

Alison B. Joglekar
(née Bittinger)

248G Ruttan Hall
1994 Buford Avenue
St. Paul, MN 55108

Phone: (612) 624-5385
Email: joglekar@umn.edu
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EDUCATION

Ph.D., Applied Economics, University of Minnesota – Twin Cities, (2015)
M.S., Applied Economics, Montana State University – Bozeman (2010)
B.S., Economics, Montana State University – Bozeman (2007)
B.A., Business – Management, Montana State University – Bozeman (2007)

DISSERTATIONS

Ph.D. Dissertation:

“The Landscape of Farming: An Exploration of Spatial-Bio Economic Characterization Approaches”
Committee: Philip Pardey (Primary Adviser), Terrance Hurley (Co-Adviser), Jason Beddow (Co-Adviser), Jordan Chamberlin (Michigan State University)

M.S. Thesis:

“Crop Diversification and Technology Adoption: The Role of Market Isolation in Ethiopia”
Committee: Vincent Smith (Adviser), Joseph Atwood, Douglas Young, Philip Pardey (University of Minnesota)

RESEARCH INTERESTS

Development Economics, Policy Analysis, Agricultural Economics, Spatial Econometrics

RESEARCH EXPERIENCE

Adjunct Assistant Professor, Dept. of Applied Economics, University of Minnesota (Feb. 2018–Present)

Research Associate, G.E.M.S/International Agro-Informatics Alliance (IAA), College of Food, Agricultural and Natural Resource Sciences (CFANS), University of Minnesota (Jan. 2018–Present)

Develop analytical pipelines to enable the interoperability of the “S” (socio-economic) data with the “G.E.M.” (genomic, environmental and management) data within the G.E.M.S. platform.

Create, enhance and maintain spatial bio-economic models and datasets.

Undertake research to inform practical and policy decisions of governments, food and agribusiness interests, and others.

Research Associate, International Science and Technology Practice and Policy (InSTePP) Center, Dept. of Applied Economics, University of Minnesota (Nov. 2015–Dec. 2017)

Aided in the development of the G.E.M.S/International Agro-Informatics Alliance (IAA): a CFANS-led initiative that enables collaboration across public, private and non-profit sectors to create information from data at different temporal and spatial scales that sustains growth in agricultural and food productivity.

Finalized work on the HarvestChoice project: a Bill and Melinda Gates Foundation funded research initiative which generated knowledge products to help guide strategic decisions to improve the well-being of the poor in sub-Saharan Africa through more productive and profitable farming.

Researched the changing location of Minnesota agriculture for the CFANS Dean.

Consultant, Miske-Witt and Associates (Oct. 2015, Nov. 2015–April 2016, Oct. 2016–April 2017)

Analyzed data from the CARE Cambodia Bilingual Education Assessment project and data from the midline and endline IGATE assessment of education in Zimbabwe project.

Research Assistant, Dept. of Applied Economics, University of Minnesota (Jan. 2011–Oct. 2015)

Worked on the HarvestChoice project (described above) under the supervision of Prof. Philip Pardey.

Consultant, HarvestChoice (Oct. 2013)

Traveled to Tanzania, Kenya and South Africa to prepare a report on the data collection, coding and processing for the Capacity and Action for Aflatoxin Reduction in Eastern Africa (CAAREA) project.

Research Assistant, Dept. of Applied Economics, University of Minnesota (Mar. 2013, Oct. 2013)

Created maps of dairy farm locations in the Midwest under the supervision of Prof. Marin Bozic.

Intern, Economic Research Service, U.S. Department of Agriculture (May 2013–Aug. 2013)

Spatially located conservation reserve program (CRP) contracts nationwide to provide information on fixed parcels of land over time under the supervision of Dr. Nathaniel Higgins.

Consultant, International Food Policy Research Institute (IFPRI) (Summer 2010)

Conducted a segmentation study on Ethiopian households to quantify and characterize target clients and potential beneficiaries of agricultural development investments under the supervision of Dr. Stanley Wood.

Research Assistant, Dept. of Ag. Economics and Economics, Montana State University (Jan. 2009–May 2010)

Researched the effects of market isolation on small-scale agricultural production in Ethiopia under the supervision of Prof. Vincent Smith.

