

## JEREMY VAN CLEVE

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### EDUCATION

Ph.D.	Stanford University Stanford, CA	Department of Biological Sciences Advisor: Professor Marcus W. Feldman	2009
B.A.	Oberlin College Oberlin, OH	Majors in Mathematics and Biology	2003

### PROFESSIONAL EXPERIENCE

University of Kentucky Lexington, KY	Assistant Professor of Biology	2015 –
National Evolutionary Synthesis Center Duke University   UNC   NC State Durham, NC	NESCent Postdoctoral Fellow	2013–2014
Santa Fe Institute Santa Fe, NM	SFI Omidyar Fellow	2009–2012
University of Colorado at Boulder Boulder, CO	Professional Research Assistant	2003–2004

### PUBLICATIONS (\* = CO-FIRST AUTHOR)

VAN CLEVE, J. & Weissman, D. B. (2015) Measuring ruggedness in fitness landscapes. *Proceedings of the National Academy of Sciences of the United States of America*, **112**, 7345–7346. (doi:10.1073/pnas.1507916112)

VAN CLEVE, J. (2015) Social evolution and genetic interactions in the short and long term. *Theoretical Population Biology*, **103**, 2–26. (doi:10.1016/j.tpb.2015.05.002)

Servedio, M. R., Brandvain, Y., Dhole, S., Fitzpatrick, C. L., Goldberg, E. E., Stern, C. A., VAN CLEVE, J. & Yeh, D. J. (2014) Not just a theory—the utility of mathematical models in evolutionary biology. *PLoS Biology*, **12**, e1002017. (doi:10.1371/journal.pbio.1002017)

VAN CLEVE, J. & Akçay, E. (2014) Pathways to social evolution: Reciprocity, relatedness, and synergy. *Evolution*, **68**, 2245–2258. (doi:10.1111/evo.12438)

VAN CLEVE, J. & Lehmann, L. (2013) Stochastic stability and the evolution of coordination in spatially structured populations. *Theoretical Population Biology*, **89**, 75–87. (doi:10.1016/j.tpb.2013.08.006)

Akçay, E. & VAN CLEVE, J.\* (2012) Behavioral responses in structured populations pave the way to group opti-

mality. *American Naturalist*, **179**, 257–269. (doi:10.1086/663691)

Brandvain, Y., VAN CLEVE, J.\*, Úbeda, F. & Wilkins, J. F. (2011) Demography, kinship, and the evolving theory of genomic imprinting. *Trends in Genetics*, **27**, 251–257. (doi:10.1016/j.tig.2011.04.005)

Lieberman, U., VAN CLEVE, J. & Feldman, M. W. (2011) On the evolution of mutation in changing environments: recombination and phenotypic switching. *Genetics*, **187**, 837–851. (doi:10.1534/genetics.110.123620)

VAN CLEVE, J., Feldman, M. W. & Lehmann, L. (2010) How demography, life history, and kinship shape the evolution of genomic imprinting. *American Naturalist*, **176**, 440–55. (doi:10.1086/656277)

Akçay, E., VAN CLEVE, J.\*, Feldman, M. W. & Roughgarden, J. (2009) A theory for the evolution of other-regard integrating proximate and ultimate perspectives. *Proceedings of the National Academy of Sciences of the United States of America*, **106**, 19 061–19 066. (doi:10.1073/pnas.0904357106)

Salathé, M., VAN CLEVE, J. & Feldman, M. W. (2009) Evolution of stochastic switching rates in asymmetric fitness landscapes. *Genetics*, **182**, 1159–64. (doi:10.1534/genetics.109.103333)

VAN CLEVE, J. & Feldman, M. W. (2008) Stable long-period cycling and complex dynamics in a single-locus fertility model with genomic imprinting. *Journal of Mathematical Biology*, **57**, 243–264. (doi:10.1007/s00285-008-0156-4)

VAN CLEVE, J. & Feldman, M. W. (2007) Sex-specific viability, sex linkage and dominance in genomic imprinting. *Genetics*, **176**, 1101–1118. (doi:10.1534/genetics.107.071555)

Guralnick, R. & VAN CLEVE, J. (2005) Strengths and weaknesses of museum and national survey data sets for predicting regional species richness: comparative and combined approaches. *Diversity and Distributions*, **11**, 349–359. (doi:10.1111/j.1366-9516.2005.00164.x)

## PREPRINTS

Hoke, K. L., Barron, A. B., Hauber, M. E., Kopp, M. & VAN CLEVE, J. Sensitive periods and the ontogenetic shape of behavioral plasticity. *Submitted to The American Naturalist*

Akçay, E., Linksvayer, T. A. & VAN CLEVE, J. Bridging social evolution theory and emerging empirical approaches to social behavior. *In press at Current Opinion in Behavioral Sciences*

VAN CLEVE, J. Cooperation, conformity, and the coevolutionary problem of trait associations. *In revision at Journal of Theoretical Biology*

