Wendong Li

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EDUCATION

University of Bonn   **Bonn, Germany**
M.Sc. Mathematics   Oct 2024 - Jul 2026
Year 1: Current average grade: 1.3 (1.0 is the full score, top 15%)
Core courses: Combinatorial Optimization (1.0); Combinatorics, Graphs, Matroids (1.7); Control Systems and Reinforcement Learning(1.0); Practical Lab Numerical Simulation - Algorithms in Machine Learning and Their Application(1.3); Cognitive Robotics Lab (1.7)

University of Birmingham   **Birmingham, UK**
B.Sc. Mathematics with Honours, Class 1   Sep 2021 - Jul 2024
Year 3: Scored 85.1 out of 100, awarded *The Kuttner Prize* for 2023/2024 best performance by a graduating student in Pure Mathematics area.
Year 2: Scored 87.5 out of 100, ranked in the top 1% of the class
Year 1: Scored of 89.5 out of 100, ranked in the top 1% of the class
Core courses: Real and Complex Analysis (91); Algebra and Combinatoric (94); Multivariable and Vector Analysis (94); Differential Equations (95); Linear Algebra and Linear Programming (96); Statistic (94); Metric space and Topology (92); Algebraic and Differential Topology (87); Functional and Fourier Analysis (94); Group theory (91)

Huazhong University of Science and Technology   **Wuhan, China**
B.Sc. Finance   Sep 2019 – Jun 2024

PROJECT & RESEARCH EXPERIENCE

(AI, MACHINE LEARNING & ROBOTICS)

University of Bonn   **Bonn, Germany**
Master Thesis(in progress)   Sep 2025 - Aug 2026
Under the Supervision of Professor Jochen Garcke
Topic: **Applications of Diffusion Reinforcement Learning in Crowd Navigation**

• Proposed a diffusion-based reinforcement learning framework for crowd navigation tasks.

• Completed major experimental studies and achieved state-of-the-art results compared to existing methods.

• Currently preparing a conference submission to a top-tier reinforcement learning venue, targeting Spring 2026.

University of Bonn   **Bonn, Germany**
Data Mining and Learning System Lab(in progress)   Oct 2025 - Jan 2026
Under the Supervision of Dr. Ramses J. Sanchez
Topic: **Discrete Diffusion for Time Series Imputation**

• Explored a novel framework that discretizes continuous time series via tokenization and leverages discrete diffusion models for time series imputation tasks.

University of Bonn   **Bonn, Germany**
Cognitive Robotics Lab   Sep 2025 – Oct 2025
Under the Supervision of Professor Sven Behnke
Topic: **Training Inline-Skating Policies for a Unitree G1 Humanoid Robot**(obtain grade 1.7)

• Developed a curriculum learning framework for training inline-skating locomotion policies for a Unitree G1 humanoid robot in simulation using the Genesis simulation environment.
• Designed hybrid locomotion policies enabling coordinated control of wheeled skates and legged motion.
• Achieved skating–walking behaviors through progressive task difficulty and reward shaping.

(OPTIMIZATION & ALGORITHMIC RESEARCH)

University of Bonn   **Bonn, Germany**
Graduate Seminar on Discrete Optimization(obtain grade 1.3)   Feb 2025 - May 2025
Under the Supervision of Professor Jens Vygen
Topic: Steiner Tree and Steiner Forest: LP Relaxations and Approximation Algorithms

University of Birmingham   **Birmingham, UK**
Summer Research Project Funded by the Department of Mathematics (£1668 in total)   Jul 2023 - Sep 2023
Under the Supervision of Professor Sergey Shpectorov
Topic: Commutative Algebra

University of Birmingham   **Birmingham, UK**
LH Research Skills in Mathematics Module   Sep 2023 - Jun 2024
Under the Supervision of Professor Sergey Shpectorov
Topic: Algebraic Geometry

(ACADEMIC PROGRAMS)
University of Cambridge   **Cambridge, UK**
Summer Program at Pembroke College   Jul 2022 - Aug 2022
Core Courses: Advanced Microeconomics (72%); Optimisation and Decision Mathematics(70%)

SKILLS & INTERESTS
Technical Skills
- **Programming: Python**
- **Machine Learning: Deep Learning, Reinforcement Learning, Diffusion Models**
- **Frameworks & Tools: PyTorch, NumPy, Gym, MuJoCo**

Interests
- **Swimming, Badminton, Table Tennis, Long-Distance Running**