

Ajay S. Singh

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EDUCATION

Postdoctorate Forestry & Natural Resources, Purdue University, West Lafayette
Ph.D. Environment & Natural Resources, The Ohio State University, Columbus
B.A. Geography, University of Oregon, Eugene

ACADEMIC APPOINTMENTS

Assistant Professor Environmental Studies, CSU, Sacramento
Lecturer Environment and Natural Resources, The Ohio State University
Lecturer Geography, Butte-Glenn Community College

PROFESSIONAL APPOINTMENTS

Director, Kearns & West
Watershed Coordinator, Glenn County Resource Conservation District
Natural Resources Volunteer, Peace Corps, Honduras

COURSES TAUGHT (INSTRUCTOR OF RECORD)

Environmental Politics and Policy, CSU, Sacramento (1 course)
Environmental Science, CSU, Sacramento (5 courses)
Environmental Management and Decision-Making, CSU, Sacramento (2 courses)
International Environmental Problems, CSU, Sacramento (4 courses)
Sustainability Science and Policy, CSU, Sacramento (3 courses)
Environmental and Natural Resources Policy, The Ohio State University (2 courses)
Sustaining Human Societies and the Environment, The Ohio State University (1 course)
Society and Natural Resources, The Ohio State University (3 courses)
World Regional Geography, Butte-Glenn Community College (4 courses)
Physical Geography, Butte-Glenn Community College (1 course)

PUBLICATIONS (* INDICATES UNDERGRADUATE STUDENT)

Journal Articles

1. Prokopy, L. S., Floress, K., Arbuckle, J., Church, S., Eanes, F., Gao, Y., Gramin, B., Ranjan, P., **Singh, A. S.** (2019). Adoption of Agricultural Conservation Practices in the United States: Evidence from 35 Years of Quantitative Literature. *Journal of Soil and Water Conservation*, 74(5):520-534; doi:10.2489/jswc.74.5.520.
2. Ranjan, P., **Singh, A. S.**, Tomer, M. D., Lewandowski, A. M., & Prokopy, L. S. (2019). Lessons learned from using a decision-support tool for precision placement of conservation practices in six agricultural watersheds in the US Midwest. *Journal of Environmental Management*, 53, 57-65.
3. Eanes F., **Singh, A. S.**, Bulla, B., Ranjan, P., Fales, M., Wickerham, B., & Prokopy, L. S. (2018). Crop advisers as conservation intermediaries: Perceptions and policy implications for relying

on nontraditional partners to increase U.S. farmers' adoption of soil and water conservation practices. *Land Use Policy*, 81, 360-370.