TEACHING EXPERIENCE

Guest Lecturer, APEC 5721: Economics of Science and Technology Policy (Nov. 2014, Dec. 2015)

Department of Applied Economics, University of Minnesota, St. Paul, MN

Teaching Assistant, ECNS 204IS: Microeconomics (Fall 2009)

Dept. of Ag. Economics and Economics, Montana State University, Bozeman, MT

Instructor, English (Pre-Form, Form I, Form II) and Math (Pre-Form) (Jan. 2008–June 2008)

Lukima Secondary School, Village Schools International, Mbinga, Tanzania

Teaching Assistant, Strategic Management Seminar (May 2007)

University International Business School, Vilnius, Lithuania

UNDER REVIEW

Atwood, J., **A.B. Joglekar** and V. Smith. “Developing Consistent Marginal Effects in a Nelson-Olson Simultaneous Equation Model with Limited Dependent Variables.”

Joglekar, A.B., U. Wood-Sichra and P.G. Pardey. “Pixelating Crop Production: Consequences of Methodological Choices.”

BOOK CHAPTERS

Miske, S.J. and **A.B. Joglekar** (2018). “Using or Misusing the Early Grade Reading Assessment? Examining a Measure of Payment by Results in DFID’s Girls Education Challenge,” in *Annual Review of Comparative and International Education 2017*: 187-202.

WORKING PAPERS

Pardey, P.G., C. Chan-Kang, F. Liebenberg, I. Luby, **A.B. Joglekar**, S.D. Senay, C. Azzarri, T.M. Hurley and M. Mkondiwa (April 2017). “What Do We Know About (Procured) Input Use in African Agriculture?” *HarvestChoice Working Paper*. St. Paul, MN: International Science and Technology Practice and Policy (InSTePP) Center, University of Minnesota.

- Final revisions for submission to the *AJAE* in Feb. 2018

Pardey, P.G., M.A. Hurley, T.M. Hurley, C. Chan-Kang and **A.B. Joglekar** (Mar. 2017). “The Size Structure of African Farms: New Estimates and Implications.” *HarvestChoice Working Paper*. St. Paul, MN: International Science and Technology Practice and Policy (InSTePP) Center, University of Minnesota.

- Planned submission to *World Development*

Pardey, P.G., **A.B. Joglekar** and T.M. Hurley (Jan. 2017). “A Location Centric Exploration of Cereal Yields Worldwide.” *HarvestChoice Working Paper*. St. Paul, MN: International Science and Technology Practice and Policy (InSTePP) Center, University of Minnesota.

- Final revisions for submission to *PNAS* in Feb. 2018.

Joglekar, A.B., U. Wood-Sichra and P.G. Pardey (Dec. 2016). “Pixelating Crop Production: Consequences of Methodological Choices.” *HarvestChoice Working Paper*. St. Paul, MN: International Science and Technology Practice and Policy (InSTePP) Center, University of Minnesota.

Joglekar, A.B. and P.G. Pardey (Oct. 2016). “Proximity to Agricultural Markets, Down to the Last Kilometer.” *HarvestChoice Brief*. St. Paul, MN: International Science and Technology Practice and Policy (InSTePP) Center, University of Minnesota.

- Under revision for submission to *Nature*

Joglekar, A.B., P.G. Pardey and U. Wood-Sichra (Oct. 2016). “Where in the World are Crops Grown?” *HarvestChoice Brief*. St. Paul, MN: International Science and Technology Practice and Policy (InSTePP) Center, University of Minnesota.

- Under revision for submission to *Nature*

Atwood, J., **A.K. Bittinger** and V. Smith (Mar. 2013) “Developing Consistent Marginal Effect Estimates in a Simultaneous Equation Model with Limited Dependent Variables.” *UMN APEC Staff Paper P13-1*. St. Paul, MN: Department of Applied Economics, University of Minnesota.

TECHNICAL REPORTS

Pardey, P.G., C. Chan-Kang, I. Luby, S.D. Senay, **A.B. Joglekar**, M. Mkondiwa, T.M. Hurley and J.M. Beddow (Dec. 2016). “Documentation: African Farming Landscapes Database, Version 2.0.” *HarvestChoice Working Paper*. St. Paul: International Science and Technology Practice and Policy (InSTePP) Center, University of Minnesota.

