

SITING (ESTÉE) LU

PhD Student in Economics, The University of Edinburgh

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EDUCATION

PhD Student in Economics, The University of Edinburgh

Research Interest: Behavioural Economics, Game Theory, Searching and Matching, Adaptive Learning

Supervisors: Prof. Ed Hopkins & Dr. Axel Gottfries

 Oct 2020 –

 Edinburgh, United Kingdom

MSc Economics, Scottish Graduate Programme in Economics, The University of Edinburgh


Dissertation focus on Behavioural Game Theory

 Sept 2018 – Aug 2019

 Edinburgh, United Kingdom

Bachelor of Social Sciences with Honours in Economics, National University of Singapore

Specialized in Applied and Policy Economics

 Aug 2012 – June 2016

 Singapore

CURRENT RESEARCH PROJECTS

Costly Job Search with Inattentive Workers


Keywords: Rational Inattention, Partially Directed Search

 Oct 2024

Incomplete information in the labour market remains an issue as workers can be inattentive and face decision on how much information to acquire and process before applying to jobs. This research aims to extend existing partially directed search model to account for diverse priors, multiple equilibria and heterogeneous attention costs.

Strategic Interactions between Large Language Models-based Agents in Beauty Contests

Keywords: Large Language Models, Competitive Games

 Apr 2024

The growing adoption of large language models (LLMs) presents potential for deeper understanding of human behaviours within game theory frameworks. This research examines strategic interactions among multiple types of LLM-based agents in a classical beauty contest game. The simulated results from variations of set-ups not only convey potential human behaviours, but also offer valuable understanding of strategic interactions among algorithms.

Evolution of Labour Market Mismatch through Adaptive Learning with Experience

Keywords: Adaptive Learning, Coordination, Job Search

 Work in Progress

This research provides an evolutionary perspective to job search. It uses reinforcement learning models in a multi-agent setting to study how workers' application behavior change given past experiences or knowledge diffusion, and if they could learn to effectively coordinate in both stationary and dynamic environments.

WORKING PAPERS

Economics Arena for Large Language Models (with Shangmin Guo, Haoran Bu, Haochuan Wang, Yi Ren, Dianbo Sui, Yuming Shang), 2024

Status Signalling with Luxury and Cultural Goods, 2020

TEACHING EXPERIENCE

The University of Edinburgh

 Sep 2020 –

 Edinburgh, United Kingdom

Tutor, School of Economics.

ECNM08004 - Economic Principles (2020)

ECNM08013 - Economics 1 (2021, 2023, 2024)

ECNM08016 - Statistical Methods for Economics (2024)

ECNM10066 - Behavioural Economics (2022, 2023, 2024)

WORKING EXPERIENCE

Scottish Fiscal Commission

📅 Nov 2019 – May 2020

📍 Edinburgh, United Kingdom

Fiscal Analyst (Fixed Term). – Property Tax, Fiscal Forecasting

International Data Corporation Asia Pacific

📅 Jan 2018 – Jul 2018

📍 Singapore

Market Analyst in Big data, AI/Cognitive Computing Research. – Competitive Analysis, AI Consulting

Datarama Technology Pte Ltd

📅 Jun 2016 – Jan 2018

📍 Singapore

Research Analyst. – Data Sourcing, Data Architecture Design, Database Management, Risk Rating

SUMMER SCHOOLS/CONFERENCES/WORKSHOPS

1st Summer School in Experimental and Behavioral Economics, European Economic Review, Poster Presentation, 2024

Cognitive Foundations of Decision-Making Summer School (RISL $\alpha\beta$), Oral Presentation, 2024

FUR Conference: Foundations of Utility and Risk, Oral Presentation, 2024

The 33rd Advanced School in Economic Theory: Imperfect Cognition and Economic Behaviour, Poster Presentation, 2023

The 2nd Summer School of Computational and Experimental Economics (BESLab), 2023

SABE-IAREP Conference, Oral Presentation, 2023

10th Toulouse Economics and Biology Workshop, Poster Presentation, 2023

Toulouse Summer School in Quantitative Social Sciences, 2023

5th QMUL Economics and Finance Workshop for PhD & Post-doctoral Students, Oral Presentation, 2023

SGPE PhD Conferences, Oral Presentations, 2021 & 2023 & 2024

University of East Anglia Behavioral Game Theory Summer School, 2022

15th Annual International Symposium on Economic Theory, Policy and Applications Program, Oral Presentation, 2020

HONOURS & AWARDS

Shortlisted for Student Tutor of the Year, Teaching Awards 2024

The Scottish Economic Society Small Grants, 2023

Research and Training Scholarship, University of Edinburgh, 2020-2024

MISCELLANEOUS

Programming Python, \LaTeX , Mathematica, STATA, SQL - MS SQL, R (Basic), MongoDB (Basic), Neo4j (Basic), IBM i2 (Basic)

Certificates DELF B1 and B2 French Attestation de Reussite, Financial Risk Management I

Languages English, Mandarin Chinese, French (Intermediate, B2), German (Basic, A1)

Citizenship Singapore

REFERENCES

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