4. Glas, Z., Getson, J., Gao, Y., **Singh, A. S.**, Easman, L., Bulla, B., Eanes F., & Prokopy, L. S. (2018). The effect of small incentives on survey response rate of agricultural producers in the Midwest. *Society and Natural Resources*, 21(2), 229-237. DOI:<https://doi.org/10.1080/08941920.2018.1530815>
5. Bruskotter, J., Vucetich, J., Slagle, K., Berardo, R., **Singh, A. S.**, & Wilson, R. (2018). Public Support for the U.S. Endangered Species Act Over Time and Space. *Conservation Letters*, 11(1). DOI: 10.1111/conl.12595. <https://onlinelibrary.wiley.com/doi/epdf/10.1111/conl.12595>
6. Haigh, T., Koundinya, V., Hart, C., Klink, J., Lemos, M. C., Saylor-Mase, A., Prokopy, L. S., **Singh, A. S.**, Todey, D., Widhalm, M. (September, 2018) The Roles of Public and Private Sectors in the Provision of Climate Decision Support Tools for Agriculture. *Bulletin of the American Meteorological Society*. DOI: <https://doi.org/10.1175/BAMS-D-17-0253.1>.
7. MacGowan, B., **Singh, A. S.**, Overstreet, B., O'Donnell, M., Klotz, H.*, & Prokopy, L. S.. (2018). Producers' Opinions on What Makes Demonstrations Effective. *Journal of Extension* 56(2).
8. **Singh, A. S.**, MacGowan, B., Urlich-Schad, J., Klotz, H.*, Overstreet, B., O'Donnell, M., Dunn, M., & Prokopy, L. S. (2018) The influence of demonstration sites and field days on adoption of conservation practices. *Journal of Soil and Water Conservation* 73(3).
9. **Singh, A. S.**, Eanes, F., & Prokopy, L. S. (2018). Assessing conservation adoption decision criteria using the Analytic Hierarchy Process: Case studies in three Midwestern watersheds. *Society and Natural Resources* 31(4): 503-507. DOI: 10.1080/08941920.2017.1413694.
10. Eanes F., **Singh, A. S.**, Bulla, B., Ranjan, P., Fales, M., Wickerham, B., Doran, P., & Prokopy, L. S. (2017). Farmer's perception of crop advisors as conduits of information on conservation practices. *Environmental Management*, 60(5): 974-988. DOI 10.1007/s00267-017-0927.
11. Berardo, R., Formica, F. V., Reutter, J., & **Singh, A. S.** (2017). Impact of land use activities in the Maumee River watershed on harmful algal blooms in Lake Erie. *Case Studies in the Environment*. DOI: <https://doi.org/10.1525/cse.2017.sc.450561>. Access through: <http://cse.ucpress.edu/content/ecs/early/2017/06/06/cse.2017.sc.450561.full.pdf>
12. **Singh, A. S.**, Zwickle, A., Bruskotter, J., & Wilson, R. (2017). Support for climate adaptation approaches in the United States: Exploring the influence of psychological distance of climate change impacts on support for collective action. *Environmental Science and Policy* (73). <http://dx.doi.org/10.1016/j.envsci.2017.04.011>.
13. Slagle, K., Bruskotter, J., **Singh, A. S.**, & Schmidt, R. H. (2017). Attitudes toward predator control in the United States: 1995 and 2014. *Journal of Mammology*, 98(1).
14. Heeran A., **Singh, A. S.**, Zwickle, A., Slagle, K., & Koontz, T. (2016). Is sustainability knowledge half the battle? An examination of sustainability knowledge, attitudes, norms, and efficacy to understand sustainable behaviours. *International Journal of Sustainability in Higher Education*, 15(5).
15. Bruskotter J., **Singh, A. S.**, Fulton, M., & Slagle, K. (2015). A policy-relevant measure of wildlife conservation behavior. *Human Dimensions of Wildlife*, 11(3).
16. Kadri A.*, Long, C.*, & **Singh, A. S.** (2015). An economic analysis of Ohio's renewable energy portfolio freeze: Justification for repealing Ohio Senate Bill 310. *Journal of Science Policy and Governance* 7(1).

Scholarly Book Chapters

1. Campbell J., **Singh, A. S.**, & Sharp, J. (2016). Climate change and the current and future impacts on rural community agency and institutions. In Schafft K., Brown, D., & Schucksmith, M. (Eds.), *International Handbook of Rural Studies*. Lexington, KY. Sage Press.
2. **Singh, A. S.**, Wilson, R., Bruskotter, J., Brooks, J., Toman, E., & Zwickle, A. (2013). The human

dimensions of ecosystem services: Understanding and solving the commons dilemma. In Lal, R., Lorenz, K., Hüttl, R.F., B.U., Schneider, B. U., & von Braun., J. (Eds.), *Ecosystem Services and Carbon Sequestration in the Biosphere*. Dordrecht, Germany: Springer.

Manuscripts in Review

1. **Singh, A. S.**, Eanes, F., & Prokopy, L. S. . Perceptions of the uncertainty of climate change in rural America: An examination of aleatoric and epistemic uncertainty and attitudes towards agricultural adaptation to climate change. Submitted to *Global Environmental Change* (09/20/2019)
2. Ranjan, P., **Singh, A. S.**, Tomer, M. D., Lewandowski, A. M., & Prokopy, L. S. Farmer engagement using a precision approach to watershed-scale conservation planning: What do we know? Submitted to *Journal of Soil and Water Conservation* (4/30/2019).
3. Lu, J., **Singh, A. S.**, Koundinya, V., Klink, J., Ranjan, P., Haigh, T., & Prokopy, L. S. Explaining the use of online agricultural decision support tools with weather or climate information in the Midwestern United States. Submitted to *Weather, Climate, & Society* (6/27/2019).
4. **Singh, A. S.**, Church, S., Dang, L., Hennes, E., & Prokopy, L. S. Does climate change framing matter? Evidence from an experiment of crop advisors in the Midwestern United States Submitted to *Climatic Change* (7/30/2019).
5. **Singh, A. S.**, Zwickle, A., Wilson, R., & Bruskotter, J. Climate Change Mitigation Policy and Temporal Distance: An examination of support for municipal level approaches to reducing greenhouse gas emissions. Submitted to *Environmental Science and Policy*.

