

# Andrew D. Jones

Lawrence Berkeley National Laboratory, One Cyclotron Road, MS 74-316C, Berkeley, CA 94720  
Tel: 1-510-486-5114 Fax: 1-510-486-7775 Email: adjones@lbl.gov

<b>Education</b>	Ph.D. Energy and Resources Group, UC Berkeley	May 2012
	M.S. Energy and Resources Group, UC Berkeley	Dec 2007
	B.A. Mathematics & Psychology, Washington University in St Louis	May 2001
<b>Professional Experience</b>	Program Domain Lead for Earth Systems and Society, LBNL	2015 – Present
	Research Scientist, LBNL	2014 – Present
	Deputy Director, Climate Readiness Institute	2014 – 2019
	Postdoctoral Fellow, LBNL	2012 – 2013
	Graduate Student Researcher, Lawrence Berkeley National Laboratory (LBNL)	2009 – 2012
	Graduate Student Researcher, University of California, Berkeley	2004 – 2009
	Founder & Board Member, Community Arts and Movement Project	2002 – 2004
	Research Assistant, Washington University in St. Louis	1999 – 2002
<b>Awards &amp; Fellowships</b>	Environmental Protection Agency STAR Graduate Research Fellowship	2006 – 2009
	National Science Foundation Graduate Research Fellowship	2004 – 2006
	Graduated Summa Cum Laude	2001
	Member Phi Beta Kappa honorary society	2001
<b>Peer-Reviewed Publications (29)</b>	Moss, R.H., S. Avery, K. Baja, M. Burkett, S. William, A.M. Chischilly, J. Dell, P.A. Fleming, K. Geil, K. Jacobs, A. <b>Jones</b> , et al. (2019), A Framework for Sustained Climate Assessment in the United States, accepted at Bulletin of the American Meteorological Society, <a href="https://doi.org/10.1175/BAMS-D-19-0130.1">https://doi.org/10.1175/BAMS-D-19-0130.1</a>	
	Vahmani, P., A.D. <b>Jones</b> , and C. Patricola (2019), Interacting implications of climate change, population dynamics, and urban heat mitigation for future exposure to heat extremes, accepted at Environmental Research Letters, <a href="https://doi.org/10.1088/1748-9326/ab28b0">https://doi.org/10.1088/1748-9326/ab28b0</a> .	
	Calvin, K.V., X. Shi, A.D. <b>Jones</b> , A. DiVittorio, B. Bond-Lamberty, P.E. Thornton (2019), Characteristics of human-climate feedbacks differ at different radiative forcing levels, accepted at Global and Planetary Change, <a href="https://doi.org/10.1016/j.gloplacha.2019.06.003">https://doi.org/10.1016/j.gloplacha.2019.06.003</a> .	
	Moss, R.H., S. Avery, K. Baja, M. Burkett, S. William, A.M. Chischilly, J. Dell, P.A. Fleming, K. Geil, K. Jacobs, A. <b>Jones</b> , et al. (2019), Evaluating Knowledge to Support Climate	

Action: A Framework for Sustained Assessment, Weather Climate and Society,  
doi.org/10.1175/WCAS-D-18-0134.1.

- Rhoades, A. M., A. D. **Jones**, P. A. Ullrich (2018), The Changing Character of the California Sierra Nevada as a Natural Reservoir, *Geophysical Research Letters*, 45, doi:10.1029/2018GL080308.
- Jones**, A. D., K. V. Calvin, X. Shi, A. V. DiVittorio, B. Bond-Lamberty, P. E. Thornton, W. D. Collins (2018), Quantifying human-mediated carbon cycle feedbacks, *Geophysical Research Letters*, 45, doi:10.1029/2018GL079350.
- Ullrich, P. A., Z. Xu, A.M. Rhoades, M.D. Dettinger, J. F. Mount, A. D. **Jones**, P. Vahmani (2018), California's Drought of the Future: A Midcentury Recreation of the Exceptional Conditions of 2012-2017, *Earth's Future*, 6, 1568-1587, doi:10.1029/2018EF001007.
- Rhoades, A. M., A. D. **Jones**, P. A. Ullrich (2018), Assessing Mountains as Natural Reservoirs with a Multi-Metric Framework, *Earth's Future*, 6, doi:10.1002/2017EF000789.
- Mayer, A., Z. Hausfather, A. **Jones**, W. Silver (2018), The Potential of Agricultural Land Management to Contribute to Lower Global Surface Temperatures, *Science Advances*, 4, doi:10.1126/sciadv.aaq0932.
- Vahmani, P. and A. D. **Jones**. (2017), Water conservation benefits of urban heat mitigation, *Nature Communications*, 8:1072, doi: 10.1038/s41467-017-01346-1.
- Thornton, P.E., K. Calvin, A.D. **Jones**, A.V. Di Vittorio, B. Bond-Lamberty, L. Chini, X. Shi, J. Mao, W.D. Collins, J. Edmonds, A. Thomson, J. Truesdale, A. Craig, M.L. Branstetter, G. Hurtt (2017), Biospheric feedback effects in a synchronously coupled model of Earth and human systems, *Nature Climate Change*, doi:10.1038/nclimate3310.
- Lawrence, D. M., G. C. Hurtt, A. Arneth, V. Brovkin, K. V. Calvin, A. D. **Jones**, C. D. Jones, P. J. Lawrence, N. de Noblet-Ducoudré, J. Pongratz, S. I. Seneviratne, and E. Shevliakova (2016), The Land Use Model Intercomparison Project (LUMIP): Rationale and experimental design, *Geoscientific Model Development* 9, 2973, doi:10.5194/gmd-2016-76.
- Jones**, A.D., K. V. Calvin, W. D. Collins, J. Edmonds (2015), Accounting for radiative forcing from albedo change in future global land-use scenarios, *Climatic Change*, 131, 691-703, doi: 10.1007/s10584-015-1411-5.
- Collins, W. D., A. Craig, J. Truesdale, A. D. **Jones**, A. V. DiVittorio, Y. Zhou, J. A. Edmonds, A. M. Thomson, L. P. Chini, B. Bond-Lamberty, S. H. Kim, P. E. Thornton, J. Miao, X. Shi (2015), The Integrated Earth System Model (iESM): Formulation and Functionality, *i Geoscientific Model Development*, 8, 2203-2219, doi:10.5194/gmd-8-2203-2015.

