Local Address:
35 Skehan Street #3
Somerville, MA 02143

Rahul Singh

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Permanent Address:
39420 Cortina Circle
Solon, OH 44139

Education

2023 PhD Economics & Statistics, Massachusetts Institute of Technology
2017 MSc Computational Statistics & Machine Learning, Distinction, University College London
2016 MSc Econometrics & Mathematical Economics, Distinction, London School of Economics
2015 BA Economics & Mathematics, Magna Cum Laude, Yale University

Relevant Coursework

Majors: Econometrics, Labor
Minors: Statistics, Industrial Organization

Working Papers

2019 Learning L2 Continuous Regression Functionals via Regularized Riesz Representers
joint with Professors Victor Chernozhukov and Whitney Newey
arXiv: 1809.05224
2019 Kernel Instrumental Variable Regression, submitted
joint with Professors Arthur Gretton and Maneesh Sahani
arXiv: available 06.03.19

Relevant Positions

2018 Research Assistant for Professor Whitney Newey, MIT
2016 Research Assistant for Professors Glenn Ellison and Parag Pathak, NBER
2015 Risk Intern, Earnest
2014 Summer Intern, The President's Council of Economic Advisors
2013 Tobin Research Assistant for Professor Costas Meghir, Yale
2013 Financial Literacy Teacher, New Haven Reads

Selected Fellowships, Honors, Awards

2019 Harvard Program on Causal Inference Tuition Waiver
2018 Jerry A. Hausman Graduate Fellowship in Economics
2017 MIT Presidential Fellowship
James A. Lash (1966) Presidential Fellowship
2015 Marshall Scholarship
UCL Marshall Scholarship
LSE Marshall Scholarship
Heuer-Monaghan Marshall Residential Scholarship
2015 Phi Beta Kappa

Skills: MATLAB, R, Python, TensorFlow, Stata, SQL

Rahul Singh
35 Skehan St #3
Somerville, MA 02143

May 31, 2019

Dear Mr. Beck,

I am a rising third-year PhD candidate and Presidential Fellow in Economics & Statistics at MIT. I write to express interest in the Economics of Artificial Intelligence PhD Workshop hosted by the NBER.

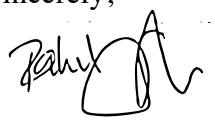
So far, I have studied AI in departments of economics and computer science. Supported by the Marshall Scholarship, I completed the MSc in Econometrics & Mathematical Economics at LSE in 2016 and the MSc in Computational Statistics & Machine Learning at UCL in 2017. I am thrilled about the opportunity to study the economics of AI at a premier academic conference, taught directly by faculty whose work I admire. The workshop takes place immediately after I transition to full-time research as a PhD candidate, and I anticipate that it will be a formative experience as I choose further research questions for my dissertation.

In my current research, I aim to bridge econometrics and machine learning. My first project, joint with Professors Arthur Gretton and Maneesh Sahani of UCL, is a new approach to nonparametric instrumental variable regression that outperforms state of the art alternatives. My second project, joint with Professors Victor Chernozhukov and Whitney Newey of MIT, is a new method for estimating treatment effects and other regression functionals. Both papers are available on arXiv. At the workshop, my aim would be to identify important and open methodological questions in the economics of AI.

Altogether, my experiences up to this point have fueled my fascination for economics and AI research at the NBER.

Thank you for your time and consideration.

Sincerely,



Rahul Singh