Manuscripts in Preparation

6. Zwickle, A. & **Singh, A. S.** Thinking beyond party lines: Separating climate mitigation policy from political ideology. Will be submitted to *Nature Sustainability*.
7. Ranjan, P., Arbuckle, J, Eanes, F., Gramin, B., **Singh, A. S.**, Prokopy, L. S.. Conceptualizing and operationalizing land tenure in surveys: Recommendations for future research. Will be submitted to *Conservation Letters*.

Published Datasets (* INDICATES UNDERGRADUATE STUDENT)

1. Floress, Kristin; Gao, Yuling; Gramig, Benjamin M.; Arbuckle, J. G.; Church, Sarah P.; Eanes, Frances R.; Ranjan, Pranay; **Singh, Ajay S.**; Prokopy, Linda Stalker (2019). "Meta-analytic data from agricultural conservation practice adoption research in the United States 1982-2018". Fort Collins, CO: Forest Service Research Data Archive. <https://doi.org/10.2737/RDS-2019-0011>
2. Prasad, R.* and **Singh, A. S.** (2019). "Stinger Sustainability Report" CSU, Sacramento Scholarworks. <http://csus-dspace.calstate.edu/handle/10211.3/207802>
3. **Singh, A. S.** and Prokopy, L. S. (2018). "Agricultural Producer Perspectives on the Adoption of Conservation Practices, Water Quality, and Climate Change in Big Creek and Lime Creek Watersheds." Purdue University Research Repository. DOI: <http://doi.org/10.4231/R70P0X89>. <https://purr.purdue.edu/publications/2969/1>
4. **Singh, A. S.**, Getson, J., Esman, L., Koundinya, V., Klink, J., Mase, A., Haigh, T., Widhalm, M. and L. Prokopy. (2017). "Farmers' Climate Risk Perceptions and Use of Climate Information: 2016 Survey Data." Purdue University Research Repository. DOI: 10.4231/R78W3BBV <https://purr.purdue.edu/publications/2534/1>.
5. Koundinya, V., Klink, J., Mase, A., Robinson, C., Haigh, T., **Singh, A. S.**, Church, S., Widhalm, M., Prokopy, L. S. (2017). "Advisors' Climate Risk Perceptions and Use of Climate Information: 2016 Survey Data." Purdue University Research Repository. DOI: 10.4231/R7G44N9S. <https://purr.purdue.edu/publications/2535/1>.

GRANTS, FELLOWSHIPS, & CONTRACTS (*INDICATES EXTERNAL FUNDING SOURCE)

- 2019 "Sacramento Integrated Multimodal Place-based Living Project" Strategic Growth Council. \$480,000. Funded* Role: Co-Investigator
- 2019 "Agricultural conservation decision-making under environmental risk and uncertainty in the California central coast" Agricultural Research Initiative. \$111,447. Funded* Role: Co-PI
- 2018 "Agricultural conservation decision-making under environmental risk and uncertainty" Delta Stewardship Council and CA Dept. of Fish and Wildlife. \$233,500. Not funded*
- 2017 Research & Creative Activity Awards, CSU, Sacramento, Not funded
- 2017 NOAA Regional Integrated Sciences and Assessment Grant, Not funded*
- 2017 NOAA RESTORE Grant, Not funded*
- 2016 NSF Coupled Natural-Human Systems Grant, Not funded*
- 2016 NSF Cyber-Physical Systems Grant, Not funded*
- 2016 Purdue College of Agriculture Ag-SEED Grant, Not funded
- 2016 NOAA Regional Integrated Sciences and Assessment Grant, Not funded*
- 2015 Purdue Climate Change Research Center, \$7,000, Funded
- 2013 Ohio Division of Wildlife Contract, \$114,000, Awarded*
- 2012 Climate, Water, Carbon Grant, \$8,250, Funded
- 2012 Environmental Policy Initiative Grant, \$1,500, Funded
- 2010 Ohio Agricultural Research and Development Center Fellowship, \$55,000, Awarded
- 2007 USBR San Joaquin River Restoration Program Contract, \$375,000, Awarded*
- 2006 CALFED Watershed Action Plan Grant, \$465,000, Funded*
- 2004 CALFED Watershed Assessment and Restoration Grant, \$1,200,000, Funded*