- Di Vittorio, A. V., L. P. Chini, B. Bond-Lamberty, J. Mao, X. Shi, J. Truesdale, A. Craig, K. Calvin, A. D. **Jones**, W. D. Collins, J. Edmonds, G. C. Hurtt, P. Thornton, A. Thomson, (2014), From land use to land cover: restoring the afforestation signal in a coupled integrated assessment – earth system model and the implications for CMIP5 RCP simulations, *Biogeosciences*, 11, 6435-6450, doi:10.5194/bg-11-6435-2014.
- Bond-Lamberty, B., K. V. Calvin, A. D. **Jones**, J. Mao, P. Patel, X. Shi, A. Thomson, P. Thornton, Y. Zhou (2014), On linking an Earth system model to the equilibrium carbon representation of an economically optimizing land use model, *Geoscientific Model Development*, 7, 2545-2555, doi:10.5194/gmd-7-2545-2014.
- Calvin, K. V., M. Wise, L. Clarke, J. Edmonds, A. D. **Jones**, A. Thomson (2014), Near-term limits to mitigation: challenges arising from contrary mitigation effects from indirect land-use change and sulfur emissions, *Energy Economics*, 42, 233-239, doi:10.1016/j.eneco.2013.09.026.
- Jones**, A. D., W. D. Collins, and M. S. Torn (2013), On the additivity of radiative forcing between land use change and greenhouse gases, *Geophysical Research Letters*, 40(15), 4036-4041, doi:10.1002/grl.50754.
- Jones**, A. D. et al. (2013), Greenhouse gas policies influence climate via direct effects of land use change, *J of Climate*, 26(11), 3657-3670, doi:10.1175/JCLI-D-12-00377.1.
- Jones**, A. D., K. V. Calvin, W. D. Collins, J. Edmonds (2013), Towards a more consistent treatment of land-use change within climate assessment, In: *Impacts World 2013 Conference Proceedings*, Potsdam Institute for Climate Impact Research, pp 462-469, doi:10.2312/pik.2013.001.
- Levis, S., G. B. Bonan, E. Kluzek, P. E. Thornton, A. **Jones**, W. J. Sacks, and C. J. Kucharik (2012), Interactive crop management in the Community Earth System Model (CESM1): Seasonal influences on land-atmosphere fluxes, *J. Climate*, 25(14), 4839-4859, doi:10.1175/JCLI-D-11-00446.1.
- Plevin, R. J., M. O'Hare, A. D. **Jones**, M. S. Torn, and H. K. Gibbs (2010), Greenhouse Gas Emissions from Biofuels' Indirect Land Use Change Are Uncertain but May Be Much Greater than Previously Estimated, *Environmental Science & Technology*, 44(21), 8015-8021, doi:10.1021/es101946t.
- Lemoine, D. M., R. J. Plevin, A. S. Cohn, A. D. **Jones**, A. R. Brandt, S. E. Vergara, and D. M. Kammen (2010), The climate impacts of bioenergy systems depend on market and regulatory policy contexts, *Environmental Science & Technology*, 44(19), 7347-7350, doi:10.1021/es100418p.
- Hertel, T. W., A. A. Golub, A. D. **Jones**, M. O'Hare, R. J. Plevin, and D. M. Kammen (2010), Effects of US Maize Ethanol on Global Land Use and Greenhouse Gas Emissions: Estimating Market-mediated Responses, *BioScience*, 60(3), 223-231, doi:10.1525/bio.2010.60.3.8.

