

## **Parag A. Pathak**

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### **Education**

Ph.D., Harvard, Business Economics, 2003-2007.  
S.M., Harvard, Applied Mathematics, 2002.  
A.B., Harvard, *summa cum laude* in Applied Mathematics, 2002.

### **Current Employment**

Massachusetts Institute of Technology

Class of 1922 Professor of Economics, 2020-  
Jane Berkowitz Carlton and Dennis William Carlton  
Professor of Microeconomics, 2016-2020.  
Professor of Economics, 2014-  
Associate Professor of Economics (with Tenure), 2011-2014.  
Economics Career Development Assistant Professor of Economics, 2009-2011.  
Assistant Professor of Economics, 2008-2009.

National Bureau of Economic Research

Co-director (and founder), Working Group on Market Design, 2008-  
Faculty Research Fellow, 2008-2011.  
Faculty Research Associate, 2011-.

### **Former or Visiting Positions**

Harvard University

Junior Fellow, Society of Fellows, 2007-2009.

Stanford Graduate School of Business

Visiting Assistant Professor of Economics, 2010-2011.

Harvard University

Visiting Professor of Economics, 2015-2016.

Microsoft Research New England

Weekly Visitor, 2015-2016.

## Honors and Awards

Named by *Science News* as one of the Top 10 Young Scientists to Watch, 2019.  
John Bates Clark Medal, American Economic Association, 2018.  
Fellow of the American Academy of Arts and Sciences, 2018.  
Named by the *Economist* as one of the decades top eight young economists, 2018.  
Fellow of Econometric Society, 2016.  
Social Choice and Welfare Prize, Society for Social Choice and Welfare, 2016.  
Named one of the top 25 Economists under age 45 by the IMF, 2014.  
NSF Presidential Early Career Award for Scientists and Engineers, 2012.  
Alfred P. Sloan Research Fellow, 2012-2013.  
Undergraduate Economics Association's Teaching Award, 2010.  
MIT Economics Career Development Chair, 2009.  
Hernstein Prize for Best Dissertation in Social Sciences at Harvard, 2007.  
Review of Economic Studies Tour, 2007.  
State Farm Companies Doctoral Dissertation Award, 2006.  
George S. Dively Award for Outstanding Pre-Dissertation Research, 2005.  
National Science Foundation Graduate Research Fellowship, 2003.  
Paul and Daisy Soros Fellowship for New Americans, 2003.  
Chateaubriand Fellowship (Ambassade de France), 2002.  
Phi Beta Kappa, Thomas T. Hoopes Prize, 2002.

## Professional Activities

MIT BluePrint Labs (formerly seii), Founder and Director, 2012-.

Avela Education, Chief economist and co-founder, 2020-.

National Bureau of Economic Research, Founding Co-director, Working Group on Market Design, 2008-.

MIT Integrated Learning Initiative, Deputy Director, 2016-.

Associate Editor, *Journal of Political Economy*, 2016-2019; 2019-2022.

Editorial Board, *Education Finance and Policy*, 2014-2017; 2017-2019.

Associate Editor, *Econometrica*, 2013-2016.

Associate Editor, *American Economic Review*, 2012-2015; 2015-2017.

NSF Review Panel, 2012.

Boston Mayor Menino's Technical Advisor for Student Assignment Plan, Boston Public Schools, 2012.

Member of Scientific Board, Institute for Innovation in Public School Choice, 2007-2019.