SCHOLARLY PRESENTATIONS (*INDICATES PRESENTER; # INDICATES STUDENT)

1. **Singh, A. S.*** (2019, June; **Invited**). Environmental Studies and Sciences at Minority-Serving Institutions. Panel at the Association of Environmental Sciences and Studies Annual Meeting. Orlando, FL.
2. **Singh, A. S.*** (2019, June). Climate Neutrality on a Commuter Campus: Strategies and Challenges. Presented at the Association of Environmental Sciences and Studies Annual Meeting. Orlando, FL.
3. Prasad, R.*#, **Singh, A. S.*** (2019, March). Carbon Futures for Commuter Campuses: Assessing student carbon emissions. Presented at This Way To Sustainability annual conference. Chico, CA.
4. Zwickle, A.*, **Singh, A. S.** (2018, December). *Thinking beyond party lines: Separating climate mitigation policy from political ideology*. Presented at the International Society for Risk Analysis annual meeting. New Orleans, LA.
5. Zwickle, A.*, **Singh, A. S.** (2018, June). *Thinking beyond party lines: Separating climate mitigation policy from political ideology*. Presented at International Symposium for Society and Natural Resource Management. Salt Lake City, UT.
6. Arbuckle, J, Church, S.*, Eanes, F.*, Flores, K., Gao, Y.*, Gramin, B., Prokopy, L. S.*, Ranjan, P.*, **Singh, A. S.*** (2018, June). *Panel discussion on the motivations and barriers for the adoption of conservation practices*. Presented at International Symposium for Society and Natural Resource Management. Salt Lake City, UT.
7. **Singh, A. S.***, Eanes, F. (2017, October). *Communicating the uncertainty of climate change to a skeptical population: An examination of aleatoric and epistemic uncertainty and attitudes towards adaptation*. Presented to the Association of Pacific Coast Geographers. Chico, CA.
8. Prokopy, L. S.*, Eanes, F., Church, S., Ranjan, P., Arbuckle, J, Flores, K., **Singh, A. S.** (2017, July). *Meta-review of barriers and motivations for farmers to adopt conservation practices*. Presented at the Soil and Water Conservation Society International Annual Conference. Madison, WI.

