

MENGYI SHAN

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EDUCATION

HARVEY MUDD COLLEGE, CLAREMONT, CA

Class of 2021

B.S. in Double Major in Computer Science and Mathematics. Major GPA: 4.0/4.0. Overall GPA: 3.8/4.0

- ❖ Relative courses (CS): Data Structure and Program Development, Principles & Practice: Computer Science, Computational Creativity, Computability and Logic, Computer science and Insights.
- ❖ Relative courses (Math): Statistics, Linear Algebra, Differential Equations, Discrete Math

THE HIGH SCHOOL AFFILIATED TO RENMIN UNIV. OF CHINA, BEIJING, CHINA

Class of 2017

Early Development Program (EDP).

- ❖ 98% A/A+ in all courses. Class rank top 1%.

SKILL

- ❖ Programming language: Python, Java, Wolfram Language, (beginner) C++
- ❖ Language: English, (bilingual) Mandarin Chinese, (beginner) Japanese
- ❖ Tool: MATLAB, Mathematica, R, Microsoft Office, (beginner) Photoshop

PROGRAMMING EXPERIENCE

STUDENT RESEARCHER ON NEURAL NETWORK, WOLFRAM INC.

2018.6 - 2018.7

- ❖ Project: Punctuation Restoration in English Text with Recurrent Neural Network
- ❖ Built and compared several neural net models with LSTM net and bidirectional net. Achieve 80% accuracy.
- ❖ Poster presented at Wolfram Research and posted with 'staff pick' on Wolfram Community.

SOFTWARE ENGINEER INTERN, XINWEI TECH., BEIJING, CHINA

2018.7 - 2018.9

- ❖ Collaborated with several other interns, worked mainly in software development with Java.
- ❖ Used Socket and multithread processing to build online communication tool.
- ❖ Explored Android application development and GUI design.

INDEPENDENT MACHINE LEARNING PROJECT OF SOUND ANALYSIS, BEIJING, CHINA

2016

- ❖ Developed a sound detection system with MATLAB to detect human voice in pop music.
- ❖ Involved usage of k-means clustering, MFCC and Gaussian Mixture Model to analyze sound wave.

INTERACTIVE ADVENTURE GAME, HARVEY MUDD COLLEGE, CA

2017

- ❖ Developed an interactive game with Prolog. Used forward planning method.

PRIZE AND CERTIFICATE

CERTIFIED WOLFRAM TECHNOLOGY ASSOCIATE, WOLFRAM RESEARCH INC.

2018.7 - now

- ❖ Ranked top 10 in the wolfram language coding competition. Certified student tech. associate.

PUTNAM MATH COMPETITION, AMERICAN MATH ASSOCIATION

2017.12

- ❖ Ranked 93th nationally. The first place in Harvey Mudd College's first year students. Honorable mentioned.

ROBERT JAMES PRIZE AND RIF SCHOLARSHIP, HARVEY MUDD COLLEGE

2018.9

- ❖ Received Robert James Prize which is given to two outstanding sophomores in general mathematics study.
- ❖ Received RIF Scholarship which is given to a sophomore with distinguished performance in math competition.

LEADERSHIP AND VOLUNTEER

VOLUNTEER IN THE GLOBAL TRANSLATOR COMMUNITY, COURERA

2018.7 - now

- ❖ Help with translation of courses' scripts from English to Mandarin Chinese.

VOLUNTEER WOLFRAM STUDENT AMBASSADOR, WOLFRAM RESEARCH INC.

2018.9 - now

- ❖ Organize Wolfram Language and Mathematica learning seminars at Harvey Mudd College.

VICE PRESIDENT, PUBLIC AFFAIR DEPARTMENT, CHINESE STUDENT ASSOCIATION, CLAREMONT COLLEGES

2017-2018

- ❖ Organized panel discussions, lectures and cultural activities.
- ❖ Wrote and managed weekly social media post.