## Lukas Gabriel Heisenberg Hager

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**EDUCATION** 

University of Washington

Ph.D. Student, Economics

M.A.. Economics

Seattle, Washington September 2020 – Present September 2020 – December 2022

University of Chicago

Chicago, Illinois

B.S., Mathematics with Specialization in Economics

September 2013 – June 2017

B.A., Economics

B.A., Germanic Studies

WORK EXPERIENCE

EntityRisk

Seattle, Washington

Data Science & Engineering Fellow

May 2022 - December 2022

- Wrote python package to calculate generalized risk-adjusted cost effectiveness of drugs using numpy
- Leveraged existing reports and academic literature to update existing cost-effectiveness estimates with risk-aversion
- Provided academic guidance on transitioning model concepts (i.e. certainty equivalents) from theory to real-world data

Cornerstone Research

San Francisco, California

Summer Data Analytics Consultant

June 2021 – August 2021

- Used requests and BeautifulSoup libraries in Python to automate user authentication and download of thousands of PDF files for an academic study, and sorted them using TF-IDF and k-means clustering
- Created feature for a web application which formatted Excel sheets for users, saving hours of manual labor per use

University of Michigan

Ann Arbor, Michigan

Data Scientist, Department of Pathology

November 2018 – April 2021

- Built predictive models using regularized linear regression and text clustering for anticipating high-volume workdays to ensure quick diagnosis turnaround
- Used patient outcome data to determine testing strategies that minimize the chance of low-value referrals to specialists
- Generated model to predict NAB test result given a patient's earlier testing outcomes using random forest model
- Created multiple Shiny applications to showcase model results and provide real-time metric tracking
- Built Pathology Department's internal COVID-19 tracking dashboard to extract and display real-time and historical testing numbers and positivity rates for departmental leadership

Cornerstone Research

San Francisco, California

Analyst

September 2017 – November 2018

- Cleaned data, ran regressions, and helped to created statistical models for cases involving assessing the validity of claims of gender discrimination within a major US retailer and assisting the Department of Justice in reviewing a potential merger
- Used IBM Netezza platform in engineering complex data build involving over three hundred million observations to run efficiently and without errors

TGG Group

Chicago, Illinois

Summer Associate

June 2016 - August 2016

- Built model to predict the future price of commodities based on 35 years of data and presented it to the client
- Cleaned and performed analyses on summons data to investigate whether or not a quota existed in the city's law enforcement department, one of which resulted in statistically significant results and was included in the final report

## PROJECT WORK

Texas Justice Initiative

July 2020 - September 2021

- Automated the backend of the data cleaning model using Python and Google Sheets
- Worked on a report to analyze the dataset in depth and provide examples to users of how to leverage the TJI data

## **AWARDS**

Roe Fellowship Recipient, James K. & Viola M. Hall Fellowship Recipient, Davis Scholar

## SKILLS

Programming: R/RStudio/RShiny, SQL, Python/Pandas/Numpy, Git/GitHub, LATEX