

Lindsay V. Clark
Postdoctoral Research Associate
Energy Biosciences Institute
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Education:

PhD, Genetics September 2011
University of California, Davis

Bachelor of Arts June 2004
Dartmouth College, Hanover, NH
Major: Genetics, Cell, and Developmental Biology
Minor: Chemistry

Publications:

Lindsay V. Clark, Katherine J. Evans, and Marie Jasieniuk (2013) "Origins and distribution of invasive *Rubus fruticosus* L. agg. clones in the Western United States." **Biological Invasions** 15:1331-1342. [link](#)

Lindsay V. Clark and Marie Jasieniuk (2012) "Native and exotic *Rubus* hybridize to produce facultative apomictic offspring in the Western United States." **Heredity** 109:320-328. [link](#)

Lindsay V. Clark and Marie Jasieniuk (2011) "POLYSAT: an R package for polyploid microsatellite analysis." **Molecular Ecology Resources** 11: 562-566. [link](#)

Amanda Garriss, Lindsay Clark, Chris Owens, Steven McKay, James Luby, Kathy Mathiason, and Anne Fennell (2009) "Mapping of Photoperiod-Induced Growth Cessation in the Wild Grape *Vitis riparia* Michx." **Journal of the American Society for Horticultural Science** 134: 261-272. [link](#)

Software:

[polysat: tools for polyploid microsatellite analysis](#) May 2010

Research Experience:

Postdoctoral Research Associate August 2011-present

Erik Sacks, University of Illinois, Urbana-Champaign

Characterizing molecular genetic diversity and population structure in *Miscanthus*, using next-generation sequencing, SNP, and microsatellite markers, in order to develop plant breeding resources for the development of bioenergy crops. Quantifying phenotypic variation and mapping traits of interest. Managing hourly workers.

Graduate Student Researcher June 2007-July 2011

Marie Jasieniuk, UC Davis

Conducted molecular research on invasiveness in *Rubus*, including studies on hybridization, clonal diversity, reproductive strategy, and differential gene expression. Assisted with molecular marker studies of *Echinochloa*. Mentored an undergraduate August 2009-October 2010.

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Biological Science Laboratory Technician November 2004-July 2006

Amanda Garris, USDA-ARS-Plant Genetic Resources Unit, Geneva, NY

Cloned phytochrome genes from *Vitis* species. Performed genotyping and phenotyping experiments relating to day-length detection in grapevine. Organized and participated in journal club.

Undergraduate Honors Thesis

June 2002-June 2004

Thomas Jack, Dartmouth College, Hanover, NH

Performed research and wrote honors thesis on the characterization of a gene cluster in *Arabidopsis*. Regularly presented this research and outside papers at lab meetings.

Women in Science Project Intern

January-May 2001, January-March 2002

Roger Sloboda, Dartmouth College, Hanover, NH

Performed research on protein localization during mitosis, using Western blotting and immunofluorescence.

Laboratory Technician

June-August 2001

Thomas Foxall, University of New Hampshire

Developed a protocol for immunocytochemical staining hamster arteries for estrogen receptors. Prepared photographs for publication using Adobe Photoshop.

Posters and Presentations:

Presentations:

"Using molecular markers to investigate invasive *Rubus* and genetic diversity of *Miscanthus*".
Invited seminar speaker, Western Kentucky University Biology Department, September 7, 2012.

"Genetic diversity and population structure of *Miscanthus* in Japan" at the 3rd Pan American Congress on Plants and Bioenergy, Champaign, Illinois, June 17, 2012.

"Hybridization of native and invasive blackberries in California" at UC Davis Weed Day, July 17, 2008.

Annual research presentations at UC Davis Genetics Graduate Group student seminar series.

Posters:

"Genetic structure of *Miscanthus sinensis* from Asia and the United States" at Plant and Animal Genome XXI, January 12-16, 2013.

["Microsatellites distinguish sexual vs. apomictic reproduction in spontaneous *Rubus* hybrids"](#) at Plant and Animal Genome XIX, January 15-19, 2011.

["Hybridization between native and introduced *Rubus* in California and the Pacific Northwest"](#) at Plant and Animal Genome XVIII, January 9-13, 2010.

["Hybridization between invasive and native blackberries \(*Rubus*\) in California"](#) at California Invasive Plant Council Symposium, October 2-4, 2008.

Undergraduate Honors Thesis: Molecular and genetic characterization of the chromosome 4 REM gene cluster in *Arabidopsis thaliana*.

