

22 Robbins Rd Thompson CT 06277	<b>LANCE D. WONG</b> <a href="http://Lancedwong.com">Lancedwong.com</a>	(508) 579-1629 <a href="mailto:Ldw2125@columbia.edu">Ldw2125@columbia.edu</a> <a href="mailto:Ldwong20@gmail.com">Ldwong20@gmail.com</a>
<b>EDUCATION</b>		
<b>New York City, NY</b>	<b>Columbia University</b>	<b>Fall 2020 – May 2024</b>
Computer Science, School of Engineering and Applied Science, GPA: 3.80 <ul style="list-style-type: none"> <li>Robotics Software Team, Rock Climbing</li> <li>Relevant coursework: AI, CS Theory, Probability For Engineers, Advanced Programming, Discrete Math, Fundamentals of Computer Systems, Linear Algebra, Data Structures in Java, Multivariable Calculus, ODE</li> </ul>		
<b>Worcester, MA</b>	<b>Mass Academy at Worcester Polytechnic Institute</b>	<b>August 2018 – May 2020</b>
High School Diploma, GPA: 4.0 unweighted <ul style="list-style-type: none"> <li>Programming Team, Math Team, Western Mass American Regions Math League, BSA, Intramural Basketball</li> <li>Relevant coursework (with Dual Enrollment): AP Computer Science, Ordinary Differential Equations, Matrices and Linear Algebra I, Biotechnology, Cell Biology, Human Biology, Anatomy and Physiology</li> </ul>		
<b>EMPLOYMENT</b>		
<b>Worcester, MA</b>	<b>AbbVie</b>	<b>May 2021 – Aug 2022</b>
Software Engineer Intern <ul style="list-style-type: none"> <li>Developed and maintained two asynchronous React web apps. Both which aided researchers in analyzing germline mutation. TS frontend, Python/TS backend, PostgreSQL database</li> <li>Converted molecular dynamics Jupyter Notebook into web-app</li> <li>Optimized De novo assembly PyTorch script by updating algorithm and translating to C++</li> <li>Performed data analysis using NumPy on PACBIO data to find trends</li> </ul>		
<b>Worcester, MA</b>	<b>University of Massachusetts Medical School</b>	<b>May 2019 – June 2020</b>
Research Assistant <ul style="list-style-type: none"> <li>Interned under Dr. Richmond to investigate immunological mechanisms in lupus and morphea</li> <li>Learned and performed over 10 types of lab tests to generate 7 figures for publication (<a href="#">ResearchGate</a>)</li> <li>Wrote 4 articles for UMass Medical School Lupus website (<a href="#">UMMS Lupus Blog</a>)</li> </ul>		
<b>TECHNICAL EXPERIENCE</b>		
<b>Projects</b>		
<ul style="list-style-type: none"> <li><b>Manufacturing Standard Operating Procedure (SOP)</b> (2022) Collaborated in a team of 5 to develop a VR simulation of a SOP using C# in Unity. Business case and grand winner of AbbVie Hackathon (HackVie)</li> <li><b>Personal Website:</b> (2022) Developed personal website linked above using HTML and CSS</li> <li><b>ParticiPay</b> (2021) Collaborated in a team of 4 to create a web-app designed to increase student engagement in online learning</li> <li><b>InStockBot</b> (2021) Coded a Python script that regularly checks an item's price and availability on multiple sites, performs cost-analysis and sends a qualitative email alert to the user when a discount is found</li> <li><b>Music Motions: Mobile Application to Enable the Disabled to Play Music</b> (2019-2020) Collaborated with 2 other team members to develop a face-tracking piano app that allows the user to play, save, and export music files using Android Studio and OpenCV</li> </ul>		
<b>ADDITIONAL EXPERIENCE AND AWARDS</b>		
<ul style="list-style-type: none"> <li><b>BSA</b> (2020): Eagle Scout, National Youth Leadership Training</li> <li><b>American Invitational Math Exam Qualifier</b> (2019): Top 5% of the American Math Competition</li> <li><b>Math Team Coaching</b> (2018 – 2019): Coached over 30 middle school students at St. Bernadette's middle school weekly during the school year</li> <li><b>MIT Massachusetts State Science and Engineering Fair 4<sup>th</sup> Place Award (MSEF)</b> (2018): An investigation into the in-vitro interactions between Inter-alpha inhibitors and erythrocyte hemodynamics</li> </ul>		
<b>Languages and Technologies</b>		
<ul style="list-style-type: none"> <li>JavaScript/TypeScript, Python, C++, C, SQL, Java, HTML, CSS, LaTeX</li> <li>ReactJS, ExpressJS, PostgreSQL, pgAdmin, MongoDB, Neo4j, Plotly, Pandas, PyTorch, NumPy, FireBase</li> <li>Windows, Linux, GitHub, Android Studio, Adobe Premiere Pro, Adobe Illustrator</li> </ul>		