## CONTACT

- **Address**:
  220 Schuyler House,
  Ithaca, NY 14853
- **Email**:
  jwc297@cornell.edu
- **Phone:**
  904-315-8352

## SKILLS

- ML: Pytorch, TensorFlow
- Swift, Python, MATLAB, Java, C, C++
- GitHub
- CAD (Fusion360, Simulink, Zemax)
- Cell staining, fixing, passaging

## RELEVANT COURSES

- Digital System Design with Microcontrollers
- Radio Frequency Signals
- iOS App Development
- Mechatronics
- BME Machine Learning

## REFERENCES

Ben Cosgrove: bdc68@cornell.edu
James Antaki: antaki@cornell.edu
Kate Navickas: ken43@cornell.edu

## WEBSITES

- https://www.linkedin.com/in/jason-chen-hello/
- https://github.com/JasonChen47
- https://vitainnovations.co

# Jason Chen

*A passionate, innovation-driven human learning how to reduce suffering, develop medical devices, and treat diseases*

## EDUCATION

- Cornell University
  **Master of Biomedical Engineering** *2021-2022*
  **BA of Biological Sciences with Honors** *2018-2021*

## RESEARCH EXPERIENCE

- **Cosgrove Lab Researcher (Cell Culture)**
  *Cosgrove Lab at Cornell University (May 2019 – Present)*
  Novel chemotherapy on triple negative breast cancer; Cancer; Stem cells; Drug therapy
- **Kuceyeski Lab Researcher (Bioinformatics and ML)**
  *Kuceyeski Lab at Cornell University (May 2019-August 2021)*
  Machine learning to predict autism and multiple sclerosis from MRI scans
  *Neuromatch Academy (May 2020 to August 2020)*
  Implemented convolutional neural network to classify images based on BOLD fMRI signals

## WORK EXPERIENCE

- **Chief Technology Officer and Startup Founder**
  *Vita Innovations (March 2020 – February 2021)*
  Responsible for outreach and prototyping for VitalMask (a smart mask designed to save time in the emergency room by collecting patient vitals)
- **M. Eng. Project: Epi-Luminescent ARF-OCE**
  *Adie Lab at Cornell University for an M. Eng. Design project (August 2021-Present)*
  Tactile imaging system using an ultrasound transducer and 1300 nm laser
- **Biomedical Project Team Lead**
  *Biomedical Device at Cornell University; James Antaki (February 2019 – May 2021)*
  Prototype, test, and communicate about each year's biomedical device; Eagle, Fusion360, PCB, soldering, microcontrollers; BruxFree – a wearable biofeedback device for bruxism. Team won the Cornell Engineering Innovation Competition semi-finalist rank (2019)
- **University Writing Tutor**
  *Cornell Knight Institute; Kate Navickas (March 2019 – January 2021)*
  Tutored 100+ hours for various students, helping them gain confidence in writing
- **Resident Advisor**
  *Schuyler House at Cornell University; Vernon Miller (August 2021 – Present)*
  Organize programs and help manage a house of over 150 residents

## AWARDS AND HONORS

- **Weill AI Health Hackathon Grand Prize [and other VitalMask awards]** *(2020)*
  International Business Today competition, MDIC CNY Biotech Accelerator, Launch NY Incubator, FoundersXcel Kickstarter, Clinton Global, Cornell eLab
- **Cornell FinTech Hackathon Grand Prize** *(2018)*
  Designed a banking platform for the Peruvian bank Credinka to reduce banking risk.
- **Cornell Big Idea Competition Finalist** *(2019)*
  Entrepreneurship pitch competition; pitched LoonMesh: a mesh balloon which collects water from clouds. Accepted into Rev Ithaca Startups Hardware Accelerator (2019)
- **Biological Sciences Honors Thesis** *(2021)*
  Effects of Progesterone Activation and Inhibition in Chemotherapeutic Combination with PI3K Inhibition on Triple Negative Breast Cancer Cells