9. Prokopy, L. S.*, Eanes, F., Church, S., **Singh, A. S.** (2017, July). *Leveraging Crop Advisers to deliver agricultural conservation advice and increase the adoption of conservation practices*. Presented at the Soil and Water Conservation Society International Annual Conference. Madison, WI.
10. **Singh, A. S.*** & Prokopy, L. S. (2017, June). *Framing Conservation Communication: The influence of framing information on recommendations to adopt climate change adaptation measures*. Presented at the Association of Environmental Sciences and Studies Annual Meeting. Tuscon, AZ.
11. **Singh, A. S.*** & Prokopy, L. S. (2017, April, **Co-organizer**). *A Need for Closure on Climate Change: An assessment of farmers' perceptions of climate uncertainty and their willingness to adapt*. Presented at the Association of American Geographers Annual Meeting. Boston, MA.
12. **Singh, A. S.*** & Prokopy, L. S. (2016, August, **Invited**). *Adoption of agricultural conservation practices in the Mississippi River Basin to address hypoxia in the Gulf of Mexico*. Presented at American Fisheries Society Annual Conference. St. Louis, MO.
13. Prokopy, L. S.* & **Singh, A. S.** (2016, July). *Epistemic Trust and Agricultural Conservation Decisions*. Soil and Water Conservation Society International Annual Conference. Louisville, KY.
14. **Singh, A. S.***, Klotz, H., MacGowan, B., Prokopy, L. S. (2016, June, **Co-organizer**). *Planting seeds, growing conservation practices: Field days and demonstration events and adoption of conservation practices*. Presented at International Symposium for Society and Natural Resource Management. Houghton, MI.
15. Campbell, J.*, Sharp, J., **Singh, A. S.** (2015, August). *Application of the community capitals framework to understand adaptive capacity to climate change*. Presented at the Rural Sociology Society Annual Meeting. Madison, WI.
16. **Singh, A. S.** (2015, June). *Can we assess our tolerance of Gray Wolves? A presentation of results of a national survey*. Presented at the Association of Environmental Sciences and Studies Annual Meeting. San Diego, CA.
17. Ruseva, T.*, & **Singh, A. S.** (2015, May). *Rule embeddedness and institutions for private land conservation in the United States*. Presented at the International Association for the Study of the Commons. Edmonton, Alberta Canada.
18. Zwickle, A.*, Koontz, T., Heeran, A., Slagle, K., & **Singh, A. S.** (2014, October). *Is sustainability knowledge half the battle? An examination of sustainability knowledge and the Theory of Planned Behavior*. Paper presented at the Association for the Advancement of Sustainability in Higher Education Conference and Expo. Portland, OR.
19. Slagle, K.*, Wilson, R., **Singh, A. S.**, & Bruskotter, J. (2014, September). *Attitudes toward predator control in the United States*. Pathways: Presented at Pathways: Integrating Human Dimensions into Fish and Wildlife. Estes Park, CO.
20. **Singh, A. S.** (2014, June, **Invited**). *Using and adapting the IAD and SES frameworks to address water quality improvements in California*. Presented at Workshop on the Workshop 5. Bloomington, IN.
21. **Singh, A. S.** (2014, March). *Psychological distance and support for climate change mitigation and adaptation policy*. Presented at the Western Political Science Association. Seattle, WA.
22. **Singh, A. S.** (2013, June, **Organizer**). *Climate adaptation and mitigation policy framing: Application of psychological distance to policy support*. Presented at the Association of Environmental Sciences and Studies. Pittsburg, PA.
23. **Singh, A.S.** (2013, March). *Incorporating science into climate decision-making processes*. Paper presented at the American Society of Public Administrators. New Orleans, LA.
24. **Singh, A. S.***, & Koontz, T. (2011, September). *Climate science and policy: Effective development and use of science in policy making*. Paper presented at the American Political Science Association Annual Conference. Seattle, WA.

25. **Singh, A. S.** (2011, June). *Climate science and policy: Effective development and use of science in policy making*. Presented at International Symposium for Society and Natural Resource Management. Madison, WI.

EXTENSION PRESENTATIONS (*INDICATES PRESENTER)

1. Babbar-Sebens, M.* & **Singh, A. S.*** (2018, April, **Invited**). *From Identifying to Integrating Stakeholder Preferences in Design of Conservation Plans for Adaptation to Climate Change*. Northeast Climate Science Center (Webinar).
2. **Singh, A. S.***, Church, S., & Prokopy, L. S. (2016, January **Invited**). *Use of social indicators in watershed management*. Indiana Watershed Leadership Academy, Indiana Department of Natural Resources.
3. **Singh, A. S.*** & Bruksotter, J. (2014, April **Invited**). *Fishing attitudes and behaviors of Ohio River anglers*. Ohio Catfish Summit, Ohio Department of Natural Resources, Division of Wildlife.
4. **Singh, A. S.** (2008, September **Invited**). *Stakeholder involvement in watershed restoration planning*. California Society for Ecological Restoration. Sebastapol, CA.
5. **Singh, A. S.** (2008, June). *Environmental compliance process for river restoration projects*. Salmon Restoration Federation Annual Conference. Lodi, CA.
6. **Singh, A. S.** (2006, January, **Invited**). *Environmental conflict along the Sacramento River*. Sacramento River Restoration Conference. Chico, CA.

