

Jonathan Pierre

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science, Biomedical Engineering
Cumulative GPA: 3.22

Expected May 2022

Irwin and Joan Jacobs Scholar

August 2018 – Present

Awarded to 20 students per graduating class by Cornell University College of Engineering for showing a promising future within engineering and continuing to pursue academic excellence within the college

Relevant Courses: Cell and Developmental Biology, Statics and Mechanics of Solids, Biomedical Transport Phenomena, Physiology of Human Health & Disease, Biomedical Signals & Systems

ENGINEERING EXPERIENCE

Jonhasanikon.com, *Founder*

June 2020 – Present

- Launched a website, <https://jonhasanikon.com>, editing my own photographs using ImageJ processing tools (LUTs, & Noise) for the purpose of providing a creative way to learn real-world biomedical techniques

Case Western Reserve University x Cleveland Clinic, Cleveland, OH, *BME Intern*

June 2020 – August 2020

- Acquired 20+ covid-19 mask experiences to design a more effective, consumer friendly mask
- Programmed a website with 3 peers, <http://mmmamaskup.com/>, to consolidate information about covid-19 using html/css for a more informative experience

Modeling Using ANSYS, Cornell University, *Biomedical Transport Phenomena*

August – December 2019

- [3D modeled](#) stenosis within a bifurcating vessel in AutoCAD geometry for the purpose of analyzing the change in fluid flow using ANSYS
- [3D modeled](#) a kidney in ANSYS for the purpose of analyzing the diffusion of Rapamycin at different injection sites

LEADERSHIP EXPERIENCE

Undergraduate Teaching Assistant, *Intro to Biomedical Engineering*, Ithaca, NY

Fall 2020

- Provide lab assistance for PCR & Fluorescent Microscopy to 30 undergraduates; awarded position by course performance

CMUNC China, Cornell University, *Director*

August 2019

- Trained a class of 180 high school aged students on big data analysis at Hailiang Foreign Language School in Zhuji, China during Cornell Model United Nations China
- Co-organized and directed DISEC (Disarmament and International Security Committee) with international healthcare, combating modern terrorism, and cybersecurity as topics

Biomedical Engineering Society, Cornell University, *Publicity & Webmaster Chair*

August 2018 – Present

- Coordinate social media and promotional materials to unite the community of Biomedical Engineers on campus
- Organize group meetings, academic panels from upperclassmen, and activities with the Cornell University Meinig School of Biomedical Engineering faculty

CAMPUS INVOLVEMENT

Theta Tau Professional Engineering Fraternity, Cornell University, *Alumni Relations Chair*
Engineering Orientation Leader, Cornell University, *Leader*

February 2020 – Present
August 2019

SPECIALIZED SKILLS

Programs: Fluent in ANSYS, Python, Microsoft Office Suite, MATLAB, AutoCAD geometry, R Studio, ImageJ, html/css

Laboratory Skills: Polymerase Chain Reaction, Fluorescence Spectroscopy, Sterilization, Hemocytometry

Languages: French (*Basic*)