

PEIYANG GUO 郭培扬

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Permanent Address

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Champaign, IL 61820

Current Address

208 E White Street - 9
Champaign, IL 61820

EDUCATION

University of Illinois Urbana-Champaign

Liberal Arts & Science (Computer Science + Linguistics)

MATH416	Abstract Linear Algebra (Honor Section)	A+H	(H means Honor)
ECE110	Introduction to Electronics	A+	
PHYS211	University Physics: Mechanics	A+	
LING100	Intro to Language Science	A+	
CS225	Data Structure	AH	
CS173	Discrete Mathematics	AH	
CS128	Introduction to Computer Science II	AH	(max is A)
CS233	Computer Architecture (MIPS, Verilog)	A	
MATH347	Fundamental Mathematics	A	
RHET105	Writing and Research	A	

Expected Graduation: May 2026

GPA: 4.00/4.00, LAS Deans List

Shanghai World Foreign Language Academy

International Baccalaureate Diploma Programme

Math	HL	7/7 and Rank 1 st in School
Physics	HL	7/7
Music	SL	7/7 and Rank 1 st in School
CS	EE	A

Graduation: May 2022

GPA: 42/45

LEADERSHIP AND INVOLVEMENT

UIUC GITHUBER

Co-leader

Urbana-Champaign, ILLINOIS

September 2022 – Present

- Collaborate and co-lead the MechMania-28 Game AI 24h Hackathon for MM28 Competition, 2nd place
<https://github.com/UIUC-Githuber/MM28>
- Participate in HackIllinois hackathon event, developed an AI video converter that convert video style
<https://github.com/CharlieDreemur/AI-Video-Converter>

CS128 Honors Project

Co-leader

Urbana-Champaign, ILLINOIS

December 2022

- Collaborate in project RustKill, a local area network server for Werewolf Game, Focus in Backend
<https://github.com/ETwilight/Rust-project>

LOCRL (Programming & Modding Society)

Founder, President

CHINA

December 2015 – Present

- Powerband, Artificial Intelligence Music Generator [Still Working, Half Individual Project]
- WebIDE, Android Application for Web Developing

Computerization Club

Leader, AI Department Chief

Shanghai, CHINA

July 2020 – July 2021

- Leader, Enspire Website for School Student Managing, Expand the club members by 300%
- AI Department Founder + Chief, Prototype for Eldiutor, an elderly companion chatbot

WMC Mathematics Club

Vice President

- Mathematics Modelling Department in World Foreign Language Academy

Shanghai, CHINA

July 2020 – July 2021

UNRESTRAINED CONCERT

Founder, Piano Player, Coordinator

Shanghai, CHINA

June 2021 – Present

- The First Formal Classical Concert Festival in WFLA, will be holding the third concert this August
- Played S. Prokofiev Piano Concerto No.2 and F. F. Chopin Piano Concerto No.1, Whole Movements
- Lead Activity, Pick Location, Negotiate Rental Price, Accompanying and Ensemble, Publishing Host

RESEARCH

- Self-Research about *Energy-Based Reinforcement Learning* *October 2020*

A Novel Method of Reinforcement Learning Exploration process to handle Sparse-reward Environments

<https://github.com/ETwilight/Research/blob/master/EBEX/Energy%20Based%20Exploration%20in%20Reinforcement%20Learning%20-%20Brian%20Guo.pdf>

- Research in SJTU lab: *A New Benchmark for 2D-3D Object Discovery from Videos* *November 2020*

AWARDS & DISTINCTIONS

- 2020 Yau-Science Award for Computer Science **National Second Prize** *October 2020*
- 2020 High School Mathematical Contest in Modelling (HIMCM) **Honorable Mention** *November 2020*
- The International Mathematical Modelling Challenge 2020 **Meritorious** *January 2020*

SKILLS & LANGUAGES

Skills: Machine Learning Developing (Proficient) | Software & Web Developing (Proficient)

Programming Languages: C++, Python (and PyTorch), Java, JS (Proficient), Rust (Intermediate)

Interests: Machine Learning (Interpretability, NLP, RL, etc.) | Game Developing | Compiler