

# Monica Agarwal

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427 Lorch St., Room# 305  
Department of Agricultural & Applied Economics  
University of Wisconsin-Madison  
Madison, WI 53706, USA

Email: [monica2@wisc.edu](mailto:monica2@wisc.edu)  
Website: <https://monica-agarwal.github.io>  
Phone: +1 608-609-8465  
Citizenship: India  
Permanent Residency: Canada

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## RESEARCH INTERESTS

Development Economics, Economics of Education

## EDUCATION

2024 (expected)	Ph.D. in Agricultural & Applied Economics, University of Wisconsin-Madison Dissertation title: <i>"Essays on Affirmative Action Policies and Educational Outcomes"</i>
2020	M.S. in Agricultural & Applied Economics, University of Wisconsin-Madison
2018	M.Phil. in Economics, Jawaharlal Nehru University, India
2014	M.A in Economics, Jadavpur University, India
2012	B.A. (Hons.), in Economics, Jadavpur University, India

## REFERENCES

[Prof. Laura Schechter](#) (PhD Advisor)  
Department of Agricultural and Applied Economics  
University of Wisconsin-Madison  
Email: [lschechter@wisc.edu](mailto:lschechter@wisc.edu)

[Prof. Jeffrey A. Smith](#)  
Department of Economics  
University of Wisconsin-Madison  
Email: [econjeff@ssc.wisc.edu](mailto:econjeff@ssc.wisc.edu)

[Prof. Priya Mukherjee](#)  
Department of Agricultural and Applied Economics  
University of Wisconsin-Madison  
Email: [priya.mukherjee@wisc.edu](mailto:priya.mukherjee@wisc.edu)

## WORKING PAPERS

### - **Role of Affirmative Action in Enrollment, Test Scores, and School Quality: Evidence from India** (JOB MARKET PAPER)

**ABSTRACT:** Worldwide, affirmative action policies are implemented as a means to promote social equity. India's Right to Education Act (RTE), one of the largest affirmative action policies in the world, mandates all private schools to reserve 25% of incoming seats at entry-level grades for low socioeconomic status students. Despite being in existence for more than a decade, the effectiveness of this policy remains largely understudied. In this paper, I estimate the causal impact of RTE's 25% quotas on children's learning outcomes using a combination of rich administrative and survey data in a large state in India. I leverage the lottery based allocation of oversubscribed schools to identify the causal impact of being a beneficiary under this policy. I find that the policy improves children's English test scores by .18 SD via beneficiaries attending better schools, and investing more time in educational activities. While the policy allocates children to private schools, there also exists a large variation in the quality of private schools. Hence, I uncover the distribution of effects within the private sector, and find that higher quality private schools boost English test scores by .5-.7 SD, relative to lower quality private schools. My findings are from a context when all learning is remote, and suggest that private schools, especially the ones at the upper end of the quality distribution, do a better job at adapting to, and implementing remote educational technologies, and in doing so, they also enhance children's learning.

- **Women Empowerment and Household Sanitation** - with Md Moshi Ul Alam

ABSTRACT: Females derive greater benefits from in-house toilets than males. Given this, we estimate the causal impact of a policy that increased inheritance rights of females in India, on the presence of a toilet in their marital household. We estimate that the policy increased the probability of the presence of a toilet in the household a woman marries into, by at least 11 percentage points on average. Allowing for dynamic and heterogeneous treatment effects, we show that the average treatment effect is primarily driven by larger effects in states that adopted the policy later compared to early adopters. In addition, we find that the policy had the highest impact on the group of women who were the youngest at the time of policy implementation, thus having the longest exposure under the policy. Our results highlight that empowering females through inheritance rights and thus improving their within-household bargaining power can be a seemingly unrelated, yet effective policy tool for improving sanitation coverage in regions grappling with open-defecation problems.

