

ANUAR ASSAMIDANOV

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EDUCATION

Claremont Graduate University <i>Ph.D. in Economics</i>	2020 - Present Claremont, CA
Claremont Graduate University <i>M.A. in Economics</i>	2019 - 2020 Claremont, CA
Nazarbayev University <i>B.S. in Mechanical Engineering</i>	2011 - 2015 Nur-Sultan, Kazakhstan

RESEARCH INTERESTS

Applied Microeconomics, Labor Economics, Causal Inference, and Machine Learning

RELEVANT EXPERIENCE

Part-Time Data Scientist <i>211 LA County</i>	May 2020 - May 2022 Los Angeles, CA
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- Building Deep Learning and Machine Learning models in Pytorch, Tensorflow and Sklearn (Python)
- Utilized data visualization dashboard with Tableau to make clear and concise visual representations
- Communicating complex concepts and the results of the analyses in a clear and effective manner to senior management

Research Assistant <i>Computational Justice Lab</i>	August 2019 - Present Claremont, CA
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- Performed Causal Inference techniques to conduct studies addressing Criminal Justice Policy
- Worked on accessing and processing data over 50 million rows in size from multiple API endpoints
- Developed a data cleaning and reshaping scripts in Python to normalize historical time-series and geographical data into a database

WORKING PAPERS AND PROJECTS

Pandemic Safeguards and Household Safety <i>with G. DeAngelo, Y.Le, S.Cunningham, and R.Thornton</i>	May 2020 - December 2020
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- Estimated average treatment effects associated with three COVID-19 policies – shelter in place, school closures and daycare closures – on family violence, as recorded in 911 calls and police incidents data across dozens of American cities.
- Applied two-way fixed effects estimates alongside Callaway and Sant’Anna’s (2020) estimator for differential timing with heterogenous treatment effects.

Recidivism Forecasting Challenge <i>with Muhammed Selman</i>	June 2021
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- Predicted recidivism using person and place-based variables with the goal of improving outcomes for those serving a community supervision sentence.
- Utilised Xgboost, Adaboost, LightGBM, CatBoost, Autoencoder, and Logistic Regression algorithms using Python libraries

Recommendation System

August 2020 - March 2021

with 211 LA Data Team

- Developed Recommender System using cutting-edge Deep Learning and Machine Learning models in Pytorch and Sklearn
- Deployed the model using Flask, Docker and Google Cloud Platforms
- Develop A/B test plans in conjunction with the Resource, Data, and Development teams

An Evaluation of Sex Offender Residency Restrictions in California

with Josie Xiao

- Examined the impact of proximity restrictions for sex offenders on sex offense crimes in Los Angeles County.
- Used Regression Discontinuity design combined with a before-after estimation to explore the effect of this law on the number of sex offences committed 2000 feet outside the schools and parks.

TEACHING EXPERIENCE

Instructor of Record for Machine Learning in Economics

Spring 2022

Cal State Fullerton

Teaching Assistant

Fall 2021- Summer 2021

- Machine Learning in Asset Pricing, Claremont Graduate University
- Causal Inference and Research Design, Remote Student Exchange Course

HONORS, GRANTS AND AWARDS

Prize Winner in “Recidivism Forecasting Challenge” (\$19,500)

Summer 2021

Machine Learning Contest hosted by National Institute of Justice

NBER Grant on Women, Victimization, and COVID-19

Fall 2020

with S. Cunningham, R. Thorton, G. DeAngelo, and Y.Le

Criminal Justice Reform Fellowship

Spring 2020

Claremont Graduate University

Blaisdell Economics Fellowship

2019-2021

Claremont Graduate University

CGU Fellowship - Economics

2019-2021

Claremont Graduate University

TECHNICAL SKILLS

Areas of Excellence: Data Science, Data - Driven Analysis, Causal Inference, Machine Learning, Deep Learning, Business Intelligence, Business Analytics, Tensorflow

Technical Skills A/B testing, Data Mining, Decision Trees, Statistical Analysis, Data Visualization, Neural Network, PostgreSQL, HTML5, Flask, Web Scraping, GIS, Git, Github

BIG DATA Python, R, SQL, Tableau, Tensorflow, Pytorch, Scikit-Learn, Pandas, Numpy