

# PEIYANG GUO

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## Permanent Address

208 E White Street - 9  
Champaign, IL 61820

## Current Address

208 E White Street – 9  
Champaign, IL 61820

## EDUCATION

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### University of Illinois Urbana-Champaign

*Liberal Arts & Science (Computer Science + Linguistics)*

MATH416	Abstract Linear Algebra Honor Section	A+H
ECE110	Introduction to Electronics	A+
CS225	Data Structure	A
CS233	Computer Architecture (MIPS, Verilog)	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<sup>st</sup> in School

**Graduation: May 2022**

GPA: 42/45

## LEADERSHIP AND INVOLVEMENT

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### UIUC GITHUBER

*Co-leader*

**Urbana-Champaign, ILLINOIS**

*September 2022 – Present*

- Collaborate and co-lead the MechMania-28 Game AI 24h Hackathon for MM28 Competition, 2<sup>nd</sup> 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*

**Shanghai, CHINA**

*July 2020 – July 2021*

- Mathematics Modelling Department in World Foreign Language Academy

### UNRESTRAINED CONCERT

*Founder, Piano Player, Coordinator*

**Shanghai, CHINA**

*June 2021 – Present*

- The First Formal Classical Concert in WFLA, will be holding the third concert this August

- Play 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

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- 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

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- 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

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**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