- O'Hare, M., R. J. Plevin, J. I. Martin, A. D. **Jones**, A. Kendall, and E. Hopson (2009), Proper accounting for time increases crop-based biofuels' greenhouse gas deficit versus petroleum, *Environ. Res. Lett.*, 4(2), 024001, doi:10.1088/1748-9326/4/2/024001.
- Kammen, D. M., A. E. Farrell, R. J. Plevin, A. D. **Jones**, G. F. Nemet, and M. A. Delucchi (2008), Energy and greenhouse gas impacts of biofuels: a framework for analysis, OECD Research Roundtable, doi:10.1787/235683015007.
- Farrell, A. E., R. J. Plevin, B. T. Turner, A. D. **Jones**, M. O'Hare, and D. M. Kammen (2006), Ethanol can contribute to energy and environmental goals, *Science*, 311(5760), 506-508, doi:10.1126/science.1121416.
- Jones**, A. D., R. Y. Cho, L. E. Nystrom, J. D. Cohen, and T. S. Braver (2002), A computational model of anterior cingulate function in speeded response tasks: Effects of frequency, sequence, and conflict, *Cognitive, Affective, & Behavioral Neuroscience*, 2(4), 300-317, doi:10.3758/CABN.2.4.300.
- Cho, R. Y., L. E. Nystrom, E. T. Brown, A. D. **Jones**, T. S. Braver, P. J. Holmes, and J. D. Cohen (2002), Mechanisms underlying dependencies of performance on stimulus history in a two-alternative forced-choice task, *Cognitive, Affective, & Behavioral Neuroscience*, 2(4), 283-299, doi:10.3758/CABN.2.4.283.

## Reports & Working Papers

- Ackerly, D. D., A. D. **Jones**, M. Stacey, B. Riordan (2018), San Francisco Bay Area Regional Report, California's Fourth Climate Change Assessment, Report SUM-CCCA4-2018-05.
- Albert, A.T., Rhoades, A.M., Feldman, A.D., **Jones**, A.D., Ganguly, S., and Prabhat, M (2018), Towards Generative Deep Learning Emulators for Hydroclimate Simulations: Application to Snowpack Modeling, accepted paper for the 2018 Climate Informatics Workshop in Boulder, Colorado, 19-21 Sep.
- Jones**, A. D., K. Calvin, and J.-F. Lamarque (2016), Climate modeling with decision makers in mind, *Eos*, 97, doi:10.1029/2016EO051111.
- Williams, J.H., B. Haley, F. Kahrl, J. Moore, A.D. **Jones**, M.S. Torn, H. McJeon (2014), Pathways to deep decarbonization in the United States. The U.S. report of the Deep Decarbonization Pathways Project of the Sustainable Development Solutions Network and the Institute for Sustainable Development and International Relations.
- Farrell, A. E., D. Sperling, et al. (2007), A Low-Carbon Fuel Standard for California, Part 2: Policy Analysis, *Regents of the University of California*, for California Air Resources Board ([http://www.arb.ca.gov/fuels/lcfs/lcfs\\_uc\\_p2.pdf](http://www.arb.ca.gov/fuels/lcfs/lcfs_uc_p2.pdf)).
- Farrell, A. E., Sperling D., et al. (2007), A Low-Carbon Fuel Standard for California, Part 1: Technical Analysis, *Regents of the University of California*, for California Air Resources Board ([http://www.arb.ca.gov/fuels/lcfs/lcfs\\_uc\\_p1.pdf](http://www.arb.ca.gov/fuels/lcfs/lcfs_uc_p1.pdf)).

**Jones, A. D., M. O'Hare, A. D. Farrell (2007), Biofuel Boundaries: Estimating the Near-Term Supply Potential of Domestic Biofuels, UC Berkeley Transportation Sustainability Research Center, Paper UCB-ITS-TSRC-RR-2007-4**  
(<http://escholarship.org/uc/item/950662sc>).

Plevin, R. J., and A. D. **Jones** (2005), Organic Ethanol. Renewable and Appropriate Energy Lab Working Paper, 2005. (<http://plevin.berkeley.edu/docs/Plevin-Jones-Organic-EtOH-Working-Paper-v1.pdf>).

**Recent  
Invited Talks**

Jones, A.D. and A. Hall (2019), Turning Climate Science into Action: A Tale of Two Cities, Invited panel discussion at launch event for the California Climate Expedition, Berkeley, CA, 9 Jun.

Jones, A.D., K. Jagannathan, K. Geil, A. Rhoades. P. Ullrich, B. Riordan (2019) Improving the decision-relevance of climate science for adaptation planning, Invited keynote address for University of California Agriculture and Natural Resources workshop on Integrating Climate Change in California Cooperative Extension Programs, Merced, CA, 23 Jan.

