

Guo Mia Bai

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EDUCATION

University College London (UCL)

PhD in Economics

Supervisors: Prof Martin Cripps, Dr Deniz Kattwinkel, Prof Konrad Mierendorff

London, UK

Expected 2023

University College London (UCL)

MSc in Economics (Distinction)

London, UK

November 2016

University of Liverpool

BSc in Economics (First Class)

Liverpool, UK

July 2015

RESEARCH

Interests

Microeconomic theory, information acquisition and learning.

Working papers

Private Information Acquisition and Preemption: a Strategic Wald Problem

Job Market Paper

This paper introduces strategic preemption motives into a dynamic information acquisition model. Two players can acquire costly information about an unknown state before taking an irreversible safe or risky action. The risky action gives the players a higher payoff than the safe action only in the high state and there is a first-mover advantage associated with it. The competition is private as the action taken and the information acquisition are not observable. Examples include market entry, R&D races and priority races in research. I show that, depending on prior beliefs, information acquisition can be a strategic complement or a strategic substitute. When the players have sufficiently uncertain prior beliefs, multiple equilibria, where players use the random stopping strategy, can be sustained.

Linear Search or Binary Search: Time Risk Preferences and Pool Sizes

This paper studies how time risk attitude and patience level affect an agent's optimal choice of a sequence of pooled tests within a dynamic single agent's model. To disentangle the effects of time risk attitude and the patient level, I consider a generalized expected discounted utility function. I show that when the agent's prior belief is uniform, only Linear Search or Binary Search can be optimal. All other sequences of the tests are suboptimal. The optimality of the sequence of linear searches or binary searches depends on the tradeoff between the time risk attitude and the patience level.

TEACHING EXPERIENCES

Teaching Assistant, UCL

Economics of Information

Game Theory

Economics

Microeconomics

Behavioural Economics

Gower Street, London

2019, 2020-2022

2017, 2020, 2021

2021

2017, 2018

2017

RESEARCH POSITION

Research Assistant, UCL, Dr Nikita Roketskiy

2019-2020

REFERENCES

Prof Martin Cripps
University College London

Department of Economics
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Dr Deniz Kattwinkel
University College London

Department of Economics
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Prof Vasiliki Skreta
University of Texas, at Austin,
UCL and CEPR
Department of Economics
vskreta@gmail.com

MISCELLANEOUS

Awards: Brian Hillier Memorial Prize (University of Liverpool)

Technical Skills: Experienced with MATLAB, STATA and LaTeX.

Languages: English (Fluent), Mandarin Chinese (Native).