**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**](https://www.youtube.com/watch?v=p1FjMjvvFlE&t=8s&ab_channel=JinghangLi) 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](https://youtu.be/JgDFLrg7YIg) 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