

Biographical Sketch

Carol L. Silva

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A. PROFESSIONAL PREPARATION

| | | | |
|--------------------------|-----------------|-------------------|-------------|
| University of New Mexico | Albuquerque, NM | Political Science | B.A., 1989 |
| University of Rochester | Rochester, NY | Political Science | M.A., 1996 |
| University of Rochester | Rochester, NY | Political Science | Ph.D., 1998 |

B. APPOINTMENTS

| | |
|----------------|---|
| 2019 | Director, Center for Faculty Excellence |
| 2017 – present | Edith Kinney Gaylord Presidential Professor of Political Science |
| 2015 – present | Professor, Department of Political Science, University of Oklahoma |
| 2010 – present | Director, Center for Risk and Crisis Management, University of Oklahoma |
| 2014 – present | Co-Director, National Institute of Risk & Resilience, University of Oklahoma |
| 2007 – 2013 | Associate Professor, University of Oklahoma |
| 2003 – 2007 | Assistant Professor, George Bush School of Government and Public Service |
| 2001 – 2003 | Assistant Professor, Department of Political Science, Texas A&M University |
| 1994 – 2001 | Research Scientist & Associate Director, UNM Institute for Public Policy, University of New Mexico. |
| 1999 – 2000 | Research Associate, Center for Economic Research, University of Rochester |

C. PRODUCTS

(i) Most Closely Related to the Proposed Project

1. Benjamin A. Jones, Robert P. Berrens, Hank C. Jenkins-Smith, **Carol L. Silva**, Deven E. Carlson, and Joseph T. Ripberger. 2019. Inclusive Non-Market Valuation in Coupled Human and Natural Systems (CHANS): A Motivating Theory and Application to Hydroelectric Dams. *Journal of Environmental Economics and Policy*. 8:1-16. DOI: <https://doi.org/10.1080/21606544.2018.1479315>
2. Jenkins-Smith, H. C., Ripberger, J. T., **Silva, C. L.**, Carlson, N., Ripberger, K., Henderson, M., Goodin, A. (2017). The Oklahoma Meso-Scale Integrated Socio-geographic Network: A Technical Overview. *Journal of Atmospheric and Oceanic Technology*. <https://doi.org/10.1175/JTECH-D-17-0088.1>. <http://journals.ametsoc.org/doi/abs/10.1175/JTECH-D-17-0088.1?af=R>
3. Jones, B. A., Berrens, R. P., Jenkins-Smith, H. C., **Silva, C. L.**, Carlson, D. E., Ripberger, J. T., Gupta, K., & Carlson, N. 2016. Valuation in the Anthropocene: Exploring options for alternative operations of the Glen Canyon Dam. *Water Resources and Economics*. 14: 13-30.
4. Kahan, Dan M. and Hank Jenkins-Smith, Tor Tarantola, **Carol L Silva**, and Donald Braman. 2015. Geoen지니어ing and Climate Change Polarization: Testing a Two-channel Model of Science Communication. *Annals of American Academy of Political & Social Sci.* 658: 192-222.
5. Berrens, R., A. Bohara, H. Jenkins-Smith, **C. Silva**, and D. Weimer. 2003. The Advent of Internet Surveys for Political Research: A Comparison of Telephone and Internet Samples. *Political Analysis*. 11(1):1-22.

(ii) Other Significant Products

1. Ripberger, J. T., Jenkins-Smith, H. C., **Silva, C. L.**, Carlson, D. E., Ripberger, K., Carlson, N., R. D. (2017). Bayesian versus Politically Motivated Reasoning in Human Perception of Climate Anomalies.

Environmental Research Letters. 10.1088/1748-9326/aa8cfc.

<http://iopscience.iop.org/article/10.1088/1748-9326/aa8cfc>

2. Carlson, D., Ripberger, J., Jenkins-Smith, H., **Silva, C.**, Gupta, K., Berrens, R., & Jones, B.A. 2016. Contingent valuation and the policymaking process: An application to used nuclear fuel in the United States. *Journal of Benefit-Cost Analysis*. 7(3):459-487.
3. Jenkins-Smith, Hank, **Carol L. Silva**, Kuhika Gupta, and Joseph T. Ripberger. 2014. Belief System Continuity and Change in Policy Advocacy Coalitions: Using Cultural Theory to Specify Belief Systems, Coalitions, and Sources of Change. *The Policy Studies Journal*. 42(4).
4. Robert Berrens, Alok Bohara, Hank Jenkins-Smith, **Carol L. Silva**, and David Weimer. 2004. "Information and Effort in Contingent Valuation Surveys: Application to Global Climate Change Using National Internet Samples. *Journal of Environmental Economics and Management*. 47(1): 331–363.
5. Berrens, R., A. Bohara, **C. Silva**, M. Mckee and D. Brookshire. 2000. Contingent Values for New Mexico Instream Flows: With Tests of Scope, Group Size Reminder and Temporal Reliability. *The Journal of Environmental Management*. 58(1):73-90.

D. SYNERGISTIC ACTIVITIES

- *Center for Faculty Excellence (2019)*: As the Director of this new Center, I have the opportunity to oversee the planning, development and implementation of the CFE which will bring together the numerous faculty development resources scattered across the OU campus. The CFE will strive to support faculty success and well-being in all stages of their careers by providing the resources and skills necessary to enhance teaching, extend research, engage in their communities, and foster leadership in an environment that encourages a culture of collegial support, inclusiveness, and excellence.
- *Disasters and Risk Perception (2005-present)*: Initiated in 2005, this project began with a SGER grant from NSF (SGER 6525967) to explore the role of risk perception in the immediate aftermath of hurricanes Katrina and Rita. It generated survey data that included samples of evacuated individuals, and spawned important collaborations in disaster and risk. This project evolved into a set of research collaborations associated with measuring risk perceptions of various populations associated with other controversial policy problems such as climate change, severe weather, and hazardous facility siting.
- *Weather, Climate and Public Policy (2007-present)*: A group of projects and collaborations with the University of Oklahoma's National Weather Center. This includes participation in the \$75 million competition for OU's Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) Center with NOAA. An important part of this collaboration includes studying the societal impacts of weather extremes and climate variability—particularly individual and community response to tornadoes, drought, ice storms, and climate change.
- *Preference Formation and Elicitation in Valuing Non-Market Goods (1997-present)*: This project, based on an NSF grant (R824679), has focused on understanding how individuals make choices about costly public strategies to achieve public goods (e.g., greenhouse gas reductions via carbon taxes) when faced with substantial complexity and scientific uncertainty. This project has resulted in numerous publications in leading peer-reviewed journals.