

Vicken Hillis
Curriculum vitae

Environmental Science and Policy
University of California, Davis
One Shields Avenue
Davis, CA 95616

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EDUCATION

- 2013 Ph.D. in Ecology
Area of Emphasis: Environmental Policy and Human Ecology
University of California, Davis
- 2006 M.S. in International Agricultural Development
University of California, Davis
- 1997 B.A. in Economics
Georgetown University

APPOINTMENTS

- Fall 2015 Visiting Scholar
Center for Institutions, Behavior, and Environment
School of Sustainability
Arizona State University
- 2013-present Postdoctoral Scholar
Center for Environmental Policy and Behavior
Department of Environmental Science and Policy
University of California, Davis

PUBLICATIONS

Refereed Journal Articles

- 2015 **Hillis, V.** and M. Lubell. Breeding cooperation: cultural evolution in an intergenerational public goods experiment. *Ecology and Society*. 20(2):8.
- 2015 Richerson, P. J., R. Baldini, A. Bell, K. Demps, K. Frost, **V. Hillis**, S. Mathew, E. Newton, N. Narr, L. Newson, C. Ross, P. Smaldino, T. Waring, and M. Zefferman. Cultural group selection plays an essential role in explaining human cooperation: A sketch of the evidence. *Behavioral and Brain Sciences*. (2015):1-71.

- 2015 Hoffman, M., M. Lubell, and **V. Hillis**. Network-smart extension could catalyze social learning. *California Agriculture*. 69(2):113-122.
- 2014 Hoffman, M., M. Lubell, and **V. Hillis**. Linking knowledge and action through mental models of sustainable agriculture. *PNAS*. 111(36):13016-13021.
- 2011 Lubell, M., **V. Hillis**, and M. Hoffman. Innovation, cooperation and the perceived benefits and costs of sustainable agricultural practices. *Ecology and Society* 16(4):23.

Manuscripts Submitted and in Preparation

Hillis, V., M. Lubell, J. Kaplan, D. Doll, K. Baumgartner. The under-adoption of preventative trunk disease-management practices in California vineyards. Under review.

Hillis, V., M. Hoffman, and M. Lubell. Collaborative governance catalyzes the adoption of sustainable practices in California viticulture. Under review.

Smaldino, P., M. Janssen, **V. Hillis**, and J. Bednar. Adoption as a social marker: The diffusion of products in a multigroup environment. Under review.

Hillis, V., M. Lubell, and M. Hoffman. The perceived effectiveness of sustainability partnerships in California viticulture. In preparation for submission to *Sustainability Science* in early 2016.

Malone, S. L., M. G. Tulbure, A. J. Perez-Luque, T. J. Assal, L. L. Bremer, D. P. Drucker, **V. Hillis**, P. C. Selmants, S. Varela. Drought vulnerability across California ecosystems: evaluating spatio-temporal shifts in carbon ecosystem dynamics. In preparation for submission to *Environmental Research Letters*.

* manuscripts available upon request for all those submitted and in preparation

Other Selected Publications

- 2013 Richerson, P. J., and **V. Hillis**. "The cultural evolution of cooperation." In *Encyclopedia of Philosophy and the Social Sciences*, ed. B. Kaldis. SAGE Publications.
- 2011 **Hillis, V.**, M. Lubell, and M. Hoffman. Practice adoption and management goals of Lodi winegrape growers. Research Brief, Center for Environmental Policy and Behavior, University of California, Davis.
- 2011 **Hillis, V.**, M. Lubell, and M. Hoffman. Winegrower perceptions of sustainability programs in Lodi, California. Research Brief, Center for Environmental Policy and Behavior, University of California, Davis.
- 2011 Hoffman, M., M. Lubell, and **V. Hillis**. Defining sustainable agriculture from the practitioner perspective. *Practical Winery and Vineyard*.

