

# 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; ML courses
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## EDUCATION

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**Princeton University** – M.A. & Ph.D. in Economics Expected 2022

- Dissertation: Empirical Analysis of Multi-Sided Platforms (Advisor: Prof. Jakub Kastl).
- 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

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

- Estimated demand, recommendation algorithm using data from Amazon Marketplace (on HPC cluster).
- Built structural model of entry & pricing (3,500+ lines of code) to assess effect of recommendations.

**Algorithmic Pricing Facilitates Tacit Collusion** (TORRES PRIZE)

- Evaluated causal impact of repricing algorithms on online marketplaces using RDD and IV.

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

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

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

- Built game theoretic model of how pivotality influences vote buying.

**Heterogeneous Effects of Advertising Exposure** (WORK IN PROGRESS)

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

## LEADERSHIP & COMMUNICATION EXPERIENCE

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**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

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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

## TECHNICAL SKILLS & INTERESTS

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

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