

# VIKAS PD GAWAI

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## EDUCATION

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University of Wisconsin-Madison, Ph.D., Ag and Applied Economics (AAE)	<i>Expected 2024</i>
University of Wisconsin-Madison, Masters of Economics	<i>2016-18</i>
University of Mumbai, India, Bachelor of Technology, Civil Engineering	<i>2004-08</i>

## RESEARCH INTERESTS

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Health, Aging, Social Security, Public Policy, Human Capital, Caste (Race), Gender, Agriculture, Broadband

## JOB MARKET PAPER

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- Does High-Speed Internet (Broadband) Technology Affect the Mental Health of Older Adults? (*Presentations - MEA '23, American University '23, SEA '23, APPAM '23*); Media Highlight: GROW MAGAZINE cover story

**Abstract-** Recent research has shown the negative effects of social networks on younger people's mental health. Yet, we do not know whether the same effects are present across the population, particularly for older adults, who are especially vulnerable to certain mental health conditions. I estimate the effect of broadband availability on the mental health of older adults (aged 50+) in the United States, using individual panel data and exploiting the census tract-level staggered rollout of broadband from 2010 to 2018 in the latest difference-in-differences (DID) framework. In contrast to the literature that finds harmful effects of the internet among younger populations, my results show that broadband rollout significantly reduces depression symptoms by 5.7% among older adults. The primary mechanisms driving these positive effects include an increase in self-use of the internet and virtual social connectedness and a decline in social isolation and loneliness. Improved health literacy and technological efficiency (telehealth) also partly drive the results but do not affect self-reported physical health or employment. Rural dwellers and women are the biggest beneficiaries of broadband's positive effects on mental health. I also find some evidence of the spatial spillover effects. These positive estimates are comparable with other major life events known to negatively affect the mental health of older adults, such as job loss, recession, and the death of a spouse. This work highlights broadband's unmeasured additional benefits to public investments, given the recent allocation of over \$65 billion to broadband expansion. A back-of-the-envelope calculation suggests that broadband expansion may reduce the cost of excess Medicare spending by about \$5 billion due to major depressive symptoms and social isolation among older adults.

## PUBLICATIONS

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- Early-Life Economic Conditions and Old-Age Mortality: Evidence from Historical County-Level Bank Deposit Data, *with Valentina Duque, Jason Fletcher, Hamid Noghanibehambari, Lauren Schmitz*- (**Accepted at *Journal of Population Economics*, January 2024**)
- Discrimination in Science: Salaries of Foreign and US Born Land-Grant University Scientists *with Jeremy Foltz* (**R&R at *American Journal of Agricultural Economics (AJAE)***)

## WORKING PAPERS

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- Effects of Early Life Exposures to the Green Revolution (agricultural technology) on Later Life Aging Outcomes: Evidence from the Largest Aging Data *with Lauren Schmitz, Valentina Duque, Jinkook Lee, Hunter Green* (*presented at APPAM '22*)
- Effects of Broadband on Social Security Insurance (SSI) and Disability Insurance (SSDI) Applications (*Award from Retirement and Disability Research Center (RDRC) Center for Financial Security (CFS), Social Security Administration (SSA)*)

- Spillover Effects of a Bicycle Policy on Girls' Enrollment in Middle Schools (*Recognition under Best Paper Scholarship (Honorable mention), Dept. of Economics, UW-Madison, 2018*)

## SELECTED WORK IN PROGRESS

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Is there a Link between Access to Broadband and Health Outcomes? A spatial econometrics approach using County Health Rankings data *with Steven Deller*

Spatially Varying Gender and Caste Inequalities in Cognition and the Contribution of Individual and State-level Characteristics Across India *with Lauren Schmitz, Kanika Arora, and Shubhashrita Basu (selected at a Workshop on Determinants of Adult Mortality, Morbidity, and Healthy Aging in LMICs at UC, Berkeley)*

Effects of Teacher Hiring Policy on Student Test Scores in Rural India: A Multiple Regression Discontinuity Design Approach for one of the Largest Public School Systems in the World (*selected at American Education Finance and Policy conference (AEFP)*)

Effects of Rural Hospital Closures on Mortality in Severe Weather Conditions (*selected at Association of Environmental and Resource Economists (AERE)*)

Effect of Green Revolution on the Intergenerational Human Capital *with Valentina Duque, Lauren Schmitz (presented at PAA '22)*

## COMPETITIVE HONORS

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- Diversity Fellow**, School of Public Affairs, American University 2023-
- Research Fellow**, Retirement and Disability Research Center (**RDRC**) Center for Financial Security (CFS), Social Security Administration (**SSA**) 2022-
- DEI- Diversity Scholarship** American Society of Health Economics (ASHEcon) 2021
- Best Research Paper Scholarship (Honorable mention)** Dept. of Economics, UW Madison 2018

