

# 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: <a href="mailto:lvj@uwindsor.ca">lvj@uwindsor.ca</a> <a href="#">Google Scholar</a> <a href="#">Personal Homepage</a>
EDUCATION	<b>University of Windsor</b> Doctor of Philosophy in Statistics ✧ Supervisor: <a href="#">Dr. Mohamed Belalia</a>	Sep 2020 - Present (Parental leave 2024 Winter)
	<b>University of Windsor</b> Master of Science in Statistics ✧ Supervisor: Dr. Mohamed Belalia	Sep 2018 - May 2020
	<b>Shijiazhuang Tiedao University</b> Bachelor of Science in Mathematics & Applied Mathematics	Sep 2014 - Jul 2018
PROFESSIONAL EXPERIENCE	> Data Center Graduate Student Consultant ✧ <a href="#">Academic Data Centre, Leddy Library, University of Windsor</a>	Feb 2023 - Apr 2023
	> Lecturer, Sessional ✧ STAT2920-01: Introduction to Probability	Sep 2022 - Dec 2022
	> Teaching Assistant ✧ University of Windsor, Department of Mathematics and Statistics	Sep 2018 - Present
PUBLICATIONS	> Papers in Peer-Reviewed Journals [1] <b>Guanjie Lyu</b> , Mohamed Belalia*. (2024). <a href="#">Smooth estimation of conditional quantile function using Bernstein polynomials</a> . <i>Statistics</i> 58 (2): 407-421. [2] Mohamed Belalia*, <b>Guanjie Lyu</b> . (2024). <a href="#">Two-stage conditional density estimation based on Bernstein polynomials</a> . <i>Communications in Statistics - Theory and Methods</i> 53 (11): 4172-4193. [3] <b>Guanjie Lyu</b> , Mohamed Belalia*. (2023). <a href="#">Testing symmetry for bivariate copulas using Bernstein polynomials</a> . <i>Statistics and Computing</i> 33 (6): 128.  > Papers Submitted to or Under Revision for Peer-Reviewed Journals [1] <b>Guanjie Lyu</b> , Mohamed Belalia*. <a href="#">Testing independence using C-power functions</a> . <i>Under revision</i> [2] <b>Guanjie Lyu</b> , Mohamed Belalia*. <a href="#">Testing equality between the dependence structures of two samples using Bernstein polynomials</a> . <a href="https://arxiv.org/abs/2303.02510">arXiv:2303.02510</a> . <i>Submitted</i>  > 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