

JEREMY VAN CLEVE

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EDUCATION

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|-------|-------------------------------------|---|------|
| 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

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| 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/CORRESPONDING AUTHOR)

- Wilkins, J. F., Úbeda, F. & VAN CLEVE, J.* (2016) The landscape of imprinted genes in humans and mice: Conflict among alleles, genes, tissues, and kin. *BioEssays*. (doi:10.1002/bies.201500198)
- VAN CLEVE, J. (2016) Cooperation, conformity, and the coevolutionary problem of trait associations. *Journal of Theoretical Biology*, **396**, 13–24. (doi:10.1016/j.jtbi.2016.02.012)
- Akçay, E. & VAN CLEVE, J.* (2016) There is no fitness but fitness, and the lineage is its bearer. *Philosophical Transactions of the Royal Society B*, **371**, 20150085. (doi:10.1098/rstb.2015.0085)
- Akçay, E., Linksvayer, T. A. & VAN CLEVE, J. (2015) Bridging social evolution theory and emerging empirical approaches to social behavior. *Current Opinion in Behavioral Sciences*, **6**, 59–64. (doi:10.1016/j.cobeha.2015.09.002)
- 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 optimality. *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)
- LIBERMAN, 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**, 19061–19066. (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*
- Lehmann, L., Mullon, C., Akçay, E. & VAN CLEVE, J. Invasion fitness, inclusive fitness, and reproductive numbers in heterogeneous populations. *In revision at Evolution*
- Andris, C., Adler, L., Atwater, C., VAN CLEVE, J. & O'Dwyer, J. Measuring mentorships as bridging social capital. *Preprint*

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 Kentucky, Center for Ecology, Evolution and Behavior Annual Symposium (Keynote). May 2015.
- 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”
- Spring 2016. BIO 325 Ecology
- Mentor: Hugh Ronald, Paul Laurence Dunbar High School, Lexington, KY (2015–2016)

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

Associate Editor (2016–2019), Theoretical Population Biology.

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 Ecology*, *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*.

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

MEDIA COVERAGE

Albuquerque Journal Health section article, June 13, 2011.