INVITED TALKS AND LECTURES

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| 2018 | “Human Subjects Review for Environmental Science Research” Environmental Studies 158. CSU, Sacramento. |
| 2018 | “Common Pool Resources and the Tragedy of the Commons” Environmental Studies 112. CSU, Sacramento. |
| 2018 | “Sustainability and Food Systems” Dietician Internship Program. Family and Consumer Sciences. CSU, Sacramento. |
| 2017 | “Framing Climate Communications: Farmer perceptions of climate change and climate uncertainty”. Environmental Studies Seminar Series. Environmental Studies, CSU, Sacramento. |

PROFESSIONAL SERVICE & LEADERSHIP

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| 2019- | Member, Professional Publications Committee, AESS |
| 2017- | Editorial Board Member, Case Studies in the Environment |
| 2012-2013 | Editor-in-Chief, Journal of Science Policy and Governance |
| 2010-2012 | Editorial Board Member, Journal of Science Policy and Governance |
| 2018- | Reviewer, Environmental Science and Policy (2), Land Use Policy (3), Sustainability Science (2), Environment and Behavior (1), Agroecology and Sustainable Food Systems (2), Society and Natural Resources (2), Journal of Extension (2), Journal of Water Resources and Planning (1), Ecology and Society (1), Journal of American Water Resources Association (2), Rural Studies (1), Human Dimensions of Wildlife (2), Environment, Systems, and Decisions (1), Council on Undergraduate Research Quarterly (1) |

DEPARTMENT, COLLEGE, AND UNIVERSITY SERVICE

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| 2018 | Faculty Fellows, College of Social Science and Interdisciplinary Sciences |
| 2018-2019 | Hiring Committee, Department of Environmental Studies, College of Social Science and Interdisciplinary Sciences |
| 2018-2019 | Faculty Advisor, Peace Corps Preparation Certificate Program |

- 2017-2020 Member, Curriculum Committee, College of Social Science and Interdisciplinary Sciences
- 2017-2018 Faculty Advisor, Indian Student Association

SERVICE TO COMMUNITY

- 2019- Member, Department of Water Resources Flood-MAR Sub-committees (Crop suitability, People and Water)
- 2018- Adviser, Social science research lab, CA Department of Fish and Wildlife
- 2018-2019 Report on use of climate information by crop advisors, USDA Climate Hubs
- 2014- Board of Trustees, Kanor Scholarship Fund, Rajasthan College of Agriculture
- 2017- Volunteer Whitewater Raft Guide, Friends of the River

AWARDS

- 2018 California Higher Education Sustainability Conference Best Practice Award (Nominated; Not awarded)
- 2017 Association for the Advancement of Sustainability in Higher Education Research Award (Nominated; Not awarded)
- 2016 National Socio-Environmental Synthesis Center (SESYNC) Award
- 2012 Doctoral Teaching Scholars Award, The Ohio State University

PROFESSIONAL SOCIETY MEMBERSHIP

- 2016- Association of American Geographers
- 2016- American Fisheries Society
- 2012- Association of Environmental Sciences and Studies
- 2011- Western Political Science Association
- 2011- International Association for the Society and Natural Resources
- 2011- American Political Science Association

RESEARCH IN THE MEDIA

- 2019 Cap Radio News with Ezra Romero, Interview regarding Trumps administration’s changes to ESA implementation. Aired 8/12/19
- 2019 Insight with Beth Ruyack on NPR, “Transformative Climate Communities” <https://tinyurl.com/yxe7k6jv>
- 2019 Weekend Edition Sunday on NPR “As Grizzlies Come Back, Frustrations Builds Over Continued Protections” <https://tinyurl.com/y347egz3>
- 2019 Wiley Online Library provides a list of 69 news outlets that have cited the research article. Altmetric = 605 (Top 5% of all articles) <https://wiley.altmetric.com/details/45250973/news>
- 2018 CSU, System News “Is the Endangered Species Act at Risk of Extinction?” <https://tinyurl.com/y33mouvg>