

Mo Yang

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ACADEMIC HISTORY

University of Michigan , Ann Arbor, USA	Expected May. 2025
Bachelor of Science in Data Science, GPA: 3.76/4.00	
Shanghai Jiao Tong University , Shanghai, China	Expected Aug. 2025
Bachelor of Science in Electrical and Computer Engineering, GPA: 3.60/4.00	

RESEARCH EXPERIENCE

AtomBot	Jan. 2024 – Now
Collaborated with Professor YZ at Umich to construct swarm robots' hardware, find patterns of swarm intelligence, and explore potential applications for swarm robots.	
Control Study in Biological Sensorimotor System	Sep. 2023 – Now
Collaborated with Professor Jingshuang Li at Umich to find applications of control theory explanation and models in biological sensorimotor system.	
Combustion Studies Related to Machine Learning	Sep. 2022 – Aug. 2023
Collaborated with Professor Dezhi Zhou at SJTU to explore a transfer learning method aimed at predicting ignition delay for various fuels.	
Thesis: Ignition Delay Prediction for Fuels with Different Molecule Structures via A Transfer Learning Approach (under review)	

TEACHING

Teacher's Assistant for MATH2860 (Honor Mathematics IV)	SJTU, Shanghai
Sep. 2023 – Dec. 2023	
Focused on Differential Equations and Linear Algebra with similar responsibility to MATH2850.	
Teacher's Assistant for MATH2850 (Honor Mathematics III)	SJTU, Shanghai
May. 2023 – Aug. 2023	
Worked with Professor Horst Hohberger as a course assistant of a 150+ student course covering Linear algebra and Multivariable calculus. Hold recitation classes and office hours weekly.	

HONORS & AWARDS

UM-SJTU JI Student Development Scholarship	Apr. 2023
Silver Medal in The University Physics Competition	Dec. 2022
SJTU Undergraduate Excellent Scholarship	Oct. 2022
Second Prize in the Chinese National Physics Contest for Middle School Students (Shanghai)	Oct. 2019

Course Works

MATH658 (Nonlinear Dynamics and Geometric Mechanics), MATH526 (Discrete Stochastic Processes) (A+), MATH471 (Intro to Numerical Methods), MATH451 (Advanced Calculus) (A), MATH445 (Intro to Info Theory) (A+), PSY3620 (Research Methods in Psyc) (A), PHYSICS160/260/360 (Honors Physics I/II/III) (A/A/A), MATH186/285/286 (Honors Math II/III/IV)

SKILLS & CERTIFICATIONS

Programming Languages: C/C++, Python, Mathematica, R, MATLAB, Verilog, LaTeX.

Tenth Level Certificate of Percussion

Shanghai Conservatory of Music, Jan. 2015