

# MARGARITA BOYARSKAYA

PHD CANDIDATE  
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## EDUCATION

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Sep 2016 – July 2022 (expected)	<b>PhD</b> , Information Systems <b>New York University</b> , New York, United States Selected coursework: Modern Statistics & Causal Inference, Causal Inference: Methods for Program Evaluation and Policy Research, Advanced Mathematics of Data Science, Inference & Representation, Natural Language Processing.
Sep 2009 – July 2014	<b>MS, BS</b> , Theoretical Mathematics <b>Lomonosov Moscow State University</b> , Moscow, Russia Major: Abstract Algebra. GPA: 4.4/5.0 Thesis: ‘Discrete Reflection Subgroups in Hilbert Modular Groups’.

## WORK EXPERIENCE

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March 2020 – June 2020	Research Intern <b>Microsoft Research</b> New York City, United States Collaborators: Prof. Alexandra Olteanu and Prof. Kate Crawford
May 2019 – September 2019	Research Intern <b>Microsoft Research</b> New York City, United States Collaborators: Prof. Solon Barocas and Prof. Hanna Wallach

## FELLOWSHIPS & AWARDS

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NYU Fubon 2021	Doctoral fellow <b>NYU Fubon Center</b> for Technology, Business, and Innovation
NYU ILI 2019-2021	Student fellow <b>NYU Law</b> School, Information Law Institute, <b>Privacy Research Group</b>
JFI 2017	Research fellow <b>Jain Family Institute</b>

## RESEARCH

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[In preparation]: *Causal Models for Counterfactually Fair Classification Under Selection Bias*

Joint work with Prof. Joshua Loftus (LSE)

Work-in-progress presented at: AAAI **AIES 2020** (one of 15 selected student posters), MLSS Tuebingen 2020, **WiML 2019** (one of 8 selected oral presentations)

[Under review at a top-ranked business journal]: *Theoretical Characteristics of  $\delta$ -Margin Voting in Crowdsourcing*. Joint work Prof. Panos Ipeirotis (NYU Stern)

Work-in-progress presented at: **HCML 2019**, **CI 2019** (selected oral presentation)

[In progress]: *What Is a Proxy and Why Is It a Problem?*

Joint work with Prof. Solon Barocas and Prof. Hanna Wallach (Microsoft Research)

Work-in-progress presented at: **ICML 2020 Law & Machine Learning** workshop, NYU CDS Math & Democracy seminar 2019, **NeurIPS 2019 HCML** workshop

[Accepted article]: *Individual Harms in IR*

Joint work with Prof. Alexandra Olteanu and Prof. Kate Crawford (Microsoft Research)

Presented at the **NeurIPS 2020 NBIAIR** workshop

[Published *perspectives* article]: *Responsible Computing During COVID-19 and Beyond*

Barocas S., A. J. Biega, **M. Boyarskaya**, K. Crawford, H. Daumé III, M. Dudík, B. Fish, M. L. Gray, B. Hecht, A. Olteanu, F. Poursabzi-Sangdeh, L. Stark, J. Wortman Vaughan, H. Wallach, M. Zepf  
**Communications of the ACM**, July 2021, Vol. 64 No. 7, Pages 30-32

## SERVICE & INITIATIVE

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### **FAccT 2021**

**Program Committee** member, reviewer

ACM Fairness, Accountability, and Transparency conference

### **Causality & Fairness**

Co-founder, co-organizer

### **Reading Group**

(with Prof. Jennifer Hill and Ravi Sojitra).

2020 – present

### **WiML 2019**

**Reviewer**

Women in Machine Learning (NeurIPS 2019)

## TEACHING

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June 2019

Taught an undergraduate course: **Introduction to Programming & Data Science** at NYU Stern.

Course evaluation: 5.0/5.0, instructor evaluation: 5.0/5.0

March 2019	Assisted Prof. Solon Barocas on the <b>Data Privacy &amp; Ethics</b> class taught to the NYU Stern MSBA cohort. Graded all assignments and essays, authored feedback to students.
February 2019	Prepared teaching materials on AI Fairness for Prof. Natalia Levina's Digital Innovation course taught to NYU Stern MBA cohort.

## ADDITIONAL EDUCATION

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OxML 2021	Selected participant (15% acceptance rate) <b>Oxford Machine Learning Summer School</b> co-organized by AI for Global Goals & CIFAR <b>University of Oxford</b> , UK (remotely)
MLSS Tübingen 2020	Selected participant (120 out of 1600 applicants) <b>Machine Learning Summer School Tübingen</b> , Germany (remotely)
SICSS 2020	Selected participant, invited as a speaker <b>Summer Institute in Computational Social Science</b> <b>UCLA</b> , California (remotely)
M <sup>2</sup> LSS 2020	Selected participant <b>Mediterranean Machine Learning Summer School</b> Milan, Italy (remotely)

## SKILLS

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Natural languages	English = Russian > Persian >> French > East Circassian
Programming & tools	Python, R, Matlab, SQL Past experience in C, C++, JavaScript+HTML, SageMath, High Performance Computing