Jones, A.D. (2019), What does climate resilience look like for cities? Invited keynote address for the Building Efficiency for a Sustainable Tomorrow (BEST) workshop, Berkeley, CA, 10 Jan.

Jones, A.D., K. Geil, K. Jagannathan (2018), Assessing climate information in use context, Invited abstract PA52B-06, presented at the 2018 Fall Meeting, AGU, Washington, DC, 10-14 Dec.

Jones, A.D., K. Jagannathan, A. Rhoades, A. Srivastava, R. Grotjahn, P. Ullrich (2018), Decision-relevant metrics for regional hydroclimate phenomena, Invited abstract GC14C-01, presented at the 2018 Fall Meeting, AGU, Washington, DC, 10-14 Dec.

Jones, A.D., B Riordan (2018), Climate Change in the San Francisco Bay Area, Invited talk presented at the San Francisco Public Utility Commission, San Francisco, CA, 31 Oct.

Jones, A.D. (2018) Assessment: An evolving tool to support action, invited panelist at Global Climate Action Summit, Science to Action Day, San Francisco, CA, 11 Sep.

Jones, A.D. et al. (2018), Understanding hydroclimate data with use-inspired metrics, presented at the Energy Modeling Forum workshop on Analyses of Multi-Sector Energy and Environmental Dynamics, Snowmass, CO, 18-20 July.

Jones, A.D. (2018), Climate Risks in California, testimony presented at California Senate Environmental Quality Committee special hearing on "Implementation of California Climate Adaptation Policies", CA State Capitol, 11 April.

Jones, A.D. (2018), Rational Numbers: Improving the Usability of Science for a Climate Resilient Society, presented at the Energy and Resources Group Colloquium, University of CA, Berkeley, 14 March.

- Jones, A.D. (2018), Climate Risks to California Infrastructure, presented at legislative briefing “How to Prepare California’s Infrastructure for Climate Change”, CA State Capitol, 30 Jan.
- Jones, A.D., K. Jagannathan, P. Ullrich (2017), Scientist-Practitioner Engagement to Inform Regional Hydroclimate Model Evaluation, Invited Abstract PA43D-08 presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- Jones, A.D., K. Jagannathan, K. Calvin, J. Lamarque, P Ullrich (2016), Climate Modeling and Analysis with Decision Makers in Mind, Invited Abstract U42A-05 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
- Jones, A. D. (2016), Climate Modeling and Analysis with Decision Makers in Mind, presented at the Berkeley Energy and Resources Collaborative Roundtable on the Energy-Water Nexus, Berkeley, CA, 2 Nov.
- Jones, A. D. (2016), Earth Systems and Society, presented at the Silicon Valley Leadership Group’s Environmental Committee, San Jose, CA, 7 Oct.
- Jones, A. D., K. Calvin, J. Lamarque (2016), Impact Relevance and Usability of High Resolution Climate Modeling and Datasets, presented at the Energy Modeling Forum Workshop on Climate Change Impacts and Integrated Assessment, Snowmass, CO, 25-29 July.
- Jones, A. D. (2016), Cities and Climate Change, presented at the Philomathia Forum on Energy and Environment: Cities and People: Responding to Global Warming, Berkeley, CA, 18 Feb.
- Jones, A. D., H. McJeon, W. Shi, M. Muratori (2015), The Natural Gas Bridge for US Climate Mitigation, presented at the Joint Global Change Research Institute Integrated Assessment Workshop, College Park, MD, 1-4 Dec.
- Jones, A.D. (2015), Big Changes for a Small Planet: The Causes and Consequences of Climate Change, presented at the Dominican University Climate Change Initiative Inaugural Event, Dominican University, San Rafael, CA, 16 Sep.
- Jones, A.D. (2015), Choosing Climate Models for Impacts Research in Latin America, presented at the Latin America Modeling Project Workshop, Rio De Janeiro, Brazil, 13 May.
- Jones, A. D. (2014), The Climate Readiness Institute: Partnering academics and practitioners to address climate change at the local scale, presented at the Climate and Health Idea Lab, UC Berkeley, Berkeley, CA, 3 Nov.
- Jones, A. D., W. D. Collins, M. S. Torn, K. V. Calvin, J. Edmonds (2014), Land use scenarios to meet multiple needs for CMIP6, presented at Aspen Global Change Institute Workshop on Experimental Design for CMIP6: Aerosol, Land Use, and Future Scenarios, Aspen, CO, 5 Aug.

Jones, A. D. (2014), Using climate model projections for impacts analysis, presented at the Latin America Modeling Project Workshop, Bogota, Colombia, 28 May.

Jones, A. D. (2013), The role of land-use change in shaping future patterns of climate, presented at the Pardee Center for the Study of the Longer Range Future, Boston University, Boston, MA, 14 Aug.