- **Parental Investments and Sibling Spillover Effects of Affirmative Action Policies: Evidence from India**

ABSTRACT: Affirmative action policies that are targeted to specific individuals may have unintended spillover effects. Typically, such spillover effects are absent from the cost-benefit analyses of affirmative action policies. In this paper, I estimate the sibling spillover effects of India's Right to Education Act policy, which mandates all private schools to reserve 25% of incoming seats at entry-level grades for low socioeconomic status students. I combine the administrative data of applications to grade 1 private school admissions under the policy, along with survey data conducted with a sample of applicant households, where I collect detailed data on children's educational outcomes for both the applicants of the policy, and their siblings. Lottery based allocation of oversubscribed private schools leads to a randomization in whether the applicant child wins or loses the private school lottery. I leverage these lotteries to compare educational outcomes of siblings in winning applicant households, relative to siblings in losing applicant households, by comparing households that submitted the same school preferences for applicants under the policy. I find that being in a winning household negatively affects the likelihood of enrollment when the sibling is younger and of pre-school age (by 15 percentage points). This result is potentially driven by the availability of high-quality learning materials from the school attended by the older applicant child who won the lottery to private schools. Conversely, when the sibling is younger, but of primary school entry age, I find that the likelihood of enrollment for siblings increases by 11 percentage points in winning households, relative to losing households. This result indicates that parents in winning households are less likely to delay school enrollment for children that are approaching school entry age. I find no differences in parental time and monetary investments across siblings in winning versus losing households. The results highlight that affirmative action policies may have unintended consequences, beyond targeted individuals, and highlights the importance of considering these spillovers in the cost-benefit analyses of such policies.

## SELECTED RESEARCH IN PROGRESS

- **Spatial Inequality and School Choice Mechanisms** - with Md Moshi Ul Alam, Chao Fu, YingHua He

## ACADEMIC GRANTS

- 2021 J-PAL Post Primary Education Initiative (USD 10,000) for  
*Role of Affirmative Action in Enrollment, Test Scores, and School Quality: Evidence from India (Job Market Paper)*  
 and  
*Parental Investments and Sibling Spillover Effects of Affirmative Action Policies: Evidence from India*
- 2021 Dissertation Research Grant, Department of Agricultural and Applied Economics, UW-Madison (USD 1,000)

## AWARDS

- 2018 Department of Agricultural and Applied Economics, Student Research Travel Grant, UW-Madison
- 2018 Graduate School Student Research Travel Grant Competition for Conference Travels, UW-Madison
- 2016-2018 University Grants Commission, India Non NET Fellowship

## RESEARCH ASSISTANCE

2022-24 for Prof. Jessica Pac, Department of Social Work, UW-Madison.

2021-22 for Prof. Bradford Barham, Department of Agricultural & Applied Economics, UW-Madison.

2020-21 for Prof. Laura Schechter, Department of Agricultural & Applied Economics, UW-Madison.

2019-20 for Prof. Emilia Tjernström, Department of Agricultural & Applied Economics, UW-Madison.

2018-19 for Prof. Bradford Barham, Department of Agricultural & Applied Economics, UW-Madison.

## TEACHING ASSISTANT

2020 Spring AAE 215: Introduction to Agricultural and Applied Economics, Prof. Eduardo Cenci

- Average Rating: 4.78/5

## REFEREEING SERVICE

Economics of Education Review

## OTHER SERVICE

2022-2023 Organizer of Development Lab, Department of Agricultural and Applied Economics, UW-Madison

## CONFERENCES &amp; SEMINARS

2023-2019 AAE Development Lab, UW-Madison

2023 Association for Mentoring and Inclusion in Economics (AMIE); University of Georgia, Agricultural and Applied Economics - Graduate Development Workshop (scheduled)

2018 14th Annual Conference on Growth & Development, Indian Statistical Institute, India

## AFFILIATIONS

2022-2023 Association for Mentoring and Inclusion in Economics (AMIE)

2019 Graduate Research Fellow, Institute of Research and Poverty, University of Wisconsin-Madison

## COMPUTER LANGUAGES

STATA, R, L<sup>A</sup>T<sub>E</sub>X, Webscraping using Python

## PRIOR EMPLOYMENT

2014-2016 Associate Consultant, *Big Data Analytics, Wipro Limited, India*

## OTHER INFORMATION

Languages: English (fluent), Hindi (native), Bengali (fluent)