

## Walker E. Hughes

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### Education

*Brigham Young University Class of 2021, GPA 3.82/4.00 (192 credit hours)*

- B.S. Applied and Computational Mathematics, B.S. Economics
- Minor in Portuguese Studies (ACTFL Advanced Mid Fluency)
- BYU Academic Half-Tuition Scholarship, Economics Department Internship Scholarship
- Member of Economics Student Association, Society for Industrial and Applied Mathematics BYU Chapter as student

### Skills

- Python, R, C++, SQL, PySpark, Git, Bash, linear algebra, optimization, statistics, machine learning, econometrics
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### Courses

Modeling with Data and Uncertainty	Algorithm Design and Optimization	Machine Learning/Deep Learning
Modeling with Dynamics and Control	Mathematical Analysis	Applied Econometrics

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### Professional and Leadership Experience

#### Cornerstone Research

San Francisco, CA

*Data Analyst and Economic Consultant*

Aug. 2021 – present

- Conducts economic research on antitrust matters and market efficiency for expert reports and federal court cases
- Utilizes event studies and counterfactuals to study asset price movements in response to news releases and disclosures
- Performs statistical analyses and creates data visualizations daily with R, SQL, and Excel

*Summer Analyst Intern*

June 2020 – Aug. 2020

- Implemented NLP model in Python and utilized cosine similarities to create comparison score between legal documents
- Contributed to expert report with stock portfolio composition visualizations from 14 terabytes of time-series data with R/SQL

#### Math Fire Lab

Provo, UT

*Machine Learning Research Assistant*

Sept. 2020 – May 2021

- Utilized image segmentation methods on multispectral images to estimate wildfire perimeters despite smoke occlusion
- Researched applications of kernel density estimates to derive wildfire risk distributions across geographic regions
- Presented findings at BYU Student Research Conference

#### Department of Economics, Brigham Young University

Provo, UT

*Teaching Assistant*

Jan. 2018 – Jan. 2021

- Teaching Assistant for Machine Learning, Econometrics, Macroeconomics, Principles of Economics courses
- Advised 75+ students on structure, content and analysis of econometric research and machine learning projects of their choice

*Research Assistant (Macroeconomics)*

May 2019 – Oct. 2019

- Utilized autoregressive models and impulse response functions to study composition of workforce after recessions

#### Social Impact Association

Provo, UT

*Co-Founder and Vice President*

Sept. 2018 – Jan. 2020

- Founded club that develops students' professional skills and connects them to careers in the Social Innovation space
- Increased weekly attendance by 55% and implemented mentorship program between students and professionals

#### Fundação Casa de Rui Barbosa (Rui Barbosa House Foundation)

Rio de Janeiro, Brazil

*Government Research Intern*

June 2018 – Aug. 2018

- Nominated as first student to represent BYU at think tank run by Brazilian Ministry of Culture in Rio de Janeiro, Brazil
  - Researched cultural impact of heterodox economic policies of Finance Minister Rui Barbosa that lead to recession in 1889
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### Volunteer Experience

#### English Around the World

Provo, UT

*Program Director, Volunteer English Tutor*

Sept. 2017 – Jan. 2020

- Taught weekly one-on-one English lessons to non-native speaker via video conferencing, increasing vocabulary by 200+ words
- Managed 21 student volunteers and paired them with English students in Brazil based on teaching experience

#### The Church of Jesus Christ of Latter-day Saints

São Paulo, Brazil

*Volunteer Representative*

July 2015 – June 2017

- Trained 4 new volunteers for 3 months each, teaching them proficient Portuguese grammar and daily planning skills
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### Interests and Hobbies

- Worked as preparation chef at *The French Laundry* for a day, avid bottlecap collector, currently attempting to build a banjo