Lechen Huang

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EDUCATION

2024 – 2027   **B.S. in Computer Science, UCLA**

- GPA: 4.00/4.00
- Dean's Honors List
- Senior Standing / Expected: Mar 2027

TECHNICAL SKILLS

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

Data & ML: R, Stata, NumPy, PyTorch, MiDaS, OpenCV, PIL, Matplotlib

Tools & Systems: Git, Linux, LaTeX, VS Code, Jupyter

RESEARCH EXPERIENCE

Q-learning AI for Gomoku

- Conducted research on Q-learning algorithms in the Gomoku board game
- Engineered an AI program to play Gomoku with the application of Q-learning

CO_2 Impact on Surface and Ocean Temperatures

- Analyzed historical CO_2 levels using linear, quadratic, and ARIMA models to predict future trends.
- Authored a 22-page research paper on the correlation between CO_2 concentration and climate change.

Effects of Sleep on Mathematics Performance

- Conducted a statistical analysis on sleep duration and math grades using Stata.
- Co-authored a research paper in collaboration with the high school data science club.

INTERNSHIP

AI Computer Vision Intern — Huawei Nanjing Research Center

- Developed a depth-aware 2D dolly-zoom animation pipeline using MiDaS depth estimation and bilinear warping
- Improved visual coherence by preserving depth focus consistency and reducing geometric distortion artifacts

HONORS & AWARDS

Mathematics:

- **Honor Roll of Distinction (Top 1%)**, American Mathematics Competition 12
- **National Individual Top Award (Top 1%),** The Mathematics League
- **Finalist (Top 8%)**, High School Mathematical Contest in Modeling (HiMCM)

Computer Science:

- **Gold**, USA Computing Olympiad (USACO)
- **Individual Global Silver, National Top 10**, American Computer Science League (ACSL)
- **National Second Prize,** China Computer Federation Certified Software Professional Senior Division

Robotics：

- **First Prize** & **Third Place**, VEX EDR Asian Robotics Championship China Division (Team Leader)
- **First Prize**, VEX EDR Jiangsu Provincial (Team Leader)

ACTIVITIES

Participant, Tencent Rhino-Bird High School Science Talent Training Program

- Selected for an intensive training program, passing a rigorous evaluation (34% pass rate)
- Assisted in debugging and optimizing student code for programming assignments.
- Researched canine nose print recognition for pet identification and loss prevention.

Founder & Researcher, Computer Science & Data Science Club

- Instructed club members on using Stata, R, Python, and other software for data analysis at Jinling High School.
- Analyzed data and co-wrote a paper: "Effects of Sleeping Time on Mathematics Grades";

Teaching Assistant, AP Computer Science

- Assisted students with coding challenges and AP Computer Science problems, offering online tutoring sessions