**Selected  
Presentations  
Since 2008**

Jones, A.D., K.V. Calvin, X. Shi, A. DiVittorio, B. Bond-Lamberty, P. Thornton, W.D. Collins (2019), Quantifying human-mediated carbon cycle feedbacks, Abstract EGU2019-4501 presented at the EGU General Assembly, 7-12 Apr.

Albert, A.T., A. Rhoades, S. Ganguly, D. Feldman, A.D. Jones, Mr. Prabhat (2018), Towards Generative Deep Learning Emulators for Fast Hydroclimate Simulations, Abstract IN21C-0723 presented at the 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec.

Vahmani, P., A.D. Jones (2018), Implications of cool roofs for future exposure to heat extremes in California, Abstract GC41G-1542 presented at the 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec.

Shi, X., J. Mao, A.D. Jones, K.V. Calvin, B. Yan, B. Bond-Lamberty (2018), Investigating the Effects of CO<sub>2</sub> Concentration and Human Intervention on the Water Cycle Using Integrated Earth System Model (iESM), Abstract GC31D-1289 presented at the 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec.

DiVittorio, A.V., X. Shi, B. Bond-Lamberty, K.V. Calvin, A.D. Jones (2018), Land use and land cover distribution is a primary determinant of global carbon cycle projections and regional temperature projections, Abstract GC13A-03 presented at the 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec.

Ullrich, P.A., Z. Xu, A. Rhoades, M. Dettinger, J. Mount, A.D. Jones, P. Vahmani (2018), California's Drought of the Future: A Prospective Look at the 2012-2017 Drought, Abstract A31D-04 presented at the 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec.

Rhoades, A., A.D. Jones, T. O'Brien, P. Ullrich, C. Zarzycki, (2018), Influences of Pacific Ocean domain extent on the western US hydroclimatology in variable-resolution CESM, Abstract A23N-3111 presented at the 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec.

Jagannathan, K., A.D. Jones, A. Kerr (2017), Decision-relevant evaluation of climate models: A case study of chill hours in California, Abstract PA43B-0324 poster presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.

Calvin, K. et al. (2017), Variance decomposition shows the importance of human-climate feedbacks in the Earth system, Abstract GC23F-04 presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.

- Vahmani, P and A.D. Jones (2017) Water conservation benefits of urban heat mitigation: can cooling strategies reduce water consumption in California?, Abstract GC12C-02 presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- Thornton, P.E. et al. (2017), Biospheric feedback effects in a synchronously coupled model of human and Earth systems, Abstract B53J-06 presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- Xu, Y, A.D. Jones, A. Rhoades (2017), Tracing the source of numerical climate model uncertainties in precipitation simulations using a feature-oriented statistical model, Abstract A41H-2386 poster presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- Vahmani, P., A.D. Jones (2016), Interactions between Cool Roofs and Urban Irrigation: Do Cooling Strategies Reduce Water Consumption in the San Francisco Bay Area? Abstract B43I-04 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
- Mayer, A., Z. Hausfather, A.D. Jones, W. Silver (2016), The potential of land management to decrease global warming from climate change, Abstract GC24B-05 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
- Lawrence, D., G. Hurtt, A. Arneeth, V. Brovkin, K. Calvin, A. D. Jones, et al. (2016), The Land Use Model Intercomparison Project (LUMIP) Contribution to CMIP6: Rationale and Experimental Design, Abstract GC24B-01 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
- Jagannathan, K., A.D. Jones, T. Pathak, A. Kerr, D. Doll (2016), Farmers' climate information needs for long-term adaptive decisions: A case study of almonds in CA, Abstract GC11C-1154 poster presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
- Bond-Lamberty, B., A.D. Jones, X. Shi, K. Calvin (2016), Quantifying the importance of model-to-model variability in integrated assessments of 21st century climate, Abstract GC31F-1166 poster presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
- Calvin, K., B. Bond-Lamberty, A.D. Jones, X. Shi (2016), Carbon-climate-human interactions in an integrated human-Earth system model, Abstract GC31B-1123 poster presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
- Jones, A. D. (2016), Incorporating stakeholder needs into regional climate model evaluation and improvement, presented at the Regional and Global Climate Modeling Program Principal Investigator Meeting, Rockville, MD, 29 Nov-1 Dec.
- Jones, A.D., K. Calvin, B. Bond-Lamberty, X. Shi, A. DiVittorio, W. Collins, P. Thornton, G. Hurtt (2016), Global Scale Feedbacks Between Climate and Land-Use in an Integrated Earth System Model, presented at the Conference on Complex Systems, Amsterdam, NE, 19-22 Sep.



