Guanjie Lyu

CONTACT
INFORMATION

Department of Mathematics and Statistics
University of Windsor
455 Sunset Ave
Windsor, ON N9B 3P4

Tel: (+1)226-975-0116
Email: lvg@uwindsor.ca
Google Scholar
Personal Homepage

EDUCATION

University of Windsor — Sep 2020 - Present
Doctor of Philosophy in Statistics — (Parental leave 2024 Winter)
✧ Supervisor: Dr. Mohamed Belalia

University of Windsor — Sep 2018 - May 2020
Master of Science in Statistics
✧ Supervisor: Dr. Mohamed Belalia

Shijiazhuang Tiedao University — Sep 2014 - Jul 2018
Bachelor of Science in Mathematics & Applied Mathematics

PROFESSIONAL
EXPERIENCE

➢ Data Center Graduate Student Consultant — Feb 2023 - Apr 2023
✧ Academic Data Centre, Leddy Library, University of Windsor

➢ Lecturer, Sessional — Sep 2022 - Dec 2022
✧ STAT2920-01: Introduction to Probability

➢ Teaching Assistant — Sep 2018 - Present
✧ University of Windsor, Department of Mathematics and Statistics

PUBLICATIONS

➢ Papers in Peer-Reviewed Journals

[1] **Guanjie Lyu**, Mohamed Belalia*. (2024). Smooth estimation of conditional quantile function using Bernstein polynomials. *Statistics 58 (2): 407-421.*

[2] Mohamed Belalia*, **Guanjie Lyu**. (2024). Two-stage conditional density estimation based on Bernstein polynomials. *Communications in Statistics - Theory and Methods 53 (11): 4172-4193.*

[3] **Guanjie Lyu**, Mohamed Belalia*. (2023). Testing symmetry for bivariate copulas using Bernstein polynomials. *Statistics and Computing 33 (6): 128.*

➢ Papers Submitted to or Under Revision for Peer-Reviewed Journals

[1] **Guanjie Lyu**, Mohamed Belalia*. Testing independence using C-power functions. *Under revision*

[2] **Guanjie Lyu**, Mohamed Belalia*. Testing equality between the dependence structures of two samples using Bernstein polynomials. arXiv:2303.02510. *Submitted*

➢ Papers in Progress

[1] **Guanjie Lyu**, Mohamed Belalia, Abdulkadir Hussein*. Semiparametric copula quantile regression for semicontinuous data.

[2] **Guanjie Lyu***. K-sample test using integrated empirical copula processes.

PRESENTATIONS

➢ University of Windsor. Testing equality between the dependence structures of two samples using Bernstein polynomials. Sep, 2024 (scheduled).

➢ JSM2024 (contributed). Testing equality between two-sample dependence structure using Bernstein polynomials. Aug 7th, 2024 (scheduled).

➢ SSC2023 Oral (contributed). Smooth estimation of conditional quantile function using Bernstein polynomials. May 31st, 2023.

➢ CSSC2023 Poster (contributed). Smooth estimation of conditional quantile function using Bernstein polynomials. May 27th, 2023.

➢ SSC2022 Oral (contributed). Testing symmetry for bivariate copulas using Bernstein polynomials. June 2nd, 2022.

ACADEMIC SERVICES

➢ Reviewed Papers
  ✧ Referee for Open Statistics, 2022 (1 paper)
  ✧ Evaluator for UWill2022 conference, 2022 (1 paper)

➢ Services to Conferences
  ✧ Session chair, SSC2023

➢ Services to Committee
  ✧ Member of Departmental Council (2022 Fall - 2023 Summer, Department of Mathematics and Statistics , University of Windsor)
  ✧ Member of Appointments Committee (2022 Winter, Department of Mathematics and Statistics , University of Windsor)

HONOURS AND AWARDS

➢ CANSSI Ontario's Student Group   2024 - 2025
  ✧ Canadian Statistical Sciences Institute, 2,000 CAD

➢ Doctoral Entrance Scholarship   Sep 2020 - Aug 2024
  ✧ Department of Mathematics and Statistics, University of Windsor, 2,500 CAD each semester

➢ Student Travel Award
  ✧ Faculty of Science Student Travel Fund, University of Windsor, 500 CAD, 2024 Summer
  ✧ Graduate Student Conference Travel Support Fund, University of Windsor, 500 CAD, 2024 Summer
  ✧ 2023 SSC Annual Meeting Student Grant, 250 CAD

- ✧ Faculty of Science Student Travel Fund, University of Windsor, 250 CAD, 2023 Summer
- ✧ Graduate Student Conference Travel Support Fund, University of Windsor, 500 CAD, 2023 Summer
- ✧ 2020 SSC Annual Meeting Student Travel Award, 500 CAD