

Eric G. Zhou

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2 Shore Lane Apt. 310, Jersey City, NJ 07310

EDUCATION

Wagner School of Public Service, New York University, New York, NY, USA *Sep. 2019 - present*

Ph.D. student in Public Administration with a focus in Health Economics

Adviser: Brian Elbel

Harris School of Public Policy, University of Chicago, Chicago, IL, USA *Aug. 2017-March. 2019*

M.A. in Public Policy Analysis (pre-phd program)

Adviser: David Meltzer

Harvard T.H. Chan School of Public Health, Boston, MA, USA *July – Aug. 2018*

Specialized training in Health Economics and Epidemiology

New York University, New York, NY, USA *Jan. 2017*

M.A. in Applied Quantitative Research

Xiamen University, Xiamen, Fujian, China *June 2015*

LLB in Sociology

Research interests: Health Policy, Health Economics, Applied Econometrics, Causal Inference

Programming language: Stata, R, Python, Latex

Coursework highlight: Harris School Ph.D. core series in Econometrics, Microeconomics, Game theory

RESEARCH EXPERIENCE

Graduate Research Assistant

Three Million Words Research Center, University of Chicago Hospital, Chicago IL *05/2018 – 05/2019*

- Perform multiple imputation, sample-selection modeling for missing values of longitudinal survey data
- Conduct advanced data-analysis such as sensitivity analysis, maximizations of Markov Chains, and Bayesian inference with semi-parametric estimations

Research Assistant for Dr. David Meltzer

Section of Hospital Medicine, University of Chicago Hospital, Chicago IL *08/2017 – 06/2019*

- Lead the analytical work of several research projects sourcing data from the EMR(Epic) system, Premier billing database & patient surveys
- Maintain, improve the analytical workflows of the Hospitalist and CCP study using advanced Stata programming
- Automates the production of progress report with visualizations to monitor and prioritize staff productivity

Graduate Research Associate

Office of Institutional Research, Administrative Services of New York University 11/2016 – 03/2017

- Prepared and reorganized 13-million row data otherwise not utilized by the research team
- Analyzed institutional data using DID, RD and IV methods to advise the enrollment management

Graduate Research Assistant

Law School of NYU, New York, NY 04/2016 - 07/2016

- Analyzed nationally representative & US Census datasets to conduct quantitative research
- Participated in composing [the State of Black Immigrant](#) Report

Research Associate

Institute of Sociology, Chinese Academy of Social Sciences, Beijing, China 07/2014 - 11/2014

- Participated in composing *Society of China Analysis and Forecast (2014)*, the Blue-book of Chinese Society
- Managed and edited the largest online [Sociology platform](#) in China
- Cleaned and managed nationally represented database for three national level projects

Research Assistant

Department of Sociology and Environmental Science, Xiamen University 04/2014-06/2014

- Collected and analyzed spatial & environmental data from Xiamen City
- Contributed to the project-based publication: *Socio-Spatial Distribution of Environmental Risk in Population (Journal of Xiamen University, No.3, 2014)*

WORKING PAPERS

Eric G. Zhou, Assessing the value of racial concordance in healthcare – evidence from the UC hospital Emergency Department, 2018

Maya Lozinski, **Eric G. Zhou**, Payment schedule and physician billing incentives – a case study of hospital policy change, 2018

RESEARCH PROJECTS

A reexamination of the physicians' responsibility for the hospitalized patients through the construction of clinical timeline

Leading collaborative research project advised by Prof. David Meltzer, CHESS, UC Medicine current

Using the Markov Model and Natural Language Processing technique, the project aims at combining all data relevant to a hospitalized patient's clinical events, and to automatically construct the clinical timeline illustrating a seamless sequence of events that determines the share of responsibility for each member of the treatment team. The designed algorithm extracts the information from Epic (EMR), ProFeeCube (provider billing data), UC Hospital Billing System (hospital billing), and the physician schedule data, which are reorganized to correspond the quality measurement metrics and to watch for potential code violations of clinical practice.

Comparative Efficacy and safety of Warfarin and New Oral Anticoagulants in combination with P2Y12 inhibitor after the PCI – Evidence from a National claims database 08/2018

Collaborative research project advised by Prof. Sebastian Schneeweiss at the Harvard T.H. Chan School

The retrospective cohort study focuses on the comparative efficacy and safety outcomes of the patients who were prescribed Warfarin or New Oral Anticoagulants (NOAC), after undergoing PCI and adhering to the P2Y12 inhibitor. The study takes the advantage of the 2.7 million patients' billing database and utilized the multiple propensity score matching methods. Results show slightly better safety outcomes (broadly defined bleeding reported bleeding events) for the NOAC usage patients.

Effect of the gubernatorial appointment on Senate election outcome -- Evidence from the US Senate Special Election

Independent research project advised by Prof. Anthony Fowler at the University of Chicago 06/2018

With the extensive literature on the incumbency advantage in the US electoral college, whether the Senate incumbent appointed by the Governor rather selected electorally still has an advantage remains unknown. The study utilized a Fuzzy RD design to examine the effect of the temporary personal incumbency appointed by barely elected governor on election outcome, had the incumbent chose to reelect in the subsequent US Senate election. The estimates were found sensitive to the model specifications, yet the study provided the preliminary evidence that the effect of gubernatorial appointment on the subsequent Senate election is likely to be negative.

The Effect of Food Stamps Usage on Children's PPVT Score 03/2016 – 05/2016

Collaborative research project in the graduate-level course: Data Analysis by Prof. Amanda Geller

The article verifies the effect of food stamp usage on PPTV score of the children aged 3 to 5 from a [fragile family](#). Since the nutrition is widely considered to be crucial for cognitive growth, and the food stamp policy was designed to alleviate the financial burden on buy groceries. Whether the recipient families would have a better cognitive outcome is the key research question for both policy makers and social science researchers. Propensity score matching and multivariate regression analysis was used to conduct the study. Results found no significant effect of food stamps, nor interaction effects of race.

AFFILIATIONS, ACTIVITIES & TRAINING

Thirty Million Words Center for Early Learning and Public Health	2018 - present
The Center for Health and the Social Sciences (CHESS), University of Chicago	2017 – present
APPAM conferences	2017, 2018
Ph.D. workshop, Harris School, Booth and Econ department, University of Chicago	2017 - present
Inequality workshop, Harris School	2017 - present
Math Camp, Harris School of Public Policy	Sep. 2017