

LEON MUSOLFF

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• 8+ years experience in economic modeling (focus on industrial organization, esp. online marketplaces)

• 7+ years of coding experience (focus on Python) for data analysis, structural models & machine learning

EDUCATION

Princeton University – M.A. & Ph.D. in Economics

Expected 2022

- Dissertation: Empirical Analysis of Multi-Sided Platforms (Advisor: Prof. Jakub Kastl).
- Coursework: Industrial Organization, Econometrics, Microeconomic Theory, Machine Learning.
- Participated in NBER Digitization Tutorial 2020, 2021 & Machine Learning for Economics SI 2021.

University of Oxford – M.Phil. (Distinction) in Economics

2016

University of Oxford – B.A. (First Class) in Philosophy, Politics & Economics

2014

- Ranked #1 of 247 in both Preliminary and Final Examinations.

RESEARCH (INCLUDING CO-AUTHORED)

Entry into Two-Sided Markets Shaped by Platform-Guided Search (JOB MARKET PAPER)

- Estimated demand & model of “Buybox” recommendations using Amazon data (on HPC cluster).
- Built structural model of entry & pricing (3,500+ lines of code) to assess long-run effect of recommendations.

The Returns To Targeted Sponsored Search (WORK IN PROGRESS)

- Analyzed A/B test run on 200M visitors of large e-commerce platform using SQL, partner company Spark cluster.
- Evaluated heterogeneous impact of advertising exposure with double ML, causal forest (using *EconML*).

Algorithmic Pricing Facilitates Tacit Collusion (TORRES PRIZE)

- Evaluated causal impact of algorithmic repricing on online marketplaces using RDD & exogenous variation.

Detection of Collusive Networks in E-Procurement (WEISS FOUNDATION GRANT)

- Developed & validated novel collusion detection algorithm using co-bidding patterns in 3.9M scraped tenders.

Buying Voters with Uncertain Instrumental Preferences (R&R THEORETICAL ECONOMICS)

- Built game theoretic model of how pivotality considerations enable vote buying.

LEADERSHIP & COMMUNICATION EXPERIENCE

Graduate Teaching Assistant, Princeton University

2018 - 2021

- Taught 150+ students microeconomics; averaged 4.4/5 in evaluations (cmp. department avg 3.9).

President, TEDxOxford

2013 - 2014

- Headed team of 40 & managed budget of \$50k. Organized TEDx conference with 1,800 attendees.

AWARDS & SCHOLARSHIPS

Marimar & Cristina Torres Prize (Ranked #1 of 20 in Princeton PhD cohort for research paper)

2019

German National Academic Foundation Scholarship (Top 0.5% of German students)

2013 - 2018

ESRC Studentship (Top 10% of Oxford MPhil students)

2014 - 2016

Departmental Prize for Best Examination Performance (Ranked #3 of 60 Oxford MPhil students)

2015

Hicks-Webb Prize for “Best Overall Performance in Economics” (Ranked #1 of 348 Oxford BA students)

2014

German Youth Debating Championship (Ranked #2 of 80,000 participants)

2009

TECHNICAL SKILLS & INTERESTS

Economics: Demand Estimation (Logit, BLP, Micro-BLP), Structural Modeling (Entry, Pricing, Auctions).

Programming: Python (Pandas, Scikit-Learn, EconML), SQL, Julia, Stata.

Statistics, Machine Learning: Causal Inference (DiD, RDD, IV, Synthetic Control, Experiments), Predictive ML, ML for Causal Inference (Causal Forests, Double ML).

Interests: Hiking with friends, Computer science, Jogging, Learning new things, Traveling.