

# Meryl Wang

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<b>Education</b>	<b>Massachusetts Institute of Technology</b> <i>Cambridge, MA</i> <i>B.S. in Computer Science</i> Relevant Coursework: Software Studio, Linear Algebra, Algorithms, Machine Learning, Computational Photography, Oral Communications, Multimodal User Interfaces June 2020
<b>Experience</b>	<b>Ovation.io:</b> a Laboratory Information Management System platform <i>Software Engineer Intern</i> <i>Cambridge, MA</i> Jun – current <ul style="list-style-type: none"><li>Designed and implemented batch upload &amp; download features via CSV import &amp; export</li><li>Added re-usable CSV validator to check import CSV files &amp; display helpful error messages</li><li>Employed Ruby on Rails / EmberJS stack</li></ul> <b>ConquerX: Metachip for Early Cancer Detection</b> <i>Software Development Intern</i> <i>UMass Boston, MA</i> Jun – Aug 2018 <ul style="list-style-type: none"><li>Built an interactive web-app that ranks biomarkers by values (sensitivity, specificity, etc.) based on user criteria (e.g. cancer type), helping the lab select biomarkers that respond to presence of cancer.</li><li>Data-scraped biomarker databases (NIH Genomic Data Commons, dbDEMC 2.0) with Python Selenium and organized data via MongoDB</li></ul> <b>National Cancer Institute</b> <i>Research Intern</i> <i>Ft. Detrick, MD</i> Jun 2015 – Aug 2017 <ul style="list-style-type: none"><li>Studied effects of antibody humanization on physico-chemical properties of antibody-antigen protein-protein interactions. Curated datasets using databases (Protein Data Bank, DrugBank)</li><li>Published research article describing results of study. Cited in further antibody design studies</li><li>Applied UNIX Shell scripts to analyze protein models via bioinformatics software (Virtual Molecular Dynamics)</li></ul>
<b>Leadership/ Activities</b>	<b>MIT Asian Dance Team</b> <i>Technical Director</i> <i>Cambridge, MA</i> Jan 2018 – Jan 2019 <ul style="list-style-type: none"><li>Organized technical logistics for semesterly showcases (space, staffing, lighting, audio, etc.)</li></ul>
<b>Projects</b>	<b>Karaoke</b> Apr 2019 <ul style="list-style-type: none"><li>Developed an audio-gesture controlled karaoke web-app using Javascript and HTML/CSS</li><li>Used YouTube API for music, Google Web Speech API for audio recognition, Leap Motion Sensor SDK for gesture recognition</li></ul> <b>Emojo</b> Jan 2019 <ul style="list-style-type: none"><li>Implemented Emojifier, a feature that replaces text with matching emojis</li><li>Utilized web-scraping, MongoDB, and Node.js</li></ul>
<b>Skills</b>	<b>Programming Languages:</b> Python, Java, C++, Ruby <b>Web Dev:</b> Javascript, Python Selenium, Node.js, Ember.js, Rails <b>Other Technologies:</b> MongoDB, Git, LaTeX <b>Language:</b> Fluent Chinese, English
<b>Publication</b>	Wang M, Zhu D, Zhu J, Nussinov R, Ma B. Local and global anatomy of antibody-protein antigen recognition. <i>Journal of Molecular Recognition</i> . 2017;31(5).