### Refereed Journal Publications

1. "Short Interest, Institutional Ownership, and Stock Returns." *Journal of Financial Economics*, November 2005, 78: 243-276. (with Paul Asquith and Jay Ritter)
2. "Leveling the Playing Field: Sincere and Sophisticated Players in the Boston Mechanism." *American Economic Review*, September 2008, 98(4), 1636-52. (with Tayfun Sönmez)
3. "Incentives and Stability in Large Two Sided Matching Markets." *American Economic Review*, June 2009, 99(3), 608-627. (with Fuhito Kojima)
4. "Strategyproofness versus Efficiency in Matching with Indifferences: Redesigning the NYC High School Match." *American Economic Review*, December 2009, 99(5): 1954-1978. (with Atila Abdulkadiroğlu and Alvin E. Roth)
5. "Unobserved Punishment Supports Cooperation." *Journal of Public Economics*, February 2010, 94(1-2): 78-86. (with Drew Fudenberg)
6. "Lotteries in Student Assignment: An Equivalence Result." *Theoretical Economics*, January 2011, 6(1): 1-17. (with Jay Sethuraman)
7. "Accountability and Flexibility in Public Schools: Evidence from Boston's Charters and Pilots." *Quarterly Journal of Economics*, May 2011, 126(2), 699-748. (with Atila Abdulkadiroğlu, Joshua D. Angrist, Susan M. Dynarski, and Thomas J. Kane)
8. "Cooperation over Finite Horizons: a Theory and Experiments." *Journal of Public Economics*, August 2011, 95(1-2), 500-512. (with Attila Ambrus)
9. "Forced Sales and House Prices." *American Economic Review*, August 2011, 101(5): 2108-2131. (with John Campbell and Stefano Giglio)
10. "Who Benefits from KIPP?" *Journal of Policy Analysis and Management*, Fall 2012, 31(4): 837-860. (with Joshua D. Angrist, Susan M. Dynarski, Thomas J. Kane, and Chris Walters)
11. "The Market for Borrowing Corporate Bonds." *Journal of Financial Economics*, January 2013, 107(1): 155-182. (with Andrea Au, Paul Asquith, Thomas Covert)
12. "School Admission's Reform in Chicago and England: Comparing Mechanisms by their Vulnerability to Manipulation." *American Economic Review*, February 2013, 103(1): 80-106. (with Tayfun Sönmez)

13. "Matching with Couples: Stability and Incentives in Large Markets." *Quarterly Journal of Economics*, October 2013, 128(4): 1585-1632. (with Fuhito Kojima and Alvin Roth)
14. "Explaining Charter School Effectiveness." *American Economic Journal: Applied Economics*, October 2013, 5(4): 1-27. (with Joshua D. Angrist and Christopher Walters)
15. "The Elite Illusion: Achievement Effects at Boston and New York Exam Schools." *Econometrica*, 2014, 82(1): 137-196. (with Atila Abdulkadiroğlu and Joshua D. Angrist)
16. "Housing Market Spillovers: Evidence from the End of Rent Control in Cambridge MA." *Journal of Political Economy*, June 2014, 122(3): 661-717. (with David H. Autor and Christopher J. Palmer)
17. "The Cost of Free Entry: An Empirical Study of Real Estate Agents in Greater Boston." *Rand Journal of Economics*, 46(1): 103-145, Spring 2015. (with Panle Jia Barwick)
18. "How Individual Preferences are Aggregated in Groups: An Experimental Study." *Journal of Public Economics*, 129(C): 1-13, September 2015. (with Attila Ambrus and Ben Greiner)
19. "Stand and Deliver: Effects of Boston's Charter High Schools." *Journal of Labor Economics*, 34(2), 275-318, 2016. (with Joshua D. Angrist, Sarah R. Cohodes, Susan M. Dynarski, and Christopher R. Walters)
20. "Charters without Lotteries: Testing Takeovers in New Orleans and Boston." *American Economic Review*, 106(7): 1878-1920, July 2016. (with Atila Abdulkadiroğlu, Josh Angrist, and Peter Hull)
21. "Leveraging Lotteries for School Value-Added: Testing and Estimation." *Quarterly Journal of Economics*, 132(2): 871-919, May 2017 (with Josh Angrist, Peter Hull, and Christopher Walters).
22. "Conflicts of Interest and the Realtor Commission Puzzle." *American Economic Journal-Applied Economics*, 132(2): 871-919, July 2017. (with Panle Jia Barwick and Maisy Wong).
23. "Research Design meets Market Design: Using Centralized Assignment for Impact Evaluation." *Econometrica*, September 2017, 85(5): 1373-1432. (with Atila Abdulkadiroğlu, Josh Angrist, and Yusuke Narita).
24. "The Welfare Effects of Coordinated School Assignment: Evidence from the NYC High School Match." *American Economic Review*, December 2017, 107(12): 3635-3689. (with Atila Abdulkadiroğlu and Nikhil Agarwal).

