

EDUCATION

- UC San Diego: PhD in Economics, *May 2017*
- University of Tokyo: Master in Public Policy, *Apr 2012*
- UC Berkeley: BEng in Industrial Engineering, Cum Laude, *Dec 2007*

EMPLOYMENT

Research Scientist	FiscalNote	2019 - Present
<ul style="list-style-type: none">• Project lead of a data-to-text natural language generator prototype system that provides news coverage on state legislation. Demonstrated viable technical approach for a new product feature.• Researched novel NLP techniques to surface themes and extract relevant information in large text corpus. Presented papers at two conferences (APSA, COMPTXT). Python/R/SQL/ElasticSearch/Spark/AWS.		
Data Scientist	Pew Research Center Data Labs	2017 - 2019
<ul style="list-style-type: none">• Led a team of 4 in applied machine learning research projects - from the initial idea generation to the design of back-end infrastructure, model training and validation, data analysis and report writing.• Conceptualized and developed a geodatabase that allows researchers to study how attitudes of survey respondents overlay with geographic components. Python/R/Django/AWS/Docker/Keras.		
Fellow	Data Science for Social Good	2016
<ul style="list-style-type: none">• Key contributor to an end-to-end machine learning data pipeline comprised of ETL, model training, validation, deployment and inference. Python/SQL/Command Line Tools.		
Teaching Assistant	UC San Diego	2012 - 2017
<ul style="list-style-type: none">• TA for 11 undergraduate courses, including introductory and intermediate microeconomics sequences.		
Analyst	BlackRock	2008-2010
<ul style="list-style-type: none">• Supported internal and external users of BlackRock's risk management software enterprise system (Aladdin). SQL/Command Line Tools.		
Engineering Intern	Intel	2006
<ul style="list-style-type: none">• Developed metrics to measure equipment and factory capacity and output, identified run rate improvement projects, established accident prevention measures and planned training programs for personnel.		

LANGUAGES AND SKILLS

- Programming: Python, R, SQL, Django, AWS, Docker, Spark, ElasticSearch
- Data Science: Machine Learning, Deep Learning, Natural Language Processing, Computer Vision
- Languages: English, Chinese, Japanese

PROJECTS

- Jicount: A platform that allows users to upload academic papers to seek constructive feedback and allow them to track publication progress. Built from scratch using Django and deployed to AWS.

RESEARCH

Academic

- **Advertisers Capture: Evidence from Hong Kong** (Under Review)
Covered By: Marginal Revolution
- **Measuring Subjectivity in History Textbooks** (R&R)
Covered By: BBC
- **Political Shifts and Public Responses to Agency Action**, with Michael Livermore and Vlad Eidelman, (Submitted)

Reports

- **Men Appear Twice as Often as Women in News Photos on Facebook**, *May 2019* (with Stefan Wojcik, Brian Broderick and Adam Hughes)
Covered by: Adweek, Forbes, PCMag, Nieman Lab, Multichannel News, Washington Post, The Lily
- **Gender and Jobs in Online Image Search**, *Dec 2018* (with Stefan Wojcik, Brian Broderick and Adam Hughes)
Covered by: CNN, The Washington Post, Mercury News, USA Today, Mother Jones, Mercury News, East Bay Times, The Lily, MarketWatch
- **How far Americans live from the closest hospital differs by community type**, *Dec 2018* (with Brian Broderick and Skye Toor)
Covered by: CityLab, American Organization for Nursing Leadership, Mississippi Health Advocacy Program
- **What Google searches can tell us about Americans' interest in guns**, *Mar 2018*
- **There's a large gender gap in congressional Facebook posts about sexual misconduct**, *Feb 2018* (with Adam Hughes and Patrick Van Kessel)
- **After Las Vegas attack, Democrats in Congress were far more likely than Republicans to mention guns on Facebook**, *Oct 2017* (with Brad Jones, Dennis Quinn and Solomon Messing)
- **Highly ideological members of Congress have more Facebook followers than moderates do**, *Aug 2017* (with Adam Hughes)
Covered by: R-Blogger

Conferences and Invited Talks

- **2019**: APSA, AAPOR, ICA, IC2S2, World Bank, JP Morgan Chase Institute.
- **2018**: APSA, APSA Computational Social Science Pre-Conference.
- **2016**: Tobin Project

AWARDS AND FELLOWSHIP

- Tobin Graduate Student Fellowship, *2016*
- Frontiers of Innovation Scholars Program Project Fellowship, *2015*
- UCSD Graduate Summer Research Fellowship, *2013, 2014*
- UCSD Department of Economics CPhil Fellowship, *2013*
- University of Tokyo Best Student Award, *2012*