

## EDUCATION

<b>University of California, Los Angeles (UCLA) – Department of Mathematics</b>	<b>Los Angeles, California</b>
<b>Bachelor of Science in Financial Actuarial Math: GPA 3.72/4.0</b>	<i>April 2021</i>
<ul style="list-style-type: none"> <li>Honors College, Dean's Honors List: Spring 2020, Winter 2020, Fall 2018, Spring 2018, Winter 2017</li> <li>UD Coursework: Linear Algebra, Real Analysis, Probability, Statistics, Financial Mathematics, Interest, Microeconomics</li> </ul>	

## MACHINE LEARNING PROJECTS

<b>Movie Recommendation System - <a href="#">GitHub</a></b>	<b>Los Angeles, California</b>
<i>Collaborative Filtering via Singular Value Decomposition &amp; Stochastic Gradient Descent</i>	<i>March 2020</i>
<ul style="list-style-type: none"> <li>Created a system in Python that uses machine learning to provide personalized recommendations to users based on their ratings of a few movies from the MovieLens dataset; Optimal recommendations using a low dimensional approximation.</li> </ul>	
<b>Number Recognition WebApp - <a href="#">Link</a></b>	<b>Los Angeles, California</b>
<i>Convolutional Neural Networks &amp; Data Augmentation in TensorFlow &amp; Flask Framework</i>	<i>April 2020</i>
<ul style="list-style-type: none"> <li>Created a well generalizing deep learning model trained on the MNIST dataset with image augmentation in Python.</li> <li>Built and deployed a Flask WebApp that correctly and quickly classifies hand drawn input with significant distortions.</li> <li>Used Heroku for deployment, HTML, CSS, Javascript, Ajax, Flask &amp; TensorFlow (Python) for development.</li> </ul>	
<b>Predicting Wine Quality - <a href="#">GitHub</a></b>	<b>Los Angeles, California</b>
<i>Stacked Ensemble: Deep Neural Network Meta-trainer with 3 base models in Python &amp; Data Visualization</i>	<i>May 2020</i>
<ul style="list-style-type: none"> <li>Created 3 base models for the ensemble: Gradient Boosting Machine, Random Forest, Deep Neural Network.</li> <li>Achieved 90% White Wine, 88% Red Wine exact quality rating prediction accuracy. Used h2o.ai, Pandas, Seaborn.</li> </ul>	

## WORK EXPERIENCE

<b>Root Insurance</b>	<b>Columbus, Ohio</b>
<i>Actuarial Intern, Actuarial Pricing: Tooling</i>	<i>June – September 2020</i>
<ul style="list-style-type: none"> <li>Created a family of analyses within R that efficiently compute a metric tracking risk levels based on actuarial rating factors.</li> <li>Improved runtime efficiency by 75% through parallel computing. Built many visualization and automated analysis methods.</li> <li>Used RODBC, SQL, and AWS S3 with R to automatically query large datasets and quickly analyze using Data.table, Plotly.</li> </ul>	
<b>Siegel+Gale</b>	<b>Los Angeles, California</b>
<i>Insights Intern, Research &amp; Insights</i>	<i>June – August 2019</i>
<ul style="list-style-type: none"> <li>Created an end to end segmentation analysis in R using clustering &amp; improved runtime by 50% using parallel computing.</li> <li>Built Natural Language Processing and Topic Modelling tools in R that discovered themes from qualitative interviews.</li> <li>Designed qualitative questions, a brand equity survey and collected strategic research from stakeholder interviews for VISA.</li> <li>Identified new insights using existing data to build a positioning strategy for Lam Research by conducting a research audit.</li> <li>Built a user typing tool within R for name validation and brand perception research for NBC Universal (Peacock streaming).</li> <li>Created 2 research driven Employee Value Propositions for Siegel+Gale; Usability interviews for Wells Fargo Brand Portal.</li> </ul>	
<b>Green Hasson Janks</b>	<b>Los Angeles, California</b>
<i>Technology Solutions Intern, Tax &amp; Audit</i>	<i>April – June 2019</i>
<ul style="list-style-type: none"> <li>Analysis: Improved the efficiency of a custom automated billing solution by redesigning the excel data-table structure &amp; reducing computational complexity. Resulted in reduced runtime, product creation, and better department productivity.</li> <li>Consulting: Designed the product &amp; revenue model for a business facing automation tax product that optimizes deductions.</li> </ul>	
<b>The Princeton Review</b>	<b>New Delhi, India</b>
<i>Consulting Intern, Revenue &amp; Partnerships</i>	<i>July – August 2018</i>
<ul style="list-style-type: none"> <li>Data Analysis: Optimized marketing strategy and operations efficiency by creating a statistical analysis of data by region.</li> <li>Market Research: Provided differentiation and an understanding of market segmentation through competitor analysis.</li> <li>Product Development: Created a new career counselling product by analyzing employment growth, skill deficit, and median pay labor statistics across highly targeted destinations. Identified high impact partnerships for strategic growth.</li> </ul>	

## LEADERSHIP & EXTRACURRICULARS

<b>UCLA Student Government</b>	<b>Los Angeles, California</b>
<i>Director: Technology Impact, Outreach, Office of the Internal Vice President</i>	<i>January 2019 – Present</i>
<ul style="list-style-type: none"> <li>Led a team of developers and designers - created websites that improved funding accessibility for student-orgs, increased financial transparency through interactive data visualizations, and built an advocacy volunteering search portal (150+ orgs)</li> </ul>	
<b>Computer Science</b>	<b>Los Angeles, California</b>
<i>Algorithms, Data Structures, Clustering, Version Control</i>	<i>August 2019 – Present</i>
<ul style="list-style-type: none"> <li>Audited courses on asymptotic analysis, divide &amp; conquer algorithms, stacks, priority queues, graphs, trees, hash tables.</li> <li>Languages: Python, R, SQL, C++, HTML, CSS, Ruby on Rails; VCS: Git.</li> </ul>	
<b>Brown University Leadership Institute, Scholar. CERN Particle Physics, Research Trainee. Wharton, Entrepreneurship. IBM, Python. Google, Digital Marketing.</b> Interests: Consulting, Data Science, Machine Learning, Actuary, Finance, Music, Table Tennis, Puns.	