

# MUMIN JIA

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## EDUCATION

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**York University**, Toronto, Canada

Sep 2023 - Present

*Ph.D. Candidate in Statistics*

**Boston University**, Boston, USA

Sep 2019 - May 2021

*M.S. in Computer Information Systems with Data Analytics concentration*

**Shanxi University**, Taiyuan, China

Sep 2014 - Jul 2018

*B.Econ. in International Economics and Trade*

## RESEARCH INTERESTS

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Large Language Models, Artificial Intelligence, Statistical Machine Learning, Deep Learning, Neural Networks, Natural Language Processing, Change-Point Detection.

## HONORS AND AWARDS

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- **Student Research Presentation Award, Statistical Society of Canada (2025)**

This award recognizes outstanding student researchers for originality, rigor, and clarity of presentation, selected from top PhD students in Statistics and Data Science across Canadian institutions.

- **Academic Awards, Shanxi University**

Second-class Scholarship, Dean's List, Excellent Student Cadre, Outstanding Diploma Theses

## PUBLICATIONS

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M. Jia, J. Diaz-Rodriguez, “**Dynamics of Spontaneous Topic Changes in Next Token Prediction with Self-Attention**”. Thirty-Ninth Annual Conference on Neural Information Processing Systems (NeurIPS 2025). [\[pdf\]](#)

M. Jia, J. Diaz-Rodriguez, “**Consistent Kernel Change-Point Detection under m-Dependence for Text Segmentation**”. To be submitted to ICML. [\[pdf\]](#)

M. Jia, J. Diaz-Rodriguez, “**Style Change Detection via LLM Consistency**”. In preparation.

## WORK EXPERIENCE

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**Texas Instruments Semiconductor Technologies**

Jul 2021 - Mar 2023

System Support Engineer

*Shanghai, China*

- Designed and deployed an **automated email alert and balance monitoring system**, ensuring timely recharge notifications and reducing service interruptions.
- Collaborated with cross-functional engineering teams to **expand service operations in the Philippines and South Korea**, including building a specialized data pass-through system for project launch.
- Utilized **SQL** to investigate order-processing errors, analyze root causes, and document system issues for rapid resolution.
- Supported development teams in India and North America by assisting with **front-end system debugging, system maintenance, and feature enhancements in Java**.

## ACADEMIC EXPERIENCE

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**Reviewer:** AISTATS 2025

**Teaching Assistant** (York University): Introduction to Data Science, Introduction to Statistics I, Principles and Techniques of Data Science, Introduction to Applied Statistics, Introductory Probability and Statistics

**Teaching Assistant** (Boston University): Web Mining and Graph Analytics