- Jones, A. D., H. McJeon, W. Shi, M. Muratori (2015), Feasibility and Costs of Natural Gas as a Bridge Fuel to Deep Decarbonization in the United States, Abstract GC33A-1271, poster presented at 2015 Fall Meeting, AGU, San Francisco, 14-18, Dec.
- Jones, A.D., K. Calvin, J.F. Lamarque (2015), Impact Relevance and Usability of High Resolution Climate Modeling and Datasets, presented at the Aspen Global Change Institute, 2-7 Aug.
- Di Vittorio, A.V., L.P. Chini, B. Bond-Lamberty, J. Mao, X. Shi, J. Truesdale, A. Craig, K. Calvin, A. Jones, W.D. Collins, J. Edmonds, G.C. Hurtt, P. Thornton, A. Thomson (2014), From Land Use to Land Cover: Restoring the Afforestation Signal in a Coupled Integrated Assessment - Earth System Model and the Implications for CMIP5 RCP Simulations, Abstract GC41F-0660, poster presented at 2014 Fall Meeting, AGU, San Francisco, CA, 15-19 Dec.
- Jones, A. D., K. V. Calvin, W. D. Collins, and J. A. Edmonds (2014), Regionally Differentiated Scenarios of Future Albedo Forcing from Anthropogenic Land Cover Change, Abstract GC13J-0826, poster presented at 2014 Fall Meeting, AGU, San Francisco, CA, 15-19 Dec.
- Jones, A. D, K. V. Calvin, W. D. Collins, and J. A. Edmonds (2014), Accounting for radiative forcing from albedo change in future land-use scenarios, presented at the 7<sup>th</sup> Annual Meeting of the Integrated Assessment Modeling Consortium, University of Maryland, College Park, MD, 17-19 Nov.
- Calvin, K. V., A. D. Jones, J. Edmonds, W. D. Collins (2014), Including albedo effects in IAM scenarios, presented at DOE principle investigator meeting, Potomac, MD, 14 May.
- Jones, A. D., W. D. Collins, M. S. Torn (2013) Pattern scaling of land-use climate response relationships, Abstract GC42A-07 presented at 2013 Fall Meeting, AGU, San Francisco, CA, 12 Dec.
- Di Vittorio, A.V., B. Bond-Lamberty, L.P. Chini, J. Mao, X. Shi, J. Truesdale, A. Craig, K. Calvin, A. Jones, W.D. Collins, J. Edmonds, G.C. Hurtt, P. Thornton, A. Thomson, From land use to land cover: Restoring the afforestation signal from GCAM to CESM and the implications for CMIP5 RCP simulations, Joint CESM Land Model and Societal Dimensions Working Group Meeting, February 2014.
- Di Vittorio, A.V., B. Bond-Lamberty, K. Calvin, L.P. Chini, W.D. Collins, A. Craig, J. Edmonds, G.C. Hurtt, A. Jones, J. Mao, P. Patel, X. Shi, A. Thomson, P. Thornton, J. Truesdale, Y. Zhou, Coupling the land use decisions and carbon cycles of earth system and integrated assessment models, DOE CESD Climate PI Science Team Meeting, Potomac, MD, May 2013.
- Jones, A. D., and W. D. Collins (2013), Anthropogenic climate feedbacks via changes in crop productivity, poster presented at the Agricultural Model Intercomparison and Improvement Project 4<sup>th</sup> Annual Global Workshop, Columbia University, New York, NY, 28-30 Oct.

- Jones, A. D., K. V. Calvin, W. D. Collins, and J. A. Edmonds (2013), Integrating albedo into integrated assessment, presented at the Global Technology Strategy Program annual meeting, JGCRI, College Park, MD, 1-3 Oct.
- Jones, A. D. (2013), Regional crop yield distributions to inform land-use change modeling, poster presented at the Community Earth System Model Annual Workshop, NCAR, Breckenridge, CO, 17-20 Jun.
- Jones, A. D., and W. D. Collins (2013), Anthropogenic climate feedbacks via changes in crop productivity, poster presented at Climate Smart Agriculture: Global Science Conference, UC Davis, Davis, CA, 20-22 Mar.
- Jones, A. D., K. V. Calvin, W. D. Collins, and J. A. Edmonds (2013), Toward a more consistent treatment of land-use change within climate assessment, presented at the Community Earth System Model Joint Societal Dimensions and Land Model Working Group Meeting, NCAR, Boulder, CO, 19-22 Feb.
- Jones, A. D., W. D. Collins, M. S. Torn, and K. V. Calvin (2012), Climate implications of including albedo effects in terrestrial carbon policy, Abstract GC11B-0982 poster presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.
- Collins, W. D., J. A. Edmonds, P. E. Thornton, A. Craig, G. C. Hurtt, A. C. Janetos, A. D. Jones, C. D. Koven, W. J. Riley, and J. Truesdale (2012), Prospects for projecting the impact of Earth system processes on integrated assessment, Abstract A54A-08 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.
- Jones, A. D., and A. M. Thomson (2012), Exploring human-climate interactions with the integrated Earth System Model, presented at the Community Earth System Model Annual Workshop, NCAR, Breckenridge, CO, 18-21 Jun.
- Jones, A. D. (2012), Land-use change is a critical influence on the climate effects of climate policies, delivered in fulfillment of PhD requirements for the Energy and Resources Group Colloquium, UC Berkeley, Berkeley, CA, 11 Apr.
- Jones, A. D., K. V. Calvin, A. C. Janetos, W. D. Collins, J. A. Edmonds, P. E. Thornton, L. P. Chini, A. M. Thomson, M. S. Torn, J. Mao, and X Shi (2012), Greenhouse gas policies influence climate via direct effects of land-use change, presented at Community Earth System Model Joint Land Model and Societal Dimensions Working Group Meeting, NCAR, Boulder, CO, 27 Feb-2 Mar.
- Jones, A. D., L. P. Chini, W. D. Collins, A. C. Janetos, J. Mao, X. Shi, A. M. Thomson, and M. S. Torn (2011), Regional-scale forcing and feedbacks from global-scale land use change, Abstract GC22C-06 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- Smith, L. J., M. S. Torn, and A. D. Jones (2011), Ecological limits to terrestrial carbon dioxide removal strategies, Abstract GC51G-1115 poster presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- Jones, A. D., M. S. Torn, W. D. Collins, J. A. Edmonds, G. C. Hurtt, A. C. Janetos, J. Mao, L. P. Chini, A. M. Thomson, and P. E. Thornton (2011), Direct climate effects of

