Guanjie Lyu

CONTACT INFORMATION	Department of Mathematics and Statistics	Tel: (+1)226-975-0116
	University of Windsor	Email: lvg@uwindsor.ca
	455 Sunset Ave	Google Scholar
	Windsor, ON N9B 3P4	Personal Homepage

EDUCATION

University of Windsor　　　　　　　　　　Sep 2020 - Dec 2024 (Expected)
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
　✧ Department of Mathematics and Statistics, University of Windsor

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. *Submitted*

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

➢ 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 (invited). Semiparametric copula quantile regression for semicontinuous data. Dec, 2024 (scheduled).

➤ Fifth Waterloo Student Conference in Statistics, Actuarial Science and Finance (contributed). Semiparametric copula quantile regression for semicontinuous data. Oct 18th, 2024 (scheduled).

➤ University of Windsor (invited). Testing the equality of the copulas of two multivariate populations with Bernstein polynomials. Oct 3rd, 2024.

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

➤ 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 ➤ Referee work
 ✧ Referee for Open Statistics, 2022 (1 paper)
 ✧ Referee for for UWill2022 conference papers (1 paper)

➤ Services to Conferences
 ✧ Session chair, SSC2023
 ✧ Volunteer for SSC Booth, JSM2024

➤ Committees
 ✧ Student elected member of Departmental Council (2022 Fall - 2023 Summer, Department of Mathematics and Statistics , University of Windsor)
 ✧ Member of the Committee for Promotion and Tenure (2022 Winter, Department of Mathematics and Statistics , University of Windsor)

HONOURS AND AWARDS
➤ Student PhD and Research Network (SPARK) Group   2024 - 2025
 ✧ Canadian Statistical Sciences Institute (CANSSI) Ontario

➤ Doctoral Entrance Scholarship   Sep 2020 - Aug 2024
 ✧ Department of Mathematics and Statistics, University of Windsor, 30,000 CAD

➤ 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 travel 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, Canadian Society for Statistics (SSC), 500 CAD