Undergraduate Posters: Presented *Arabidopsis* work at the Beckman Scholars Symposium in Irvine, CA. Presented protein localization work and *Arabidopsis* work at undergraduate symposiums at Dartmouth College.

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Graduate Honors and Awards:

UC Davis Department of Plant Sciences Graduate Research Assistantship	2007-2011
Jastro-Shields Research Award	2008-2009, 2009-2010, 2010-2011
UC Davis Department of Plant Sciences Graduate Student Travel Award	2009, 2010
California Weed Science Society Scholarship	2010

Graduate Coursework:

Genetic Analysis, Population and Quantitative Genetics, Molecular Biology, History of Genetics, Population Genetic Software, Genomics, Multivariate Systems and Modeling, Molecular Phylogenetic Analysis, Molecular Ecology, Plant Population Biology, Translating Research Beyond Academia, Landscape Genetics

Undergraduate Honors and Awards:

Summa Cum Laude (95th percentile GPA), Phi Beta Kappa, Sigma Xi, High Honors in Major, Beckman Scholar, Presidential Scholar, Women in Science Project Intern, Willard W. Eggleston Botany Prize, John Whiteley Band Spirit Award

Relevant Undergraduate Coursework:

Molecular Biology, Processes of Evolution, Molecular Genetics of Eukaryotes, Advanced Genetics, Biochemistry, Plant Physiology, Cell Biology, Statistics, Computer Science, Honors Research in Biology

Teaching Experience:

Associate Instructor, Plant Genetics and Biotechnology Laboratory June-July 2009
Department of Plant Sciences, UC Davis

Instructor of record for an intensive laboratory course. Edited laboratory manual and designed a new activity to introduce students to primary literature. Prepared and gave lectures, held office hours, and did all lab setup and clean up. Wrote quizzes and extra credit assignments, wrote and graded exams. Demonstrated techniques, assisted students, and answered questions during lab.

Guest Lecturer, Ecological Genetics February 2011
Ecology Graduate Group, UC Davis
“Polyploid data analysis, and how to gently transition from software user to software developer”
[Presentation PDF](#)

Teaching Assistant, Molecular Genetics Laboratory January-March 2010
Department of Molecular & Cellular Biology, UC Davis
Wrote answer keys and graded assignments and exams. Held review sessions. Answered student questions during lab. Assisted professor and staff with lab setup and clean up.

Teaching Assistant, Genes and Gene Expression Sept.-Dec. 2009, January-March 2011
Department of Molecular & Cellular Biology, UC Davis
Led three one-hour discussion sections per week as well as exam review sessions. Held office hours. Wrote exam questions and graded exams and quizzes.

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Teaching Assistant, Human Heredity

March-June 2007, March-June 2009

Department of Molecular & Cellular Biology, UC Davis

Wrote lesson plans and quizzes and led four one-hour discussion sessions every week. Held office hours and graded quizzes and extra credit assignments.

Teaching Assistant, Plant Genetics and Biotechnology Laboratory

February-March 2009

Department of Plant Sciences, UC Davis

Prepared reagents and equipment needed for course. Demonstrated and instructed students in molecular techniques.

Undergraduate Teaching Assistant, Molecular Biology

June-August 2003

Department of Biological Sciences, Dartmouth College, Hanover, NH

Instructed students in molecular techniques and protocols in a laboratory setting. Ensured that benches were clean, samples were collected, and equipment was shut off at the end of each lab.

Postdoctoral Service:

Reviewer for *Molecular Ecology Resources*

2012, 2013

Reviewer for *BioEnergy Research*

2012

Mentored McNair Scholar during Summer Research Institute

2013

Volunteer at Genome Day, Orpheum Children's Museum, Champaign, IL

November 2012

Video chat with Cub Scout troop to discuss being a scientist

May 2013

Graduate Service:

Organized Genetics student seminar

Winter 2008

Hosted prospective students

2007-2011

Hosted Genetics recruitment barbecue

2008-2010

Helped with Plant Science displays at Picnic Day

2007-2011

Graduate Student Association Representative

2008-2009

Genetics Graduate Group Education Policy Committee

2009-2010

Genetics Graduate Group Student Executive Committee

2007-2010

Helped with Genetics Graduate Group Colloquium

2010, 2011

Outreach presentation to Anna Kyle Elementary, Fairfield, CA

May 2010

Professional Development

"Entering Mentoring" workshop series, UC Davis College of Biological Sciences

Fall 2009

"Beyond the Basics" workshop series, UC Davis Teaching Resources Center

Spring 2009