LUCA D'AMICO - WONG

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Education

Harvard University — Cambridge, MA
AB in Applied Mathematics/Economics/CS (3.99/4.0 GPA, 4.0/4.0 Concentration GPA) — *Sep. 2020 – May 2024*

Research

Research with Professors David Parkes and Yannai Gonczarowski — May 2023 – Present
Harvard CS Department
- Conducting theoretical CS research on revenue maximization for platform economies.

Research with Professor David Parkes — Jun. 2022 – Present
Harvard CS Department
- Worked on adaptive algorithms for multi-agent reinforcement learning.

Research Assistant for Professor Ed Glaeser — Nov. 2021 – Present
Harvard Economics Department
- Using computer vision models to understand how property aesthetics influence housing prices.
- Conducted literature review and data cleaning/analysis in Python and R for use in upcoming book on prime-aged male joblessness, written by Ed Glaeser, Larry Summers, and Ben Austin.

Research Assistant for Professor Melissa Dell — Jun. 2021 – Present
Harvard BLISS
- Working with Professor Melissa Dell on leveraging deep learning methods to better understand how media dissemination affects public opinion.

Publications/Preprints

- **Luca D'Amico-Wong***, Gary Qiurui Ma*, David Parkes. "Strategic Recommendation: Revenue Optimal Matching for Online Platforms" *AAAI 2024 Student Abstract (Oral)*.
- Melissa Dell, Jacob Carlson, Tom Bryan, Emily Silcock, Abhishek Arora, Zejiang Shen, **Luca D'Amico-Wong**, Quan Le, Pablo Querubin, Leander Heldring. "American Stories: A Large-Scale Structured Text Dataset of Historical U.S. Newspapers." *NeurIPS 2023 (Datasets and Benchmarks Track)*.
- Emily Silcock, **Luca D'Amico-Wong**, Jinglin Yang, Melissa Dell. "Noise-Robust De-Duplication At Scale." *ICLR 2023*.
- Hugh Zhang*, **Luca D'Amico-Wong***, Marc Lanctot, David Parkes. "Easy as ABCs: Unifying Boltzmann Q-Learning and Counterfactual Regret Minimization." *Under review*.
- Lukas Fesser*, **Luca D'Amico-Wong***, Richard Qiu. "Understanding and Mitigating Extrapolation Failures in Physics-Informed Neural Networks." *Under review*.

* (denotes equal contribution)

Teaching

- **CS 136 – Economics and Computation** (Fall 2023)
- **Econ 1011A – Intermediate Microeconomics: Advanced** (CA in Fall 2021, Head CA in Fall 2022 & 2023)
- **CS 50 – Introduction to Computer Science** (Fall 2021)

Clubs

Harvard WiCS (Women in Computer Science) — May 2022-Present
Outreach Co-Director
- Help organize and lead local initiatives in the Greater Boston area targeted at introducing CS to underprivileged communities and minoritized students.
- Co-created a website at www.wics-workshop.com for a yearly WiCS workshop aimed at introducing computer science to young women (≈ 200 registrants).

Skills

Programming Languages: Python, C, Java, OCaml, R, Stata, SQL, HTML/CSS/JS, LaTeX
Languages: English, Italian, Spanish (Conversational fluency)