Hao Liang

Curriculum Vitae

PERSONAL DETAILS

Birth	January 20, 2001
Address	Beijing, China
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ABOUT ME

Research Computational Mathematics & Applied Mathematics & AI
1)solving partial differential equations with neural networks.
2)Machine Learning theory
3)Artificial Intelligence (AI for science)

Anyone who is interested in my research and have solid mathematics background or strong programming ability, please feel free to contact me.

EDUCATIONS

PhD. Data Science 2023-present
Peking University (Supervisor: Weinan E)

Visiting Student. Mathematics and Computer Science 2022-2023
University of Oxford

BSc. Information and Computing Science 2019-2023
Beijing Institute of Technology

He ranked first in his major.
He is the only person who represented BIT to attend the national final, Chinese Mathematics Competition in two consecutive years.

Academic education in Middle school 2013-2019
The Experimental High School Attached to Beijing Normal University

RESEARCH EXPERIENCES

Research Intern Winter 2022
The Chinese University of Hong Kong (Supervisor: Yu Li)

Research Intern Summer 2022
University of British Columbia (Supervisor: Xiaoxiao Li)

Research Intern Winter 2022
North Carolina State University (Supervisor: Edward Gehringer)

In this research intern, he used Natural Language Processing(NLP) models to extract features from sentences. Also he tried to do some auto-grading works by comparing semantic similarity and completed a paper.

Research Intern Summer 2021

North Carolina State University (Supervisor: Xu Wu)

In this research intern, he used generative adversarial network(GAN) to generate data for the professor.

PROJECTS

Mathematics Modeling Project Winter 2022

Beijing Institute of Technology

In this project, he used matrix decomposition to solve the Netflix problem. He proved the gradient decent model for optimizing the Netflix problem and used python to program and got good results.

Optimization Project Fall 2021

Beijing Institute of Technology

In this project, he used matrix decomposition to solve the Netflix problem. He proved the gradient decent model for optimizing the Netflix problem and used python to program and got good results.

Project Summer 2020

North Carolina State University (Supervisor: Dr. Majed Al-Ghandour)

In this project, he used python to do prediction of stocks and used Tableau to do visualization. He got 100 points in the final presentation.

WORK EXPERIENCES

SKILLS

Languages	Chinese (mother tongue)
	English (fluent)
Programming	Python, C, C++
Software	Matlab, SPSS, R
Frameworks	Pytorch, Keras
Other Skills	LaTeX, Tableau

AWARDS

2019-2023 Feizhenyong Scholarship(The highest scholarship of mathematics department)
2021-2022 1st Prize/Beijing Division, Chinese Mathematics Competition(ranked 17th)
2020-2021 2nd Prize/National Final, Chinese Mathematics Competition(ranked 28th)
2020-2021 1st Prize/Beijing Division, Chinese Mathematics Competition(ranked 104th)
2020-2021 Diwen Scholarship(1/500)
2020-2021 Merit Student
2019-2020 Merit Student
2019-2020 National Scholarship(8/500)
2019-2020 1st Prize/BIT Mathematical Modeling Contest(10/300)

PUBLICATIONS