

Yuge Hao

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EDUCATION

The University of Arizona (Tucson, AZ) <i>PhD in Economics</i>	August 2017 - May 2022 (expected) GPA: 3.8/4.0
Duke University (Durham, NC) <i>MA in Economics</i>	August 2015 - May 2017 GPA: 3.6/4.0
Southwestern University of Finance and Economics (Chengdu, China) <i>BS in Math, BA in Economics</i>	August 2011 - May 2015 GPA: 91/100

SKILLS

- Causal Inference, Machine Learning, A/B Testing, Structural Estimation; R, STATA, MATLAB, Python, SQL, L^AT_EX
- Language: Chinese Mandarin (native), English (fluent)

RESEARCH PAPERS

PrEP, Risky Sexual Behaviors and STDs (Job Market Paper)

- Used a difference-in-difference model to estimate the casual effect of PrEP on individual's risky sexual behaviors.
- Applied high-dimension fixed effects method on a large panel dataset and confirmed PrEP caused more risky sex.
- Results showed PrEP leads to moral hazard problem: more unprotected sex, more sexual partners, less likely of a main partner. As a result of moral hazard, PrEP users are more likely to contract other STD such as syphilis.

The Early Bird Gets the Worm: Strategic timing to live-stream on Huya.com

- Examined the effect of live streamers' timing pattern to go online on their success on video game live streaming platform.
- Built a competition model predicting live streamers' optimal behaviors of going online as benchmark to real data.
- Results showed live streamers exhibit over (under) competition and decreased (increased) profits in rush (slow) hour, drawing policy implications for success of live streamers and sustainable growth of the platform.

Time Heals All Wounds? Childhood Maltreatment and Mental Health

- Analyzed the causal effect of childhood maltreatment on mental health using a diff-in-diff design with Add Health data.
- Designed a metric of mental health as a summery index to address the overrejection concern due to multiple testing.
- Results showed childhood maltreatment imposes long-lasting negative effect on mental health up to adulthood. Females are more vulnerable to maltreatment and multiple forms of maltreatment imposes worse effects than single form.

WORK EXPERIENCE

Southwestern University of Finance and Economics <i>President of The Student Union</i>	July 2013 - June 2014
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- Responsible for management of 10 departments and 70 members. Organized and oversaw multiple university-wide events: Math Culture Festival, Freshmen Welcome Gala, the Opening Ceremony Show of the annual sports tournament, etc.

Duke University, <i>Research Assistant to Prof. Modibo Sidibe</i>	June 2016 - May 2017
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- Processed a large panel dataset of French employees to better understand labor migration model with mobility friction.
- Wrote R script and ran numeric simulation to estimate parameters of a dynamic job search model using MLE.
- Elicited individual risk aversion and discount rate with large experimental lotteries choice dataset by MLE and bootstrap.

The University of Arizona <i>Instructor, ECON 200: Basic Economic Issues</i>	June 2019, Jan 2021
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- Developed syllabus, course materials and evaluation policies for a class of 25. Taught both in-person and live-online.
- Provided introduction to microeconomics and macroeconomics to non-econ-major audience, and taught students tools to understand basic economic ideas and how to apply their learning to analyze economic applications in everyday life.

AWARDS

- China National Scholarship, 2013 (highest undergraduate honor in China, top 0.2%)
- Duke M.A. Merit Scholar Award, Spring 2016, Fall 2016 (merit based on GPA)
- University of Arizona Department of Economics Travel Grants, 2018-2021

HOBBIES

- Horror Movies, Rock Climbing, Cats Watching, Chinese Cooking, Mahjong, Mobile MOBA Games