Andris, C., Adler, L., Atwater, C., VAN CLEVE, J. & O'Dwyer, J. Measuring mentorships as bridging social capital. *In revision at Urban Affairs*

Akçay, E. & VAN CLEVE, J. There is no fitness but fitness and lineage is its bearer. *In review at Philosophical Transactions of the Royal Society B*

## GRANTS

**2015** PI. National Academy of Sciences and Keck Foundation – Futures Initiative. \$50,000  
“Social evolutionary systems biology: Studying collective behavior by integrating social evolution theory with sociogenomics”

**2015** co-PI. National Academy of Sciences and Keck Foundation – Futures Initiative. \$25,000

“Origin of multicellular development via the capture of a stochastic process”

**2013** Co-PI. Frost Foundation. \$20,000

“Quantifying the Impact of Mentorships on Human and Social Capital in Santa Fe New Mexico”

## AWARDS AND HONORS

**2014** Institute for Genomic Biology (UIUC), Carl Woese Fellowship (declined)

**2010** Samuel Karlin Prize in Mathematical Biology (Stanford University)

**2009** National Institutes of Health Postdoctoral Fellowship (declined)

**2008** National Institutes of Health NLM Training Grant Appointment

**2007** Stanford University Centennial Teaching Award

**2006** Stanford University Department of Biological Sciences Excellence in Teaching Award

**2004** Anne T. and Robert M. Bass Stanford University Graduate Fellowship

**2002** Elected Phi Beta Kappa

**2001** Barry M. Goldwater Scholarship

## INVITED TALKS

University of Pennsylvania, Department of Biology, April 2014.

North Carolina State University, Biomathematics Graduate Program, April 2014

Florida State University, Department of Biology. January 2014.

University of California, San Diego, Section of Ecology, Behavior and Evolution. January 2014.

University of Kentucky, Department of Biology. December 2013.

Harvey Mudd College, Department of Biology. December 2012.

University of Lausanne, Switzerland, Department of Ecology and Evolution. May 2012.

Center for Nonlinear Studies, Los Alamos National Laboratory. April 2012.

University of Colorado, Boulder, Department of Ecology and Evolutionary Biology. January 2012.

University of New Mexico, Computer Science Department. November 2010.

National Institute for Mathematical Biology and Synthesis, Knoxville, TN. March 2010.

## CONFERENCES

National Academies Keck Futures Initiative, “Collective Behavior”, Irvine, CA. November 2014.

Evolution Conference, Raleigh, North Carolina. Concurrent session talk. June 2014.

Toulouse Economics & Biology Workshop, Institute for Advanced Study in Toulouse, France. Poster. May 2014.

American Society of Naturalists, Asilomar, CA. Concurrent session talk. January 2014.

Evolution Conference, Snowbird, Utah. Concurrent session talk. June 2013.

Evolution Conference, Ottawa, Canada. Concurrent session talk. July 2012.

Animal Behavior Society and Human Behavioral and Evolution Society Meetings, Albuquerque, NM.  
Concurrent session talk. June 2012.

Ecological Society of America Meeting, Austin, TX. Concurrent session talk. August 2011.

Evolution Conference, Portland, OR. Concurrent session talk. June 2010

Evolution Conference, Minneapolis, MN. Concurrent session talk, June 2008.

EVO-WIBO Conference, Port Townsend, WA. Session talk. April 2008.

Evolution Conference, Christchurch, New Zealand. Concurrent session talk. June 2007.

## TEACHING EXPERIENCE

University of Kentucky

- Fall 2015. BIO 770 Graduate Seminar: “Dr. Pangloss reborn? Natural selection in evolution”

NESCent

- Lecturer: Santa Fe Institute Summer Complexity and Modeling Program, Groton School, MA (Summer 2013)
- Mentor: Chloe Atwater, Research Assistant, Santa Fe Institute (Summer–Fall 2013).

Santa Fe Institute

- Lecturer: Santa Fe Institute Complex Systems Summer School (2011–2012)
- Mentor: Austen Mack-Crane, Brown University, REU student (Summer 2012)
- Mentor: Brecia Young, Harvard University, REU student (Summer 2011)
- Mentor: Amalie McKee, Case Western Reserve University, REU student (Summer 2010)
- Mentor: The Masters Program (charter high school), Santa Fe, NM (2010–2012)

## ACADEMIC SERVICE

Member of the American Society of Naturalists and the Society for the Study of Evolution.

Reviewer: *Nature Communications*, *Proceedings of the National Academy of Sciences*, *Genetics*, *Theoretical Population Biology*, *Proceedings of the Royal Society B*, *Philosophical Transactions of the Royal Society B*, *The American Naturalist*, *Evolution*, *Evolutionary Biology*, *Biological Reviews*, *Behavioral Ecology*, *Heredity*, *PLoS Computational Biology*, *PLoS ONE*, *Journal of Theoretical Biology*, *Bulletin of Mathematical Biology*, *Journal of the Royal Society Interface*.

## MEDIA COVERAGE

*Albuquerque Journal* Health section article, June 13, 2011.