

CONTACT INFORMATION	Stanford Graduate School of Business 655 Knight Way BC 234H Stanford, CA 94305	Phone: (717)462-8204 Email: thyu538@gmail.com Website: tomhsyu.com
EDUCATION	<p>Stanford University Stanford, CA Ph.D. in Political Economy 2017-2019, 2021-2024 (March 2024 Graduation) Dissertation University Chair: <i>Matthew Gentzkow</i> Dissertation Committee Members: <i>Neil Malhotra, Ken Shotts, David Broockman</i> M.S. in Statistics 2021-2023 Primary Advisor: <i>Percy Liang</i></p> <p>Middlebury College Middlebury, VT B.A. in Economics, minor in Political Science, <i>Summa Cum Laude</i> 2012-2016 Class Salutatorian</p>	
SKILLS	<p>Programming: R, Python, SQL (Advanced), AWS, Mathematica, Stata, C++ (Intermediate) Packages: Scikit-Learn, Pandas, Scipi, Numpy, TensorFlow, Keras, Matplotlib Technical: Causal Inference, Adaptive Experiment (Bayesian Optimization), A/B Testing, Machine-Reinforcement Learning, Natural Language Processing, Survey Research Methods, Game Theory</p>	
EMPLOYMENT 3+ YEARS	<p>Experimentation and Causal Inference Intern, Netflix Los Gatos, CA; Summer 2023 · Developed methods for mitigating non-response bias (via inverse propensity score weighting methods) and improving the representativeness (via entropy balancing) of the large-scale survey data. · Implemented ML models – GBM, RandomForest, and other ensemble models – to predict survey ratings from users, the prediction of which was leveraged to guide business decisions on objective quality metrics. · Received the hiring recommendation.</p> <p>Data & Insights Attaché, Republic of Korea Air Force Seongnam, Korea; 2019-2021 · Designed and fielded a survey for 5,000 enlistees’ mental well-being during the COVID lockdown in the airbase and analyzed them for the airbase commander’s office. · Proposed a base-wide experiment (RCT) for combating the depression issue in the base via incentivized limitation of the cell phone usage during the off-duty hours.</p> <p>Summer Associate, Yozma Group (VC) Seoul, Korea; Summer 2019 · Collected and analyzed the financial statement data of over 200 public companies listed in KOSDAQ to construct a benchmark for evaluating values of sourced startups. · Spearheaded the launch and conducted due diligence for an international fund (\$200M USD) with a portfolio of startups in Israel, South Korea, and China.</p> <p>Analyst, Analysis Group (Econ. Consulting) Denver, CO; Summer 2015, 2016-2017 · Applied econometric and causal inference methods (Diff-in-Diff and IV) to address the client’s request to identify the macroeconomic benefits facilitated by their core product in Latin American countries. · Implemented a PDF-scraping method on Python to expedite the computation of profit damages and conducted over 150 hours of due diligence for an intellectual property case.</p>	

WORKING PAPERS	Best-Arm Identification in Survey Experiments: Multi-Armed Bandit Algorithms Adaptive Survey Experiment, Bandit Algorithms, Best-Arm Identification	
	Predicting Roll Call Votes using Machine Learning Methods with <i>Floyd Jiuyun Zhang</i> US Congress Roll Call Votes, Machine Learning – Ensemble Method	
	Analyzing the U.S. Bill Texts: a Deep Learning Approach with <i>Hyoungju Seo</i> US Bill Preamble Texts, Deep Learning – CNN-LSTM, Word & Character Embedding	
TEACHING EXPERIENCE	Electoral Insecurity & Federal Spending Procurement: Causal Inference with Panel Matching and Synthetic Control Methods Panel Matching, Synthetic Control Methods, Difference-in-Differences	
	GSBGEN 675: Microeconomic Theory (Ph.D.)	Fall 2021, 2022
	Ph.D. level course based on material from Mas Colell & Whinston & Green (MWG). Instructor: Prof. Dana Foarta <i>Median (Average) student rating of TA: 5.0 (4.9) / 5.0</i>	
	POLISCI 153Z: Strategy – Introduction to Game Theory	Summer 2022
	Undergraduate level game theory course that covered basic concepts from Nash equilibrium to perfect Bayesian equilibrium. Instructor: Prof. Avidit Acharya <i>Median (Average) student rating of TA: 5.0 (4.5) / 5.0</i>	
SERVICE TO THE JOURNALS	MGTECON 200: Managerial Economics (MBA)	Winter 2022
	MBA introductory microeconomic theory course that covers demand, auction, moral hazard, adverse selection, and game theory. Instructor: Prof. Weijie Zhong <i>Median (Average) student rating of TA: 5.0 (4.6) / 5.0</i>	
FELLOWSHIPS, HONORES, AND GRANTS	Referee for: <i>American Journal of Political Science, Research & Politics</i>	
	Stanford American Democracy Fellowship Award (\$2K)	2023
	Stanford Ethics, Society, and Technology Hub Research Grant (\$10K)	2023
	Institute for Humane Studies Research Grant (\$2.5K)	2023
	Stanford GSB PhD Fellowship	2017-19, 2021-Present
	Phi Beta Kappa	2015