25. “Free to Choose: Can School Choice Reduce Student Achievement?” *American Economic Journal: Applied Economics*, January 2018, 10(1): 175-206. (with Atila Abdulkadiroğlu and Christopher Walters).
26. “Reserve Design: Unintended Consequences and The Demise of Boston’s Walk Zones.” *Journal of Political Economy*, December 2018, 126(6): 2457-2479 (with Umut Dur, Scott Kominers, and Tayfun Sönmez).
27. “How Well Do Structural Demand Models Work? Counterfactual Forecasting in School Choice.” (with Peng Shi), November 2017, NBER Working Paper 24017, forthcoming, *Journal of Econometrics*, Special Issue in Honor of Dan McFadden.
28. “Do Parents Value School Effectiveness?” (with Atila Abdulkadiroğlu, Jon Schellenberg, and Chris Walters), *American Economic Review*, 2020, 110(5): 1502-1539.
29. “Explicit vs. Statistical Preferential Treatment in Affirmative Action: Theory and Evidence from Chicago’s Exam Schools.” (with Umut Dur and Tayfun Sönmez), *Journal of Economic Theory*, 2020, 187, 104996.
30. “Minimizing Justified Envy in School Choice: The Design of New Orleans OneApp.” (with Atila Abdulkadiroğlu, Yeon-Koo Che, Alvin E. Roth, and Olivier Tercieux), *American Economic Review: Insights*, 2020, 2(4): 425-442.
31. “Improving Ventilator Rationing Through Collaboration with Experts on Resource Allocation.” (with Tayfun Sönmez and M. Utku Ünver), *JAMA Network Open*, 2020; 3(6):e2012838.
32. “Covid-19: How to Prioritize Worse-off Populations in Allocating Safe and Effective Vaccines.” (with Harald Schmidt, Tayfun Sönmez, and Utku Ünver), *British Medical Journal*, 2020; 371:m3795.
33. “The Distributional Consequences of Public School Choice.” (with Chris Avery), *American Economic Review*, 2021, 111(1): 129-152.
34. “The Inefficiency of Race-Neutral Alternatives to Race-Based Affirmative Action: Evidence from Chicago’s Exam Schools.” (with Glenn Ellison), *American Economic Review*, 2021, 111(3): 943-975.
35. “Categorized Priority Systems: A New Tool for Fairly Allocating Scarce Medical Resources in the Face of Profound Social Inequities.” (with Tayfun Sönmez (lead), M. Utku Ünver, Govind Persad, Robert D. Truog, and Douglas B. White), *CHEST Journal*, 159(3): 1294-1299, March 2021.
36. “Deduction Dilemmas: The Taiwan Assignment Mechanism.” (with Umut Dur, Fei Song and Tayfun Sönmez), September 2018, NBER Working Paper 25024. forthcoming, *American Economic Journal: Microeconomics*.

37. “Breaking Ties: Regression Discontinuity Design meets Market Design.” (with Atila Abdulkadiroglu, Josh Angrist, and Yusuke Narita), March 2019, forthcoming, *Econometrica*.

