

Shan He

Department of Economics, University of Illinois at Urbana-Champaign

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EDUCATION BACKGROUND

University of Illinois at Urbana-Champaign (UIUC) <i>Ph.D. Candidate in Economics</i>	Aug. 2017 - Present
University of Illinois at Urbana-Champaign (UIUC) <i>M.S. in Economics</i>	Aug. 2016 - May. 2018
South China University of Technology <i>B.A. in Economics</i>	Sept. 2012 - June. 2016

RESEARCH INTERESTS

Public Economics; Environmental and Energy Economics

WORKING PAPERS

Firm Scope and Business Stealing in WA's Privatized Liquor Market (third year paper)

Correcting Market Failures with a 'Durability Gap' (with Don Fullerton). NBER Working Paper 29073; CESifo Working Paper No.9171; **Revise and Resubmit, JAERE**

Circular Economy: Are We Going in Circles? (review paper, with Fernanda Cruz Rios et al. **Submitted, Nature Sustainability**

Introducing the Circular Economy to Economists (review paper, with Don Fullerton et al). **Submitted, ARRE**

WORKING IN PROGRESS

The Value of Durability in the Adoption of Energy Efficient Products: Evidence from the Lightbulb Market
Second Best Optimal "Green Design" in the Circular Economy (with Don Fullerton)

RESEARCH EXPERIENCE

University of Illinois at Urbana-Champaign (UIUC) <i>Research assistant for Professor Don Fullerton</i>	Aug. 2019-Present
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- Work on NSF collaborative research project: "Convergence around the Circular Economy".

University of Illinois at Urbana-Champaign (UIUC) <i>Research assistant for Visiting Professor Ziyi Qiu</i>	Jan. 2019-May. 2019
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- Dived into applied econometrics methodologies: differences in differences, regression discontinuity, IV, propensity score matching.

South China University of Technology <i>Team leader of the project "A new method for eradicating Ebola virus (MCM)"</i>	Feb. 2015
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- Modeled earth as a two-dimensional plane domain covered by grids, and built the simulation model of Ebola virus' transmission with the method of cellular automation in C++.
- Built a network of drug delivery on the simulated model and calculated the range of curability.

TEACHING EXPERIENCE

ECON 474: Econometrics of Policy Evaluation <i>Teaching Assistant</i>	Aug. 2020-May. 2021
ECON302 Intermediate Microeconomics <i>Teaching Assistant</i>	Jan. 2020-May. 2020
ECON102 Microeconomics Principles <i>Teaching Assistant</i>	Aug. 2019-Dec. 2019
ECON 535 Microeconomics for Business <i>Teaching Assistant</i>	Aug. 2016-May. 2017

WORK EXPERIENCE

Facebook, Inc., U.S. <i>Data Scientist Intern</i>	May. 2021-Aug. 2021
<ul style="list-style-type: none">• Improved a segmentation framework: investigated a segment clustering model and proposed model adjustment.• Evaluated key metrics by segment, segment tool adoption, segment migration and segment life stages to inform product prioritization and targeting strategy.• Employed the analysis results from segmentation to guide UX researchers designing customer surveys.	
MassMutual Asia Ltd., Hong Kong <i>Market Data Analyst Intern</i>	June. 2013-Aug. 2013
<ul style="list-style-type: none">• Assisted the marketing staff to expand business of Asia-Pacific Markets, wrote the marketing report for Universal Life.• Completed a data research on the investment funds industry within 72 hours, wrote a statement of product positioning and built a matrix model.• Assisted the department manager to do market surveys; conducted questionnaire investigation on reliability and validity of product among 120 clients who bought the MassMutual insurance products.	

TECHNICAL STRENGTH

R (advanced), SQL (advanced), STATA (advanced), Latex (advanced), Python (intermediate), MATLAB (intermediate), C++ (basic).

AWARDS & HONORS

Member of Phi Kappa Phi Honor Society, rank top 10%	<i>May. 2018</i>
Honorable Mention in Mathematical Contest in Modeling, COMAP	<i>Feb. 2015</i>