

Hengrina Ly

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Education

University of Rouen Normandy & ENS Paris-Saclay 2022 – Present
PhD Candidate in Economics

Paris-Saclay University 2020 – 2022
MSc in Economics

Research Interests

Game Theory, Market Design, Microeconomic Theory, Applied Theory, Numerical Methods

Research Experience

PhD Research October 2022 – Present
Supervisors: Vincent Iehlé (University of Rouen Normandy), Olivier Bos (ENS Paris-Saclay)

- *Strategic Consumption within Renewable Energy Communities under the French Default Rule*
Formulates Renewable Energy Communities (REC) as a Bayesian game to analyze strategic consumption under the French default sharing rule. Shows that equilibrium consumption may differ from predictions in the existing literature when agents have private information about true energy needs.
- *Design of Sharing Rules for Renewable Energy Communities* (joint with Vincent Iehlé and Julien Jacqmin)
Develops a formal mathematical framework to analyze and compare sharing rules implemented across different countries, focusing on efficiency and incentive properties.
- *Market Design for Procurement Auctions with Costly Bid Preparation*
Proposes a modified procurement auction where quantity is the key decision variable. Uses numerical methods to study the impact of auction quantity on efficiency and expected revenue.
- *Taxes, Expropriation Risk, and Investment* (joint with George Lukyanov)
Develops a two-period reputation model in which households infer government type when making investment decisions. Shows that higher initial taxation can reduce individual investment while increasing aggregate participation, and that higher productivity relaxes government commitment constraints.

Teaching Experience

- Undergraduate Tutorials (L1): *Algèbre linéaire*, 125 hours 2026 – Present
- Undergraduate Tutorials (DL2): *Introduction to Economic Modeling and Game Theory*, 10 hours 2025 – Present

- Graduate Tutorials (M1): *Microéconomie avancée*, 48 hours 2023 – Present

Presentations

- 3rd Conference on Decentralized Energy Systems, Paris School of Economics, June 2025
- 4th Paris-Saclay Economics PhD Meetings, RITM, May 2025
- 3rd Paris-Saclay Economics PhD Meetings, PSAE, May 2024
- CEEM 2nd PhD Conference, Université Paris Dauphine, April 2024

Awards and Honors

Funding

- PhD Fellowship, University of Rouen Normandy 2022–2025
- French Government Scholarship 2020–2022

Awards

- Cambodian National Baccalaureate Examination, Mention: Excellent (require scoring at least 90% of the total scores), August 2015
- Participation in National Physics Competition of Cambodia (Senior Middle School), April 2012
- Winner, Cambodian Regional Physics Competition (Senior Middle School), February 2012
- Winner, Physics Competition of January 10, 1979 High School (8th grade), January 2011

Service and Volunteering

- Organizing Committee, 2nd Conference on Decentralized Energy Systems, Rouen 2024
- Treasurer, Association Polytechniciens Khmers, Paris 2022 – 2023
- Member, Association Polytechniciens Khmers 2017 – Present
- Member, Binet X-Khmer, École Polytechnique 2017 – 2020
- Member of Student Council, International School of Schaffhausen, Switzerland 2016 – 2017
- Member, Cambodian Red Cross Association 2014 – 2015

Technical Skills

Programming: Python, C++ (basic), Julia (basic)

Software: LaTeX, Stata, Microsoft Office

Languages

English (Fluent)

French (Intermediate)