### Other Publications

1. “The New York City High School Match.” *American Economic Review, Papers & Proceedings*, May 2005, 364-367. (with Atila Abdulkadiroğlu and Alvin E. Roth)
2. “The Boston Public Schools Match.” *American Economic Review, Papers & Proceedings*, May 2005, 368-371. (with Atila Abdulkadiroğlu, Alvin E. Roth, and Tayfun Sönmez)
3. “The Dynamics of Open-Source Contributors.” *American Economic Review, Papers & Proceedings*, May 2006, 114-118. (with Josh Lerner and Jean Tirole)
4. “The Impact of Commissions on Home Sales in Greater Boston.” *American Economic Review, Papers & Proceedings*, May 2010. (with Panle Jia)
5. “Inputs and Impacts in Charter Schools: KIPP Lynn.” *American Economic Review, Papers & Proceedings*, 100(2), 239-243, May 2010. (with Joshua D. Angrist, Susan M. Dynarski, Thomas J. Kane, and Chris Walters)
6. “The Mechanism Design Approach to Student Assignment.” *Annual Reviews of Economics*. Volume 3: 513-536, 2011.
7. Discussion of “The Missing One-Offs: The Hidden Supply of High-Achieving, Low-Income Students” by Chris Avery and Caroline Hoxby. *Brookings Papers on Economic Activity*, Spring 2013.
8. Discussion of “Evaluating Policies to Prevent Another Foreclosure Crisis” by Paul Willen. *Cato Papers on Public Policy*, Spring 2013.
9. “Interpreting Tests of School VAM Validity.” *American Economic Review, Papers & Proceedings*, 106(5), 388-392, May 2016. (with Josh Angrist, Peter Hull, Christopher Walters)
10. “What Really Matters in Designing School Choice Mechanisms,” in Bo Honore, Ariel Pakes, Monika Piazzesi, Larry Samuelson, eds. *Advances in Economics and Econometrics, 11th World Congress of the Econometric Society*, Cambridge University Press, 2017.
11. “Regression Discontinuity in Serial Dictatorship: Achievement Effects at Chicago’s Exam Schools.” *American Economic Review, Papers & Proceedings*, 107(5), 240-245, May 2017. (with Atila Abdulkadiroğlu, Josh Angrist, Yusuke Narita, and Roman Zarate)

12. “Ending Rent Control Reduced Crime in Cambridge.” *American Economic Review, Papers & Proceedings*, 109, 381-384, May 2019 (with David H. Autor and Christopher J. Palmer)

### Working Papers and Work in Progress

1. “Simple and Credible Value-Added Estimating Using Centralized School Assignment.” (with Josh Angrist, Peter Hull, and Christopher R. Walters), December 2020, NBER Working Paper 28241, Revise-and-resubmit, *Review of Economics and Statistics*.
2. “Mechanism Design meets Priority Design: Redesigning the US Army’s Branching Process.” (with Kyle Greenberg and Tayfun Sönmez), NBER Working Paper 28911, June 2021.
3. “The Long-Term Effects of Universal Preschool in Boston.” (with Guthrie Gray-Lobe and Christopher R. Walters), NBER Working Paper 28756, May 2021,
4. “Fair Allocation of Vaccines, Ventilators, and Antiviral Treatments: Leaving No Ethical Value Behind in Health Care Rationing.” (with Tayfun Sönmez, M. Utku Ünver, and M. Bumin Yenmez), NBER Working 26951, 2020.
5. “Rationing Safe and Effective COVID-19 Vaccines: Allocating to States Proportionate to Population May Undermine Commitments to Mitigating Health Disparities.” (with Harald Schmidt, Michelle Williams, Tayfun Sönmez, M. Utku Ünver, Lawrence Gostin), November 2020.
6. “What Prioritizing Worse-Off Minority Groups for COVID-19 Vaccines Means Quantitatively: Practical, Legal, and Ethical Implications.” (with Harald Schmidt, M. Utku Ünver, Michelle Williams, Tayfun Sönmez, and Lawrence Gostin)
7. “Choice and Consequence: Assessing Mismatch at Chicago Exam Schools.” (with Josh Angrist and Roman Zárate), August 2019, NBER Working Paper 26137, revised July 2020.
8. “Immigration Lottery Design: Engineered and Coincidental Consequences of H-1B Reforms.” (with Alex Rees-Jones and Tayfun Sönmez), February 2020, NBER Working Paper 26767.
9. “Reversing Reserves.” (with Alex Rees-Jones and Tayfun Sönmez), April 2020, NBER Working Paper 26963
10. “Paying it Backward and Forward: Expanding Access to Convalescent Plasma Therapy through Market Design.” (with Scott D. Kominers, Tayfun Sönmez, M. Utku Ünver), May 2020, NBER Working Paper 27143.
11. “Priority-Based Matching with a Social Objective: Contract Design for Access and Equity.” (with Umut Dur, Arda Gitmez, and Tayfun Sönmez), March 2018.