- 2010 **Hillis, V.**, M. Hoffman, and M. Lubell. Effectiveness of sustainability programs in California viticulture. Research Brief, Center for Environmental Policy and Behavior, University of California, Davis.
- 2009 Lubell, M., B. Beheim, **V. Hillis**, and S. Handy. Achieving sustainability in California's Central Valley. Institute of Transportation Studies, University of California, Davis, Report No. UCD-ITS-RR-09-06.

GRANTS, FELLOWSHIPS AND AWARDS

Accepted

- 2015 National Socio-Environmental Synthesis Center (SESYNC) – Social Science Immersion Fellow (\$2000 honorarium)
- 2012 USDA-NIFA Specialty Crops Research Initiative Grant (\$387,099). “New detection, research, and extension tools for managing wood-canker diseases of fruit and nut crops” (2012-2014;2014-2017). PI – Kendra Baumgartner. Key Personnel – Vicken Hillis*
- *Note: Although postdoctoral scholars are not eligible to be co-PI, I was a co-author on the original grant application.
- 2011 Jastro Shields Graduate Research Scholarship, University of California, Davis, (\$1500).
- 2007 Graduate Group of Ecology Block Grant, University of California, Davis.

Under review

Russell Sage Foundation Behavioral Economics Small Grant (\$7,258). “Corruption and American Distrust of Centralized Authority”. Co-PI.

INVITED TALKS

- 2015 Social learning and cooperation in a multilevel public goods game. Social Dilemmas Conference at Brown University. Providence, RI. May 15-16.

CONFERENCE ACTIVITY/PARTICIPATION

Panels Organized

- 2015 Cultural Evolution and the Commons: Empirical Applications of a Multi-Level Evolutionary Framework. 15th Biennial Global Conference of the International Association for the Study of the Commons. Edmonton, CA. May 25-29.

Oral Presentations

- 2015 Social learning and the diffusion of crop disease prevention strategies; an agent-based model. CCS'15. Conference on Complex Systems. Tempe, AZ. Sep. 28-Oct. 2.
- 2015 A cultural evolutionary model of crop disease prevention in a networked social-agroecological system. 15th Biennial Global Conference of the International Association for the Study of the Commons. Edmonton, CA. May 25-29.
- 2014 A cultural multilevel selection approach to sustainability in California viticulture. 20th International Conference of the Society for Human Ecology. Bar Harbor, ME. October 22-25.
- 2014 Breeding cooperation: Cultural evolution in an intergenerational public goods experiment. Workshop on the Ostrom Workshop – WOW5. Bloomington, IL. June 18-21.

Poster Presentations

- 2014 Social network structure and sustainable practice adoption in California winegrapes. Sunbelt: Annual Meeting of the International Network for Social Network Analysis. Tampa, FL. February 18-23.
- 2013 Winegrape growers who share more information farm more sustainably. Polnet: Sixth Annual Meeting of the Political Networks Section of the American Political Science Association. Bloomington, IL. June 26-29.

TEACHING EXPERIENCE

Instructor

Principles of Human Ecology: Ecology, Nature, and Society, UC Davis (Fall 2010)

Teaching Assistant

Urban and Regional Planning, UC Davis (Spring 2010)

Public Land Management, UC Davis (Winter 2009, 2010)

Theories of the Policy Process, UC Davis (Spring 2009)

Human Evolutionary Biology, UC Davis (Fall 2008)

War and Terrorism, UC Davis (Spring 2007)

Plants and People, UC Davis (Winter 2007)

Ethics and Professionalism of Biotechnology and Genomics, UC Davis (Fall 2006)

Social Psychology, UC Davis (Spring 2006)

Introduction to Sociology, UC Davis (Winter 2006)

Contemporary American Families, UC Davis (Fall 2005)

PROFESSIONAL MEMBERSHIPS/AFFILIATIONS

Society for Human Ecology

International Network for Social Network Analysis

International Association for the Study of the Commons

LANGUAGES

Armenian (Oral: native speaker)

Italian (Oral, Written: proficient)

Arabic (Oral, Written: basic)

Spanish (Oral, Written: basic)

OTHER SKILLS

Statistics: Bayesian, GLMM, Information criteria, MCMC (R)

Agent-based modeling (R, Netlogo)