## COMPETITIVE GRANTS AND AWARDS

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- Center for Demography of Health and Aging **Research Travel** Award- \$2,000 2023
- RDRC - Junior Scholar **Research Competition** Award- \$5,000 2022-23
- Prof. Jeremy Foltz **Research Travel** Award- \$1,100 2023
- Deborah and David Penn Fund - **Research Presentation** Award- \$500, \$1000 2022, 23
- UW-Madison- Graduate School - **Research Presentation** Award- \$2,500, \$1,500 2022, 23
- UW-Madison- CDE **Research Presentation** Award- \$950 2022
- UW-Madison- Traisman Agribusiness **Graduate Fellowship**- \$750 2021
- UW-Madison Student Research Grants Competition **Research Travel**- \$1,500 2020
- UW Madison Graduate Student **Summer Fieldwork** Award- \$3,000 2019
- Indian State Government Scholarship for Masters in Economics- \$100,000 2016-18

## ACADEMIC AFFILIATIONS

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- Graduate Student, Center for Demography of Health and Aging (**CDHA**), and Center for Demography and Ecology(**CDE**) 2019–Current
- Graduate Student, Institute of Research on Poverty (**IRP**) 2021-2022
- Graduate Student, Center for South Asia, (**CSA**) 2020–

## CONFERENCE PRESENTATIONS

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- Midwest Economics Association (MEA) 2023
- Agricultural and Applied Economics Association (AAEA) 2022
- Association for Public Policy Analysis & Management (APPAM) 2022, 23
- Population Association of America (PAA) 2022
- Southern Economics Association (SEA) 2023

## LEADERSHIP, MENTORSHIP

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<i>Mentor for two undergrad students on a class project under Prof. Foltz</i>	<i>2022</i>
<i>Mentor for three FirstGen undergrad student</i>	<i>2022</i>
UW-Madison First Generation ( <b>FirstGen</b> ), <i>Member</i>	<i>2021–</i>
UW-Madison CHDA NextGen Population, <i>Mentor for 18 students on research development</i>	<i>2022</i>
UW-Madison, AAE, Faculty Hiring Committee, <i>Student Representative</i>	<i>2022</i>
UW-Madison, AAE, Ph.D. Admission Committee, <i>Student Representative</i>	<i>2021</i>
Taylor-Hibbard Club, <i>Athletic Chair</i>	<i>2020–2022</i>
UW-Madison AAE, Development Lab Group, <i>Member</i>	<i>2019–</i>

## ACADEMIC SERVICE

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Association for Public Policy Analysis & Management (APPAM), <i>Abstract Reviewer</i>	<i>2023</i>
Journal- Economics of Education Review, <i>Reviewer</i>	<i>2022-23</i>
American Society for Health Economists (AshEcon), <i>Abstract Reviewer</i>	<i>2022</i>
Agriculture and Applied Economics (AAEA), <i>Abstract Reviewer</i>	<i>2022, 2023</i>
AAEA-Health Economics Section (Chair- Prof. Di Fang) <i>Official Twitter Manager (with Lei Pan)</i>	<i>2022-23</i>

## RESEARCH EXPERIENCE

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<b>Research Assistant</b> to Prof. Lauren Schmitz (UW Madison, School of Public Affairs) and Prof. Valentina Duque (University of Sydney, Princeton University, American University)	<i>2020–</i>
<b>Research Assistant</b> to Prof. Jeremy Foltz and Prof. Bradford Barham (UW Madison, AAE)	<i>2018-2020</i>
<b>Research Assistant</b> to Prof. Andra Ghent (UW Madison, Wisconsin School of Business)	<i>May-Sept (2018)</i>

## TEACHING EXPERIENCE

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Guest Lecturer: <b>Agricultural &amp; Economic Development of Africa (Health)</b> , (Instructor- Osaretin Olurotimi) UW-Madison, AAE 477	<i>Spring 2022</i>
Guest Lecturer: <b>International Studies (Gender Gap and Economics Development in Developing Countries)</b> , (Instructor- Prof. Jeremy Foltz) UW-Madison, AAE 374	<i>Spring 2022, 2023</i>
Guest Lecturer: <b>The Economics of Race and Gender</b> (Gender Gap in Developing Countries), (Instructor- Prof. Meghan I. Esson) Bentley University, EC 298	<i>Spring 2022</i>

## TECHNICAL SKILLS

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STATA, R(basic), Python(basic), Latex

## REFERENCES

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### Jeremy Foltz (advisor)

Professor, Agricultural and Applied Economics  
University of Wisconsin-Madison  
jdfoltz@wisc.edu,

### John Mullahy

Professor, Population Health Sciences  
University of Wisconsin-Madison  
jmullahy@wisc.edu,

### Lauren Schmitz

Assistant Professor, La Follette School of Public Affairs  
University of Wisconsin-Madison  
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### Priya Mukherjee

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University of Wisconsin-Madison  
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*Updated January 21, 2024*