Cynthia Bundi
603-858-5234 ● Seattle,WA ● cynthiabundi.07@gmail.com

EDUCATION
Dartmouth College | Bachelor of Arts Quantitative Social Sciences | June 2021
- Honors and Awards: Recipient of the Dick & Polly Hill Scholarship at Dartmouth College in the class of 2021
- Citation for Academic Excellence in Quantitative Analysis of Social Networks

EXPERIENCE
Case Management Volunteer RPUMC Migrant Support Center | Seattle, WA | November 2024 - Present
- Managed and optimized databases to match migrants with affordable housing options, leveraging data organization and analytical skills to enhance resource allocation efficiency.
- Provided tailored resume editing, career guidance, and job market insights to empower migrants in aligning skills with employment opportunities.
- Navigated job application processes, offering personalized support to improve job search strategies and enhance long-term self-sufficiency outcomes.

Quantitative Research Associate Harvard Business School | Boston, MA | September 2021 - June 2024
- Developed and implemented a cutting-edge multivariate goodness-of-fit test, addressing model validation queries using anomalous pattern detection techniques applicable to fraud detection and other real-world scenarios.
- Collaborated with a data science team to refine and finalize a dynamic software package integrating causal peer influence models for social network analysis, enhancing scalability for various data structures.
- Led the derivation of advanced statistical theories and designed empirical simulations to distinguish the effects of homophily versus social contagion on social network behavior.
- Analyzed social media activity data to identify key drivers of online success, contributing to statistical modeling, hypothesis generation, and actionable research insights for optimizing engagement strategies.

Quantitative Analysis Tutor Dartmouth College | Hanover, NH | April 2020 - June 2020
- Guided students in Data Analysis using R under the professor's supervision, with a focus on web scraping, Rvest and data cleaning within RStudio.
- Developed leadership skills by fostering a collaborative, engaging learning environment, providing detailed explanations and guidance during biweekly sessions.

Research Assistant Materials Science Lab Dartmouth College | Hanover, NH | June 2019 - August 2019
- Collaborated with the product analysis team to evaluate the quality and mechanical properties of various metallic elements.
- Identified a cost-effective, energy-efficient, and environmentally friendly material for car engine applications, streamlining laboratory experiments and improving research efficiency.
- Designed and implemented data models, producing dynamic visualizations that effectively communicated complex research findings to the research team and supported data-driven decisions.

Research Assistant Digital Sociology Lab Dartmouth College | Hanover, NH | November 2017 - March 2018
- Conducted a comprehensive analysis of image data, including meticulous cleaning and processing, for accurate database entry.
- Investigated behavioral variations in photo-taking between private and public settings, uncovering insights into their impact on social media presence.

TECHNICAL SKILLS
- Programming: Python, R, SQL
- Data Analysis and Visualization: Ggplot2, Tidyverse, Matplotlib, Plotly Express, Tableau
- Data Wrangling & Cleaning: Numpy, Pandas, BeautifulSoup, Dplyr, Rvest
- Machine Learning & Statistical Modeling: Scikit-learn, glmnet
- Data Management: DBeaver, BigQuery, AWS, Google Cloud
- Other Tools: Excel (Advanced Data Analysis), Jupyter, RStudio, Git/GitHub, STATA, Parallel Computing, Grid Computing (No Machine Cluster)