KEREN (COLIN) FANG

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PLACEMENT CONTACT

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EDUCATION

- **University of California, Riverside** **2020-June 2026**

  PhD, Economics, Department of Economics
  Dissertation: *Inference for Moment Inequalities with Nuisance Functions*

- **Australian National University** **2016-2018**

  Master of Applied Economics with Merit, Research School of Economics

- **University of California, Berkeley** **2015**

  Summer Session

- **Macau University of Science and Technology** **2012-2016**

  B.B.A., Finance, School of Business

RESEARCH INTERESTS

- **Primary fields: Econometric Theory, Partial Identification**
- **Secondary fields: Microeconomic Theory, Industrial Organization**

JOB MARKET PAPER

- ***Inference for Moment Inequalities with Nuisance Functions (Under Review at Journal of Econometrics)***

Abstract: This paper proposes a conceptually novel semiparametric model formulated by moment inequalities, which involve partially identified finite-dimensional parameters of interest and point identified infinite-dimensional nuisance parameters. We propose a reparametrized GMM condition to obtain the variance estimator by a corresponding influence function. We partially identify the parameters of interest through their confidence set. We establish the uniform bootstrapping consistency and the uniform asymptotic size control for the constructed confidence set. We illustrate the method by a structural entry game model with partially identified state-dependent interaction effects, where the true conditional choice probabilities serve as the nuisance functions.

WORKING PAPERS

- ***Random Aspiration under Limited Attention (joint with Dayang Li)***

Abstract: We study stochastic satisficing when a decision maker perceives part of a menu, draws an aspiration, and chooses the first acceptable alternative on a ranked list. Ranking selection weakly favors her fixed preference. We characterize the resulting choice rules by acyclicity of frequency comparisons and rejection in menus that cannot be reduced without changing choice. This condition also yields sharp restrictions on preference and perceived menus, including perception of alternatives that are never chosen. Aspiration and ranking are generally confounded, although some choice rules require random aspirations. When rankings are controlled and the consumer is fixed, a first-position response identity and the same acyclicity condition characterize behavior across lists and menus.

WORK IN PROGRESS

- ***Adaptive Test for Conditional Moment Inequalities with Nuisance Functions***

Abstract: This paper develops an adaptive testing method to construct confidence sets for partially identified finite-dimensional parameters of interest from conditional moment inequalities, which may involve point identified infinite-dimensional nuisance parameters. The conditional moment inequalities are transformed into unconditional moment inequalities by Hoeffding decomposition. The test requires no simulation for critical values and thereby is fast to construct the confidence set of parameters of interest by test inversion. The test controls the uniform asymptotic size.

- ***Identification and Estimation of Moment Inequalities***

SEMINAR AND CONFERENCE PRESENTATIONS

2026 University of Wisconsin–Milwaukee; NASM2026 (Emory University);

2025 University of California, Riverside

PROFESSIONAL ACTIVITIES

Member of Econometric Society

TEACHING EXPERIENCE

- **Teaching Assistant, University of California, Riverside**

  ECON 002 Introduction to Macroeconomics
  (Winter and Spring 2022, Summer 2023, Spring and Summer 2024)
  ECON 101 Statistics for Economics (Fall 2022, Winter 2025)
  ECON 102 Intermediate Microeconomics (Fall 2021)
  ECON 104A Intermediate Microeconomic Theory (Spring 2025)
  ECON 104B Intermediate Microeconomic Theory II (Winter and Spring 2023)
  ECON 107 Introductory Econometrics (Fall 2023, Winter 2024, Fall 2024, Fall 2025)

AWARDS

Dissertation Completion Fellowship Award, University of California, Riverside	2026
Dissertation Program Fellowship, University of California, Riverside	2025
Dean's Distinguished Fellowship, University of California, Riverside	2020
First Prize for the Cultural and Academic Excellence, Macau University of Science and Technology	2016
Champion of Global Management Challenge (Macau S.A.R.)	2015
Dean's List, Macau University of Science and Technology	2013–2016

SOFTWARE SKILLS

MATLAB, Stata, R, EViews, Microsoft Office and LaTeX.

LANGUAGES

Chinese Mandarin (native), English (fluent), Chinese Cantonese (basic), French(basic)

REFERENCES

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