

Mengxu YUAN

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🌐 mengxu3.github.io

🌐 /in/mengxu-yuan

EDUCATION

- Sept. 2025 – Present 📖 **Ph.D. in Pure Mathematics**, University of Western Ontario, London, ON
Supervisor: Hristo Sendov
- Sept. 2024 – Aug. 2025 📖 **M.Sc. in Pure Mathematics**, University of Western Ontario, London, ON
Weighted Average: 88/100
Supervisor: Martin Pinsonnault
- Sept. 2020 – July 2024 📖 **B.Sc. in Information and Computing Science**, Wuhan University of Technology, Wuhan, China
Weighted Average: 90/100

PUBLICATIONS AND PREPRINTS

- 2026 📖 **Aggregate Bounds on the eigenvalues of the principal submatrices of a Hermitian matrix and majorization relations**
Hristo Sendov, **Mengxu Yuan**.
Submitted (Preprint available on ResearchGate), 18 pages.
- 2024 📖 **Few-shot Font Generation based on SAE and Diffusion Model**
Yizuo Shi, Wenxia Yang, **Mengxu Yuan**, Zeping Yi.
Published in *Highlights in Science, Engineering and Technology* (Proc. AMMSAC 2024), Vol. 107, pp. 613–627.

AWARDS AND HONORS

- Nov. 2023 📖 **Merit Student**, Wuhan University of Technology
Third-Class Scholarship, Wuhan University of Technology
- Nov. 2022 📖 **Second-Class Scholarship**, Wuhan University of Technology
- Jun. 2022 📖 **Third Prize, 14th 'Huazhong Cup' College Students Mathematical Modeling Competition**, Hubei Society for Industrial and Applied Mathematics
- Dec. 2021 📖 **First Prize, 13th National College Student Mathematics Competition**, The Chinese Mathematical Society
- Nov. 2021 📖 **Merit Student**, Wuhan University of Technology
National Endeavor Scholarship, Wuhan University of Technology

TEACHING EXPERIENCE

- Winter 2026 📖 **Graduate Teaching Assistant**, Department of Mathematics, UWO
📖 **MATH 1225: Methods of Calculus**
AM 1201: Calculus & Probability with Biological Applications
- Fall 2025 📖 **MATH 2155: Mathematical Structures**
MATH 2151: Discrete Math for Engineers

TEACHING EXPERIENCE (continued)

- Summer 2025  **MATH 1229:** Methods of Matrix Algebra
MATH 1228: Methods of Finite Mathematics
- Winter 2025  **MATH 2700:** Linear Algebra II
- Fall 2024  **CALC 1000:** Calculus I

SKILLS

- Technical Skills  **Programming:** Python, C/C++, MATLAB
Software: LaTeX
- Languages  **Mandarin** (Native)
Gan Chinese (Native)
English (Fluent)
- Interests  Table Tennis, Swimming, Badminton

ACTIVITIES

University Engagement

- Fall 2024  **Certificate of Participation, English Conversation Program (ECP),**
Western International, Western University.

Volunteer Service

- Aug. 2023 – Aug. 2025  **Campus Talent Ambassador,** Gongqingcheng City, Jiangxi, China.
Appointed by the Municipal Government to promote talent attraction policies to university students.
- Sept. 2021  **Final Round Volunteer, 2021 China Youth Innovation and Entrepreneurship Exchange Camp & 8th "Creating Youth" China Youth Innovation and Entrepreneurship Competition (Technology Innovation Track),**
Hubei Provincial Volunteers Association.

Social Practice

- Jul. 2021  **Participant, 2021 "Winter Vacation Alma Mater Trip" Enrollment Promotion Campaign,**
Wuhan University of Technology.