12. “The Effects of Mandatory Transparency in Financial Market Design: Evidence from the Corporate Bond Market.” (with Paul Asquith and Thomas Covert), NBER Working Paper 19417, September 2014, revised March 2019.
13. “The Economics of the Common Application.” (with Chris Avery), March 2019.
14. “Optimal Curricula, Student Achievement, and the Regression Discontinuity Design.” (with Glenn Ellison), April 2017.

### **Research Grants**

W. T. Grant Foundation, “Understanding the Impact of Integration Policies in New York City Schools,” 2020-2023.

Spencer Foundation, “Understanding the Impact of Integration Policies in New York City Public Schools,” 2020-2022.

Walton Family Foundation, “Using Unified Enrollment Data to Grade School Effectiveness” 2019-2022.

Walton Family Foundation, “The Impact of Boston Charters on Earnings: A Feasibility Study” 2019-2020.

The Michael and Susan Dell Foundation, “MIT School Access Fellows Program.” 2019-2020.

Laura and John Arnold Foundation, “School Assignment and Accountability: Helping Policymakers Translate Student Assignment into School Effectiveness” 2018-2020.

Spencer Foundation, “Leveraging Lotteries for Value-Added,” 2015-2017.

Walton Family Foundation, Post-doctoral support, 2016-2018.

William T. Grant Scholars Program, Early Career Award, 2015-2019.

MIT ESI Seed Grant, “Improved Management of Common Pool Resources: Water Market Design,” 2015-2017.

National Science Foundation Research Grant, “Research Design meets Market Design,” 2014-2017.

Laura and John Arnold Foundation, award to study affirmative action at Chicago Public Schools, 2014-2016.

National Science Foundation Research Grant, “Diversity and Transportation in School Choice,” 2014-2016.

MIT-Chile Universidad Diego Portales Seed Fund, “Voucher Reform in Chile,” 2014-2016.

Laura and John Arnold Foundation, award to study the New Orleans OneApp, 2013.

Boston Foundation - New Schools Venture Fund project on MA Charters, 2012-2013.

Institute for Education Sciences, Charter Schools; New Econometric Methods, 2012-2015.

National Science Foundation CAREER Research Grant, “From Assignment to Evaluation:



The Design of School Choice Systems,” Grant SES-1056325, 2011-2016.  
National Science Foundation Research Grant, “Spillovers from Price Regulations: Evidence from Rent Control in Cambridge, MA” Grant SES-962572, 2010-2013.  
Massachusetts Department of Elementary and Secondary Education contract to study charter Schools, 2009-10.  
Harvard Real Estate Initiative Grant, 2010.  
Lincoln Institute for Land Policy Research Grant, “Spillovers from Price Regulations: Evidence from Rent Control in Cambridge, Massachusetts,” 2010.  
Alfred P. Sloan Foundation Research Grant, “Spillovers from Price Regulations: Evidence from Rent Control in Cambridge, Massachusetts,” 2009.  
National Science Foundation Research Grant, “New Issues in Matching Market Design,” Grant SES-924555, 2009-2012.  
Harvard Milton Fund Research Grant, 2007.  
Rappaport Institute for Greater Boston Fellow, 2007.  
Q-Group Research Grant, 2006.  
John R. Meyer Dissertation Fellowship, Joint Center for Housing Harvard, 2006.  
Lincoln Institute for Land Economics Grant, 2005.  
Spencer Foundation on Education Research Grant, 2005.  
National Science Foundation Graduate Research Fellowship, 2003-2006.

