

# YAN PAN

4500 Centre Ave ◊ Pittsburgh, PA 15213  
+1 (412) · 897 · 9799 ◊ ypan2@andrew.cmu.edu ◊ panyan7.github.io

## PERSONAL INFORMATION

---

Citizenship: P.R.China  
Phone: +1 (412)-897-9799  
Website: panyan7.github.io  
Address: 4500 Centre Ave, Pittsburgh PA 15213

## RESEARCH INTEREST

---

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

## EDUCATION

---

<b>Carnegie Mellon University</b> Bachelor of Science in Computer Science (GPA: 3.95/4.00) Minors in Machine Learning & Mathematical Sciences	Aug 2019 – Present <i>Pittsburgh, PA</i>
<b>Tsinghua University</b> Exchange Student at Department of Computer Science & Technology	Feb 2021 – Jun 2021 <i>Beijing, China</i>

## RESEARCH EXPERIENCE

---

<b>CMU MultiComp Lab</b> Undergraduate Research Assistant • Advisors: Prof. Louis-Philippe Morency, Paul Liang. • Researched multimodal machine learning for multimodal social interactions.	Jan 2021 – Present <i>Pittsburgh, PA</i>
<b>Peking University Institute of Remote Sensing and GIS</b> High School Researcher • Applied LSTM and DenseNet to predict the demand for shared bikes.	Jun 2018 – Dec 2018 <i>Beijing, China</i>

## PROJECTS

---

<b>Scotty3D</b> 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.	Jan 2021 – Present
<b>Classical Music Generator based on LSTM-RBM</b> Course Project for Introduction to Machine Learning (PhD), GitHub • Classical piano music generation based on LSTM-RBM model in PyTorch.	Oct 2020 – Jan 2021

## HONORS & AWARDS

---

<b>Scholarship &amp; Fellowship</b> • CMU Summer Undergraduate Research Fellowship (SURF)	Summer 2021
<b>Awards</b> • CMU Dean's List, High Honors • Shing-Tung Yau High School Science Award – Computer Award, Finalist • International Mathematical Modeling Challenge (IMMC), International Finalist • International Mathematical Modeling Challenge (IMMC), National Outstanding • DengFeng Cup National High School Academic Contest – Data Mining	Fall 2019 – Fall 2020 Dec 2018 May 2018 May 2018 Aug 2017

## REVEVANT COURSEWORK

---

10-725 Convex Optimization (PhD)	16-385 Computer Vision
10-701 Introduction to Machine Learning (PhD)	15-462 Computer Graphics
21-325 Probability	21-355 Principles of Real Analysis

## SKILLS

---

<b>Programming Languages</b>	Python, C++, C, MATLAB, Standard ML, Haskell, Java
<b>Platforms</b>	PyTorch, TensorFlow, Keras, Scikit-Learn, OpenCV, OpenGL
<b>Software Tools</b>	L <sup>A</sup> T <sub>E</sub> X, Git, Vim
<b>Natural Languages</b>	English, Mandarin Chinese