

Fengming Hu

Cooper 400, Faculty of Data and Decision Sciences, Technion
fengming.hu@campus.technion.ac.il

Education

Technion - Israel Institute of Technology, Haifa, Israel

Ph.D. in Economics

December 2023 - Present

Main Advisor: Rann Smorodinsky

Co-Advisor: Ronen Gradwohl (Department of Economics, University of Haifa)

Thesis: Robustness in Models of Strategic Information Transmission

M.Sc. in Electrical Engineering

October 2020 - November 2023

Advisor: Ariel Epstein

Thesis: Cavity Excited Switched-Beam Metagratings Antennas

Visiting Student

August 2019

Southeast University, Nanjing, China

B.Eng. in Information Engineering

August 2016 - June 2020

Research Interest

Game Theory, Games with Incomplete Information, Strategic Communication

Working Paper

Robustness of Persuasion to Receiver Preferences

joint work with Ronen Gradwohl and Rann Smorodinsky

<https://arxiv.org/abs/2605.28265>, one page abstract published at SAGT 2026

We study the robustness of Bayesian persuasion to (Knightian) uncertainty about the receiver's preferences. We consider two properties: *continuity*, in which only the modeler lacks precise knowledge while the model's predictions are nonetheless accurate; and *robustness*, in which the sender also lacks precise knowledge, but where the outcome is insensitive to this ignorance. For the latter, we model the sender's behavior as either maximizing worst-case utility or minimizing the regret. We show that the notions are equivalent. In addition, they are equivalent to robustness to tie-breaking. Finally, we show that robustness holds generically.

Awards

Michigan-Israel Partnership for Research and Education Fellowship

Student Research Prize in the funding of Israel Planning and Budgeting Committee (VATAT)

The Lady Davis Fellowship

Honorable Mention in Mathematical Contest in Modeling, MCM/ICM, 2019

First Price in Mathematical Modeling in Jiangsu Province, 2018

First Price in Advanced Mathematics Competition in Jiangsu Province, 2017

Publications During Master's Studies

Cavity-Excited Switched-Beam Metagrating Antennas

<https://ieeexplore.ieee.org/abstract/document/10133070>

Large-Aperture Cavity-Excited Metagrating Antennas for Dynamic Beam Switching

<https://ieeexplore.ieee.org/abstract/document/10171762>

Cavity-Excited Metagrating Antennas with Controlled Frequency Diverse Patterns

<https://ieeexplore.ieee.org/abstract/document/10237940>