

Sunny (Sung Hee) Hong

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EDUCATION

University of California, Santa Barbara | Bachelor of Science, Statistics and Data Science

Graduated September 2020

WORK EXPERIENCE

Undergraduate Research Assistant | R, SQL, Tableau | Santa Barbara, CA

February 2020 – Present

- Designing and building a Tableau dashboard to present and publicize the importance of the geographic health disparity
- Came up with innovative solutions to aid large data readability for my team
- Wrangling data to calculate significant measurements to analyze geographic health disparities

Data Science Intern YMCA | R, Python, Power BI, Tableau, MapBox | Santa Barbara, CA

August 2019 – March 2020

- Streamlined communication with donors through interactive data visualization
- Solved open ended problems through cross-referencing ideas and conducting unsupervised machine learning

PROJECTS

Isla Vista COVID-19 | HTML, CSS, Tableau

August 2020

- Spearheaded my own COVID-19 mitigation campaign through building a website, designing flyers, and creating a live dashboard

Income : 1994 Census Data | R

March 2020 – June 2020

- Built KNN model with only 7 qualitative data to predict income and produced a test error rate of 24.38%
- Oversaw Random Forest that produced a test error of 12.8%
- Found significant insights that predictor values like age and education that mattered more than sex, native country, and race

Time Series : Climate Change | R

February 2020 – May 2020

- Executed a project in response to COVID-19 by researching about permafrost and predicting climate change in Delhi, India
- Built a model to predict monthly climate change in Delhi, India by interpreting ACF, PACF, AIC, and different diagnostic testing

Impact Map | R, Python, Tableau, Power BI

June 2019 – March 2020

- Designed an interactive map with Power BI through data-driven decisions (NLP, Topic Modeling)
- Web scraped data using url lib library and cleaned data using beautifulsoup library
- Worked on conducting an unsupervised topic model to generate topics through clustering words in a set of documents

“APP”solutely Successful (Project Leader) | R, Python, Tableau

September 2018 – April 2019

- Created and presented an impactful story to what defined a trendy Android App for UCSB Data Science Showcase
- Built Multiple Regression model with MSE of 0.00023 and Random Forest 1.09e+ (response variable : Installs)

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Lead Marketing Officer Data Science Club (UCSB) | Santa Barbara, CA

June 2019 – June 2020

- Led the marketing team to rebrand Data Science Club's social presence and to facilitate weekly meetings
- Created social events, promoted club cultures, and helped increase the retention of new members by 100%

Wildwood Summer Mission | Wildwood, NJ

Summer 2017 & Summer 2018

- Led a sweater fundraiser for 6 other students and sold 128 sweaters, raising an income of \$2,560

SKILLS & INDUSTRY KNOWLEDGE

Skills: R, Github, Machine Learning, Statistical Modeling, SQL, Tableau, Python, Power BI

Soft Skills: Project Management, Leadership, Problem Solving, Collaboration, Data Analysis