managing terrestrial carbon, presented at Community Earth System Model Annual Workshop, NCAR, Breckenridge, CO, 20-23 Jun.

Torn, M. S., L. J. Smith, and A. D. Jones (2011), Terrestrial carbon dioxide removal: ecological limits and impacts, presented at Modeling and Policy of CO<sub>2</sub> Removal from the Atmosphere, International Center for Climate Governance, Venice, Italy, 30-31 May.

Jones, A. D., M. S. Torn, S. Levis, and W. D. Collins (2011), Biogeophysical effects of biofuel cultivation, presented at the Annual Community Earth System Model Land Model Working Group Meeting, NCAR, Boulder, CO, 15-17 Mar.

Jones, A. D., M. S. Torn, W. D. Collins, and W. J. Riley (2011), Characterizing the climate effects of biofuel cultivation, presented at the 23<sup>rd</sup> Conference on Climate Variability and Change, AMS, Seattle, WA, 22-27 Jan.

Jones, A. D., M. S. Torn, W. J. Riley, and W. D. Collins (2010), Factors influencing biofuel crops' effect on climate, Abstract B22D-07 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.

Jones, A. D., M. S. Torn, W. J. Riley, and W. D. Collins (2010), Characterizing the climate effects of biofuel cultivation, presented at the Community Climate System Model Annual Workshop, NCAR, Breckenridge, CO, 28 Jun-1 Jul.

Jones, A. D., R. J. Plevin, M. O'Hare, M. S. Torn, and D. M. Kammen (2008), Approaches to modeling greenhouse gas releases from biofuels-induced land use change, presented at Society for Environmental Toxicology and Chemistry, 29th Annual Meeting, SETAC, Tampa, FL, 16-20 Nov.

Jones, A. D., A. E. Farrell, R. J. Plevin, and M. O'Hare (2008), Market mediated land use consequences of crop-based biofuels, presented at the 30<sup>th</sup> Symposium on Biotechnology for Fuels and Chemicals, SIM, New Orleans, LA, 4-7 May.

Jones, A. D., R. J. Plevin, M. O'Hare, and A. E. Farrell (2008), Market mediated land use consequences of crop-based biofuels, poster presented at the Conference on the Ecological Dimensions of Biofuels, ESA, Washington DC, 10 Mar.

- Synergistic Activities**
- Member of the Independent Advisory Committee on Applied Climate Assessment that is developing recommendations to increase the usability of the National Climate Assessment for climate adaptation practitioners, April 2018 to present.
  - Lead Author for California's 4<sup>th</sup> Climate Assessment, San Francisco Bay Area Regional Chapter.
  - Member of the California Public Utility Commission working group on Data, Sources, Models, and Tools in support of rulemaking R-18-04-019 to provide guidance to utilities on how to incorporate climate adaptation into their planning and operations, Nov 2018 to present.
  - Technical Advisory Group member for state of CA report "Planning and Investing for a Resilient California: A Guidebook for State Agencies," Prepared by the Governor's Office of Planning and Research direction of Executive Order B-30-15.

Session chair for session PA52B, Science to Action: Accelerating Innovation of Applied Climate Science for Risk Reduction and Resilience—A New Role for the Sustained National Climate Assessment, AGU Fall Meeting, 10-14 Dec, 2018.

Co-chair for Aspen Global Change Institute workshop on “Impact Relevance and Usability of High Resolution Climate Modeling and Datasets” designed to bridge the Earth system modeling (ESM) and impacts, adaptation, and vulnerability (IAV) research communities to improve the usability of high-resolution climate data products, 3-7 Aug, 2015.

