

# MUMIN JIA

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## EDUCATION

<b>York University</b> , Toronto, Canada <i>Ph.D. Candidate in Statistics</i>	Sep 2023 - Present
<b>Boston University</b> , Boston, USA <i>M.S. in Computer Information Systems with Data Analytics concentration</i>	Sep 2019 - May 2021
<b>Shanxi University</b> , Taiyuan, China <i>B.Econ. in International Economics and Trade</i>	Sep 2014 - Jul 2018

## RESEARCH INTERESTS

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

## HONORS AND AWARDS

- **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

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

<b>Texas Instruments Semiconductor Technologies</b> System Support Engineer	Jul 2021 - Mar 2023 <i>Shanghai, China</i>
<ul style="list-style-type: none"><li>• Designed and deployed an <b>automated email alert and balance monitoring system</b>, ensuring timely recharge notifications and reducing service interruptions.</li><li>• Collaborated with cross-functional engineering teams to <b>expand service operations in the Philippines and South Korea</b>, including building a specialized data pass-through system for project launch.</li><li>• Utilized <b>SQL</b> to investigate order-processing errors, analyze root causes, and document system issues for rapid resolution.</li><li>• Supported development teams in India and North America by assisting with <b>front-end system debugging, system maintenance, and feature enhancements in Java</b>.</li></ul>	

## ACADEMIC EXPERIENCE

**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