YAN PAN

4500 Centre Ave \diamond Pittsburgh, PA 15213 (412)-897-9799 \$\phi\$ ypan2@andrew.cmu.edu \$\phi\$ panyan7.github.io

PERSONAL INFORMATION

Phone: (412)-897-9799Website: panyan7.github.io

Address: 4500 Centre Ave, Pittsburgh PA 15213

RESEARCH INTEREST

Reinforcement Learning, Deep Learning, Multimodal Learning. Machine Learning:

Theory: Learning Theory, Optimization.

EDUCATION

Carnegie Mellon University

Aug 2019 - Present Bachelor of Science in Computer Science (GPA: 3.95/4.00) Pittsburgh, PA

Minors in Machine Learning & Mathematical Sciences

Feb 2021 - Jun 2021 Tsinghua University

Exchange Student at Department of Computer Science & Technology Beijing, China

RESEARCH EXPERIENCE

CMU MultiComp Lab

Jan 2021 - Present Undergraduate Research Assistant Pittsburgh, PA

• Advisors: Prof. Louis-Philippe Morency, Paul Liang.

• Researched multimodal machine learning for multimodal social interations.

Peking University Institute of Remote Sensing and GIS

High School Researcher

• Applied LSTM to predict the demand for shared bikes.

Jun 2018 – Dec 2018 Beijing, China

PROJECTS

Scottv3D Jan 2021 – Present

Course Project for Computer Graphics, Project Description by Prof. Keenan Crane

• Build a 3D graphics software package includes components for interactive mesh editing, realistic path tracing, and dynamic animation.

Classical Piano Music Generator based on LSTM-RBM

Oct 2020 - Jan 2021

Course Project for Introduction to Machine Learning (PhD), GitHub

• DengFeng Cup National High School Academic Contest – Data Mining

• Trained a classical piano music generator based on LSTM-RBM model in PyTorch.

HONORS & AWARDS

Scholarship & Fellowship

• CMU Summer Undergraduate Research Fellowship (SURF)

Summer 2021

Aug 2017

Awards

| • (| CMU Dean's List. | High Honors | Fall 20 | 19 – | Fall 20 | 020 | |
|-----|-------------------|-----------------|---------|------|---------|-----|--|
| • (| JIMO Doan a Diag. | 111211 11011015 | 1 an 40 | 1.0 | 1 011 4 | 040 | |

• Shing-Tung Yau High School Science Award – Computer Award, Finalist Dec 2018

• International Mathematical Modeling Challenge (IMMC), International Finalist May 2018

• International Mathematical Modeling Challenge (IMMC), National Outstanding May 2018

REVEVANT COURSEWORK

10-725 Convex Optimization (PhD)16-385 Computer Vision10-701 Introduction to Machine Learning (PhD)15-462 Computer Graphics

15-251 Great Ideas in Theoretical Computer Science 21-325 Probability

15-213 Introduction to Computer Systems 21-355 Principles of Real Analysis

SKILLS

Programming Languages
Python, C++, C, MATLAB, Standard ML, Haskell, Java
Platforms
PyTorch, TensorFlow, Keras, Scikit-Learn, OpenCV, OpenGL

Software Tools LATEX, Git, Vim

Natural Languages English, Mandarin Chinese