Jinghang Li

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EDUCATION

University of Pittsburgh, Pittsburgh, PA — Expected Graduation Date: April 2021
Swanson School of Engineering — Cumulative GPA 3.5/4.0

SKILLS

Programming languages: R, MATLAB, Python, C, HTML

- Strong MATLAB programming experience constructing machine learning models for hand written number recognition system.
- Strong experience in Python with **Computer Vision** tasks using OpenCV and NumPy.
- Proficient experience in R conducting statistical analysis and data visualization using ggplot.

Engineering skills: SIMULINK, ABAQUS, GD&T, SIEMENS NX12, SOLIDWORKS

- Competent using ABAQUS and Solidworks to conduct finite element analysis
- Experienced in MATLAB reading and analyzing data as well as building 2d & 3d geometry meshes for finite element analysis.
- Comfortable with Siemens NX12 designing and modifying orthopedics implant fixtures
- Fluent in both Mandarin & English

EMPLOYMENT

- **Summer Research Intern** — May 2020 – Present
  Geriatric Psychiatry Neuroimaging - University of Pittsburgh, Pittsburgh, United States
  Write streamlined MATLAB functions and R code to analyze brain PET and fMRI scan images and extract cortex mean activation values in order to calculate laterality of neuronal resource recruitment between hemispheres as well as produce Gaussian models of the spread of activation for measuring the full-width at half-maximum over the dorsolateral prefrontal cortex.
- **Summer Research Intern** — May 2019 – August 2019
  Soft Tissue Biomechanics Laboratory - University of Pittsburgh, Pittsburgh, United States
  Construct finite element analysis on alternative stenting device in ABAQUS.
  Extract, analyze nodes and elements as well as programmatically connect simulation files using MATLAB.
- **Manufacturing Co-op**
  Zimmer Biomet, Warsaw, Indiana — May 2018 – December 2019
  Assist tool designers in Siemens NX12, designing, modifying implant fixtures and creating drawings.
  Monitor and troubleshoot femoral implant production process thus reducing implant production scrap
  Use CMM program to inspect implant quality.
  Help metrology create gage tracking system to prevent gage loss in the packaging department.
  Initiate Management Change, switching packaging material with an annual $100,000 manufacturing saving.

LEADERSHIP EXPERIENCE

- Army ROTC leadership training program — September 2016 – April 2017
  University of Pittsburgh, Pittsburgh, PA