### **Invited Plenary Talks**

Plenary address, Stony Brook International Game Theory Conference, 2020.  
Keynote speaker, Matching in Practice Workshop, Gothenberg, Sweden, 2019.  
Keynote speaker, 2019 Asian Meeting of Econometric Society, Xiamen, China, 2019.  
Keynote speaker, Economics of Markets and Organizations, Toronto, 2018.  
Keynote speaker, 13th Conference on Web and Internet Economics, Bangalore, India 2017.  
Keynote speaker, 10th Conference on Economic Design, in York, Society for Economic Design, 2017.  
Social Choice and Welfare Economics Prize Lecture, Lund Sweden, 2016.  
Frank Knight Memorial Lecture, Cornell University, 2016.  
“What Really Matters in Designing School Choice Mechanisms,” Invited lecture, 11th World Congress of the Econometric Society, Montreal, 2015.  
“Econometrics of Matching,” *Econometrics Journal Special Session*, Royal Economic Society, 2015.  
Condorcet Lecture at Social Choice and Welfare Conference, 2014.  
Lloyd Shapley Lecture for “distinguished game theorist aged 40 or under” at the World Congress of the Game Theory Society, Istanbul, 2012.  
Keynote Speaker, ECORE Summer School on “Market Failure and Market Design,” 2011.  
Keynote Lecture, 15th Annual Coalition Theory Workshop in Marseilles, 2010.

## Teaching

Graduate: Microeconomic Theory (PhD), Market and Mechanism Design (PhD), Labor Economics (PhD), Education Reform (MBA), Short-courses in Market Design (NBER, Hebrew University, ECARES, Princeton, AEAs)

Undergraduate: Microeconomic Theory, Market Design

Letter writer for the following PhD students, with initial placement (\* indicates primary or secondary advisor):

1. Gabriel Carroll\* ('12), Stanford Economics
2. Nikhil Agarwal\* (Harvard '13), MIT Economics
3. Chris Walters\* ('13), Berkeley Economics
4. Anton Kolotin ('13), University of New South Wales
5. Thomas Covert\* (Harvard '14), Chicago Booth
6. Christopher J. Palmer\* ('14), Berkeley Haas
7. Miikka Rokkanen\* ('14), Columbia Economics
8. Weiwei Hu (Duke '14), Hong Kong University of Science and Technology, post-doc
9. Ankur Mani (Media Lab '14), University of Minnesota Industrial Engineering
10. Matt Weinberg (EECS '14), Princeton CS
11. Yusuke Narita\* ('16), Yale Economics
12. Peng Shi\* ('16), University of Southern California Marshall School of Business, OM group
13. Camille Terrier ('16 PSE), MIT post-doc → University of Lausanne
14. Peter Hull\* ('17), University of Chicago Economics
15. Elizabeth Setren\* ('17), Tufts Economics
16. Christos Tzamos (EECS '17), University of Wisconsin Madison CS
17. Alonso Bucarey\* ('18), Amazon
18. Daniel Waldinger\* ('18), New York University Economics
19. Fei Song\* ('19), Facebook
20. Arda Gitmez\* ('19), Post-doc Harris School University of Chicago, Bilkent University

21. Román Andrés Zárate\* ('19), University of Toronto
22. Will Rafey\* ('20), UCLA
23. Lorenzo Neri ('20 QMUL), University of St. Andrews

8/2021