
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	Stanford University Ph.D. in Political Economy Dissertation Committee Members: <i>Neil Malhotra, Ken Shotts, David Broockman</i> M.S. in Statistics Primary Advisor: <i>Percy Liang</i>	Stanford, CA 2017-2019, 2021-2023 (December Expected) 2021-2023
	Middlebury College B.A. in Economics , minor in Political Science, <i>Summa Cum Laude</i> Class Salutatorian	Middlebury, VT 2012-2016
SKILLS	Programming: R, Python (Advanced), Spark SQL, Mathematica, Stata, C++ (Intermediate) Markup / Visualization: \LaTeX , Markdown, Adobe InDesign	
EMPLOYMENT	Experimentation and Causal Inference Intern, Netflix Los Gatos, CA; Summer 2023 <ul style="list-style-type: none"> · Developed methods for mitigating non-response bias (via inverse propensity score weighting methods) and improving the representativeness (via raking and entropy balancing) of the survey data. · Implemented ML models trained to predict survey ratings from users, the prediction of which was leveraged to guide business decisions on objective quality metrics. · Collaborated with engineering and design stakeholders from various sister teams for refining and applying survey-based metrics. · Received the hiring recommendation. Teaching Assistant, Stanford University Stanford, CA; 2021-Present <ul style="list-style-type: none"> · Constructed course materials on topics in microeconomics and game theory for PhD and MBA students and received a median TA rating of 5.0/5.0. Summer Associate, Yozma Group (VC) Seoul, Korea; Summer 2019 <ul style="list-style-type: none"> · Spearheaded the launch and conducted due diligence for an international fund (\$200M USD) with a portfolio of startups in Israel, South Korea, and China. · Drafted and presented the investment memo for LPs including the National Pension Service in South Korea. Analyst, Analysis Group (Econ. Consulting) Denver, CO; Summer 2015, 2016-2017 <ul style="list-style-type: none"> · 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. · Conducted over 150 hours of due diligence for an intellectual property case and implemented a PDF-scraping method on Python to expedite the computation of profit damages. 	
RESEARCH INTERESTS	Causal Inference, Experiment Design, Machine-Reinforcement Learning, Survey Research Methods, Game Theory	

WORKING PAPERS	<p>Finding the Best Arm: Multi-Armed vs. Contextual Bandits with <i>Apoorva Lal</i> Adaptive Survey Experiment, Bandit Algorithms, Best-Arm Identification</p> <p>Electoral Insecurity & Federal Spending Procurement: Causal Inference with Panel Matching and Synthetic Control Methods Panel Matching, Synthetic Control Methods, Difference-in-Differences</p> <p>Status Perception and Populism among Low & Middle-Income White Americans Formal Theory, Randomized Survey Experiment</p> <p>Predicting Roll Call Votes using Machine Learning Methods with <i>Floyd Jiuyun Zhang</i> US Congress Roll Call Votes, Machine Learning – Ensemble Method</p>
TEACHING EXPERIENCE	<p>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></p> <p>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></p> <p>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></p>
SERVICE TO THE JOURNALS	Referee for: <i>American Journal of Political Science, Research & Politics</i>
MILITARY SERVICE	<p>Republic of Korea Air Force Seongnam, Korea <i>Enlistee Representative, Airbase Commander’s Office</i> 2019-2021</p>
FELLOWSHIPS, HONORES, AND GRANTS	<p>Stanford American Democracy Fellowship Award (\$2K) 2023</p> <p>Stanford Ethics, Society, and Technology Hub Research Grant (\$10K) 2023</p> <p>Institute for Humane Studies Research Grant (\$2.5K) 2023</p> <p>Stanford GSB PhD Fellowship 2017-19, 2021-Present</p> <p>Phi Beta Kappa 2015</p>