Scientific Steering Committee Member for Land-Use Model Intercomparison Project (LUMIP) since 2014.

Hydroclimate theme lead for the lab-wide Water-Energy Resiliency Initiative at Lawrence Berkeley National Lab since 2015.

Scientific lead for the Resilient Systems Grand Challenge component of the Earth and Environmental Sciences Area Strategic Plan, Lawrence Berkeley National Lab, since 2016.

Co-convenor for American Geophysical Union Fall Meeting session GC23I: Assessing Impacts of Land Use and Land Cover Change in a Changing Climate using Modeling and Measurements, Dec 2016.

Co-convenor for American Geophysical Union Fall Meeting session GC22F, on The Effects of Anthropogenic Land-Use and Land-Cover Change on Local to Global Climate: Forcings and Feedbacks from the Past to the Future, Dec 2014.

### **Science-Art Engagements**

Scientific Advisor for *These Lines are Living*, a dance theatre work on the changing nature of shorelines, in production 2019-2020.

Invited presenter for *The Big Reveal*, a convening that weaves physicality with original songs and interactive learning sessions, presented by Fog Beast at the Asian Art Museum, San Francisco, 20-21 July, 2019.

Convenor and facilitator of a day-long workshop on re-imagining Buckminster Fuller’s World Game, hosted by Headlands Center for the Arts and World Link, 24 Aug 2019.

Convenor and facilitator of two thematic residencies on climate change, equity, and artistic practice at Headlands Center for the Arts, 1-5 Sep 2016 and 6-9 Sep 2018.

Scientific advisor for *Change*, a dance-theatre project exploring the personal, scientific, and psychological dimensions of climate change, presented by Shawl-Anderson Dance Center, Nov 2015.

Scientific advisor for *The Climate Music Project*, a project that combines climate science with the emotional power of music, performances ongoing.

### **Specialized Trainings**

Selected participant in American Meteorological Society and American Geophysical Union Summer Policy Colloquium, Washington, DC, 1-10 Jun, 2014.

Selected participant in NSF-sponsored Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS VIII), Colorado Springs, CO, 12-20 Oct, 2013.

Selected participant in workshop on Modeling Climate Change Impacts on Water and Crops at Different Scales, offered by: Euro-Mediterranean Center on Climate Change, Alghero, Italy, 6-10 Nov, 2012.

Selected participant in Summer Course in Flux Observation and Modeling, offered by: David Moore and Russell Monson, University of Colorado Mountain Research Station, Nederland, CO, 18-29 Jul, 2011.

Selected participant in Global Sustainability Summer School, offered by: Santa Fe Institute (SFI), Santa Fe, NM, 12-25 July, 2009.

Selected participant in the Global Change and Tropical Ecosystems Workshop 22 April-14 May, 2009. Offered by: NSF Pan- American Advanced Studies Institute, Organization for Tropical Studies, Costa Rica.

**Service as  
Expert  
Reviewer**

IPCC Special report on 1.5 degrees  
IPCC AR5 Working Group II Report  
DOE Office of Science  
Nature Geoscience  
Nature Climate Change  
Nature Communications  
Journal of Climate  
Geophysical Research Letters  
Geoscientific Model Development  
Journal of Geophysical Research – Atmospheres  
Bulletin of the American Meteorological Society

**Teaching  
Experience**

University Guest Lectures on  
Climate Change, UC Berkeley, Aug 2017  
Linear Algebra, UC Berkeley Sep 2011  
Environmental Aspects of Biofuels, UC Berkeley, Oct 2010  
Environmental Aspects of Biofuels, UC Berkeley, Mar 2008

General Audience Guest Lectures on Climate Change for  
Tamalpais High School, March 2017  
Dominican University, Sep 2015  
Windsor High School, Aug 2015

Graduate Student Instructor for ER102/202, “Quantitative Aspects of Global Environmental Problems,” Instructor: John Harte, Spring 2008, UC Berkeley.

Graduate Student Instructor for GSPP 290, “Advanced Quantitative Methods,” Instructor: Michael O’Hare, Fall 2008, UC Berkeley.

Math Tutor for college-level calculus, statistics, and linear algebra, 1998-2004, Washington University in St. Louis.

**Graduate and Postdoctoral Advisees** S. Elmallah (UC Berkeley), Z. Hausfather (UC Berkeley), K. Jagannathan (UC Berkeley), D. Konadu (U. Cambridge), Z. Mourao (U. Cambridge), A. Mayer (UC Berkeley), Alan Rhoades (LBNL), Julia Szinai (UC Berkeley), P. Vahmani (LBNL)

**Professional Affiliations** American Geophysical Union  
American Physical Society  
Complex Systems Society  
Community Earth System Model – Land Model Working Group  
Community Earth System Model – Societal Dimensions Working Group