

# **Aaron Luo**

8720 Costa Verde Blvd, Apartment 3141, San Diego, CA 92122-6632 | (408)780-6365 | <u>aaluo@ucsd.edu</u>; Birthday: Oct 12, 1998

## **Objective**

Apply for 2019 summer internships related to Machine Learning, Data Science or Graphic Design. (Available from June 30 to Sept. 22)

#### **Education**

#### SENIOR AT UNIVERSITY OF CALIFORNIA, SAN DIEGO

- · Major: Machine Learning and Neural Computation in the Cognitive Science Department
- · BS (expected June 2020), Upper Division GPA 3.59
- · Related coursework up to June 2019
  - o Machine learning and Data Science (Neural Signal EEG data Processing, AI Algorithm and Social Languages, Bayesian inference, PCA, linear regression, KNN, SVM, and Neural Networks), Human Computer Interactions, and Deep Learning. (7 courses).
  - o Statistics and Probability related courses (2 courses).
  - o Cognitive Phenomena, Distribution Cognition, Neuroscience related courses (8 courses).
  - Social Phycology, Cognitive Psychology, Sound and Music Perception, Judgement and Decision Psychology. (4 courses).
  - o Computer languages, Data structure, Computer Organization and Systems Programming related courses (4 courses).
  - Math (Calculus, Differential Equations, Vector Geometry, Vector Calculus, and Discrete Mathematics) related courses (5 courses).
  - o Photography and Photoshop related course (1 course).

#### **Skills & Abilities**

- Python, Java, C, C++, MATLAB, ARM Assembly Language.
- Computer: Proficient with both Mac and PC formats, experienced with MS office Suite, Web Design, and Linux.
- Digital Photography using Single Lens Reflex Camera and Photoshop for image editing.
- Drawing and 3D modeling.
- Native Languages: English, Chinese.

# **Job Experience**

- Constructed and edited a promotional video for a Sinmu Corporation product. (2019)

- Graphic Designer for Eleos Global Tech Corporation, logo and mobile app UI design. (2018-2019)
- Contractor for Sinmu Corporation, drew patent illustrations for commercial and technological prototypes. (2018)
- Art commissions (2016-2018)

## **Projects**

- Used a Recurrent Neural Net model along with all 32 of Beethoven's sonatas to create a Beethoven music generator. (2019/April June)
- Used an EEG headset along with emotion related stimulus to capture emotion related brain activity and then used various machine learning algorithms to differentiate between emotions based on the collected brain signals. (2019/Jan March)
- Faculty Mentor Research Program: Develop a deep-learning model for selection of the best drug combination base on genetic profiles of patients. (Jan. June 2019)
- Used linear regression and PCA to determine what factors (such as social media attention and budget) best predicted the gross box office of select movies released in the years 2014-2015. (done in 2018 Summer)
- Used clustering to predict US annual GDP using the lyrical complexity of that year's most popular songs. Song statistics were taken off of Billboard's Hot 100 chart for each year from 1965 to 2015. (done in 2018 Spring)
- Construction of photograph portfolios put together to convey certain themes (2018)
- Extensive digital art experience in Clip Studio Paint (2016- 2018)

#### **Hobbies**

Computer Gaming, Game Design, Movie Critique, Story Writing, Animation and Drawing, Piano (Certificate of Merit Level 10), Music Composition, Photography, Swimming, and Water polo.