Wood-Sichra, U., **A.B. Joglekar** and L. You (Oct. 2016). “Spatial Production Allocation Model (SPAM) 2005: Technical Documentation.” *HarvestChoice Working Paper*. Washington, D.C.: International

Food Policy Research Institute (IFPRI) and St. Paul: International Science and Technology Practice and Policy (InSTePP) Center, University of Minnesota.

Joglekar, A.B., Z. Guo and J.M. Beddow (April 2016). “Travel Time to Agricultural Markets in Sub-Saharan Africa v2: Technical Documentation.” *HarvestChoice Working Paper*. St. Paul: International Science and Technology Practice and Policy (InSTePP) Center, University of Minnesota and Washington, D.C.: International Food Policy Research Institute (IFPRI).

Wood, S., **A.K. Bittinger**, M. Bacou, Z. Guo and M. Tenario (2010). “Characterization of Smallholder Households in Ethiopia: A Household Level Summary of the Context of Smallholder Agricultural Production.” *A Report for the Bill and Melinda Gates Foundation*.

WORK IN PROGRESS

“Shifting Spatial and Temporal Structure of Maize Production in Brazil” (*with P.G. Pardey, S.D. Senay, M. Batistella and R. Bicudo*)

“Moving Matters: The Consequences of Shifting Agricultural Production in the United States, Brazil and South Africa” (*with P.G. Pardey, S.D. Senay, J. Greyling, M. Batistella and R. Bicudo*)

“A Spatio-Temporal, Multi-Peril Assessment of Wheat Rust Losses Worldwide” (*with Y. Chai, T.M. Hurley, P.G. Pardey, J.M. Beddow and S.D. Senay*)

- Planned submission to *PNAS*

“The Changing Geography of the Minnesota Farm Economy” (*with P.G. Pardey, B. Buhr, J.M. Beddow and S.D. Senay*)

“Preliminary Quantitative Findings on MLE in Cambodia” (*with B. Krause*)

“Getting (Fertilizer) Prices Right in Tanzania.” (*with P.G. Pardey*)

PRESENTATIONS

Comparative and International Education Society (CIES) Annual Meeting. *Selected Paper* (Mar. 8, 2017)

Agricultural and Applied Economics Association (AAEA) Annual Meeting. *Selected Paper* (July 31-Aug. 2, 2016)

Comparative and International Education Society (CIES) Annual Meeting. *Selected Paper* (Mar. 9, 2016)

Minnesota Supercomputing Institute’s Informatics Interest Group. *Invited Presentation* (Sept. 2015)

International Conference on Agricultural Economics. *Selected Symposium*: Milan, Italy (Aug. 2015)

Minnesota Council on Economic Education Conference on Teaching Economics and Personal Finance: K-12. *Invited Presentation*: St. Paul, MN (July 2014)

Interdisciplinary Perspectives on International Development (IPID) Student Speaker Conference. *Selected Paper*: Minneapolis, MN (Nov. 2012)

FELLOWSHIPS, AWARDS & SCHOLARSHIPS

Heug Harrison Fellowship, University of Minnesota (2011-12)	\$36,000
Award for Excellence, Montana State University (2006)	-
Donald W. Bullock Memorial Scholarship, Montana State University (2006)	\$1,000
Armstead Scholarship, Montana State University (2005)	\$1,000
Gary Bracken Scholarship, Montana State University (2005)	\$1,000

ACTIVITIES & INVOLVEMENT

Fellow, International Science & Technology Practice and Policy, UMN (2011–Present)

Graduate Student Mentor, Department of Applied Economics, UMN (2011–2015)
Reviewer, Minnesota Council on Economic Education’s Global Food Challenge (2014)
Social Chair, Graduate Student Association, Department of Applied Economics, UMN (2011–2012)

JOURNAL REFEREE

Applied Economic Perspectives and Policies (AEPP)
American Journal of Agricultural Economics (AJAE)
African Journal of Agricultural and Resource Economics (AfJARE)
Food Policy
Journal of African Economies

PROGRAMMING SKILLS

R; ArcGIS; STATA; Matlab; Mathematica; LaTeX

REFERENCES

Philip Pardey (Supervisor, Primary Adviser), Professor, University of Minnesota
Phone: (612) 625-2766; Email: ppardey@umn.edu
Terrance Hurley (Co-Adviser), Professor, University of Minnesota
Phone: (612) 625-1238; Email: tmh@umn.edu