columbia (Statistics), University of Calgary (Statistics), University of Washington, University of Iowa (Educational

<sup>\*</sup> represents scheduled.

Measurement and Statistics), University of Iowa (Statistics), University of Victoria (Brown Bag), SIAM Conference on Parallel Processing for Scientific Computing (*Invited*), 6th ICSA-Canada Chapter Symposium (*Invited*), California Econometrics Conference

- 2023 Simon Fraser University, Purdue University, University of California Davis, University of California Irvine, University of California Riverside, University of Victoria (Statistics), Iowa State University, Huazhong University of Science and Technology, Hunan University, Zhejiang University of Finance & Economics, International Society for Business and Industrial Statistics (*Invited*), EcoSta (*Invited*), Canadian Econometrics Study Group
- 2022 University of Iowa, University of Victoria, Queen Mary University of London, Ca' Foscari University of Venice, California Polytechnic State University at San Luis Obispo, Newcastle University, NEOMA Business School, University of Victoria (Brown Bag), ESAM, CES, AMES in China, AFES, CEA Conference, California Econometrics Conference (Poster Session), ASSA (Poster Session)
- 2021 Bangor University, University of California Riverside, Freddie Mac, CFE-CMStatistics (Invited), SEA, CES, International Workshop Spatial Econometrics and Statistics, ISI WSC, IAAE Annual Conference, Bernoulli-IMS World Congress in Probability and Statistics, WEAI International Conference, AFES, AMES, LAMES, EEA-ESEM, JSM, RSS International Conference, RCEA Money, Macro & Finance Conference, Bristol Econometric Study Group, CEA Conference, RCEA Time Series Workshop, NBER-NSF Time Series Conference (Poster Session)

2020 Econometric Society World Congress

# TEACHING EXPERIENCE

#### University of Victoria

ECON 548 Applied Econometric Modelling (Graduate)	Spring 2023-2025
ECON 366 Econometrics: Part II (Undergraduate)	Spring 2023-2025
ECON 365 Econometrics: Part I (Undergraduate)	Fall 2024

## University of California Riverside

ECON 2681 Mini-Statistics (Graduate)	Summer 2020, 2021
ECON 162 Managerial Economics (Undergraduate)	Summer 2019, 2021
ECON 105B Intermediate Macroeconomic Theory (Undergraduate)	Summer 2021

#### Teaching Certificate

Instructional Skills Workshop May 2023

## Professional Activities

University of Victoria Department Seminar Committee July 2022-present

Department Working Paper Series Coordinator July 2022-present

Department Econometrics Oversight Committee July 2022-June 2023

Conference Local Organizer-California Econometrics Conference 2025

Reviewer for Proposals-National Council on Measurement in Education 2025

Scientific Programme Committee-EcoSta 2025 Scientific Programme Committee-EcoSta 2024 Session Organizer (Econometric Modeling with Time Series)-EcoSta 2025

Session Organizer (Econometric Modeling with Time Series)-EcoSta 2023

Session Organizer (Recent Developments in Nonparametric Econometrics)-CEA 2023

Session Chair (Econometric Modeling with Time Series)-EcoSta 2023

Session Chair (Recent Developments in Nonparametric Econometrics)-CEA 2023

Session Chair (Econometric Methods)-WEAI 96th Annual Conference

Session Chair (Rational Behavior)-11th RCEA Money-Macro-Finance Conference

Session Chair (Simultaneous Equations)-2021 Latin American Meeting of the ES

## Grant Reviewer SSHRC Insight Grant

Referee for Journal of Econometrics, Journal of the American Statistical Association, Review of Economics and Statistics, Journal of Financial Econometrics, Review of Development Economics, Econometric Reviews, Computational Economics, Journal of Multivariate Analysis, Econometrics, Australian & New Zealand Journal of Statistics, Statistical Methods & Applications, Journal of Quantitative Economics, Journal of Business Cycle Research, Journal of Business Economics and Management, Statistical Papers, Entropy, Biometrical Journal, The Canadian Journal of Statistics, Journal of Computational and Graphical Statistics, The Polish Statistician, Psychological Assessment, IEEE Transactions on Cybernetics, Networks and Spatial Economics

Students Supervised Xiao Gao (Ph.D. in Statistics, UC Riverside) Continuing Co-Supervisor

Jiaxuan Zhang 2024. (M.A. Essay)-Completed

Idler Aurelus (M.A. Essay) Continuing	Supervisor
Naimul Islam (M.A. Essay) Continuing	Supervisor
Vincent Wong (M.A. Essay) Continuing	Supervisor
Yuan Yin (M.A. Essay) Continuing	Supervisor
Mohammad Hossein Younesi (M.A. Essay) Continuing	Supervisor
Zhoumo Zhang (M.A. Essay) Continuing	Supervisor
Colton Clarke (Undergraduate) Continuing	Supervisor
(NSERC Undergraduate Student Research Award)	
Tao He 2024. (M.A. Essay)-Completed	Supervisor
Mohsen Fazeli 2024. (M.A. Essay)-Completed	Supervisor
Keegan Lawrence 2024. (M.A. Essay)-Completed	Supervisor

Co-Supervisor