

Lingfeng Zhao

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Education

University of Illinois at Urbana-Champaign

Bachelor of Science in Statistics & Computer Science, Mathematics

Relevant Coursework: Abstract Linear Algebra, Statistical Reinforcement Learning,

Introduction to Algorithms & Models of Computation, Deep Learning

Expected: May, 2025

GPA: 3.79/4.00

Research Experience

University of Illinois at Urbana-Champaign Professor Nan, jiang

Champaign, Illinois

Undergraduate Reinforcement Learning Researcher

January 2024 – August 2024

- Analyzed policy selection paper and policy evaluation algorithms
- Implemented a combination of policy evaluation and policy selection algorithms using Python and discussed the effect weekly with the professor
- Collaborated with 3 teammates and reorganized experiment structure

Work Experience

Chinese Institute for Brain Research

Beijing, China

Reinforcement Learning Research Intern

May 2023 - August 2023

- Established differential equation model for animal brain simulation using Matlab and consolidated effectiveness through discussion with the project leader
- Applied Q learning methods to find animal decisions under different concentrations of gas and designed a new co-validation algorithm after reading reinforcement learning papers
- Facilitated discussion with up to 10 teammates with candidate review in reinforcement learning and elegans area.

Project Highlight

University of Illinois at Urbana-Champaign

Champaign, Illinois

Deep Learning Project

September 2023 – January 2024

- Formulated a clean dataset using the panda package and integrated neural network skills with 3 teammates.
- Validated model performance and optimized prediction model in communication with professors and reviews.

University of Illinois at Urbana-Champaign

Champaign, Illinois

Data Structure Projects

September 2022 - January 2023

- Integrated data structures using C and generated strong test cases for code validation.
- Designed highly efficient codes and eliminated memory allocation problems.

University of Illinois at Urbana-Champaign

Champaign, Illinois

Machine Learning Project

September 2021 - January 2022

- Integrated machine models and web scraping skills in a Chrome extension to block bad words and pictures.
- Trained machine learning model locally to identify inappropriate words and pictures
- Led weekly meetings with 6 people and proposed Monte Carlo methods in uncertainty problems.

Skills & Interests

Programming Languages: C++, C, Java, Python

Language: Mandarin, English

Laboratory: Git, Visual Studio Code, Pycharm