

CURRICULUM VITAE

Laurie Sherie Stevison, PhD

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I. ACADEMIC APPOINTMENTS

2011–Present Postdoc Institute for Human Genetics, UCSF; Advisor: Jeff Wall

II. EDUCATION

2007–2011 Ph.D. Department of Biology, Duke University
Dissertation title: Causes and consequences of recombination rate variation in *Drosophila*; Advisor: Mohamed A. F. Noor

2005–2007 MA Department of Ecology and Evolutionary Biology, Rice University
Thesis title: Multilocus test for nuclear introgression between *Macaca mulatta* and *M. fascicularis*: Evidence for gene flow in macaques; Advisor: H. Michael Kohn

2001–2005 BS Biophysics, Centenary College of Louisiana
Departmental Honors: Biology and Biophysics

III. PUBLICATIONS

A. Publications (published/in press)

- Stevison L.S.** 2012. Male-mediated effects on female recombination rates. *Evolution*. 66(3): 905-910.
- Stevison L.S.**, K. Hoehn and M.A.F. Noor. 2011. Effects of inversions on within- and between-species recombination and divergence. *Genome Biology and Evolution*. 3: 830-841.
- Stevison L.S.** and M.A.F. Noor. 2010. Genetic and evolutionary correlates of fine-scale recombination rate variation in *Drosophila persimilis*. *Journal of Molecular Evolution*. 71(5): 332-345.
- Kulathinal R.J., **L.S. Stevison**, M.A.F. Noor. 2009. The genomics of speciation in *Drosophila*: Diversity, divergence, and introgression on a genome-wide scale. *PLoS Genetics*. 5(7): e1000550.
- Stevison, L.S.** and H.M. Kohn. 2009. Divergence population genetic analysis of hybridization between rhesus and cynomolgus macaques. *Molecular Ecology*. 18(11): 2457-2475.
- Stevison, L.S.** and H.M. Kohn. 2008. Inferring genetic background of cynomolgus macaques (*Macaca fascicularis*). *Journal of Medical Primatology*. 37(6): 311-317.
- Stevison L.S.**, B.A. Counterman, and M.A.F. Noor. 2004. Molecular evolution of X-linked accessory gland proteins in *Drosophila pseudoobscura*. *Journal of Heredity* 95(2): 114–118.

B. Publications (not peer-reviewed)

- Fitzpatrick, C.F., **L.S. Stevison** and M.A.F. Noor. 2009. Fine-scale crossover rate and interference along the XR-chromosome arm of *Drosophila pseudoobscura*. *Drosophila Information Service*, 92:27-29.
- Stevison, L.S.** and M.A.F. Noor. 2009. Recombination rates in *Drosophila*. In: *Encyclopedia of Life Sciences*, Chichester: John Wiley & Sons, Ltd.
- Stevison, L.S.** 2008. Hybridization and gene flow. *Nature Education* 1(1).
<http://www.nature.com/scitable/topicpage/Hybridization-and-Gene-Flow-34546>.
- Bourgeois G., **L.S. Stevison**, D. Ortiz-Barrientos, and M.A.F. Noor. 2005. Characterization of UDP-glycosyltransferase genes in *Drosophila pseudoobscura*. *Drosophila Information Service*, 88:12-15.

IV. GRANTS

- 2009 NSF Doctoral Dissertation Improvement Grant
- 2008 Duke Biology Department Grant-in-aid of Research
- 2007 Sigma Xi Grant-in-aid of Research
- 2006 Rice EEB Travel Grant, Rice University

V. FELLOWSHIPS AND AWARDS

- 2010 Dean's Award for Excellence in Mentoring, Duke University
- 2010 Katherine Goodman Stern Fellowship, Duke University
- 2009 Walter M. Fitch prize finalist, Society for Molecular Biology and Evolution Meeting
- 2009 SMBE Graduate Student Travel Award
- 2009 Evolution of Sex & Recombination Meeting Graduate Student Travel Award
- 2007 Summer Institute in Statistical Genetics Scholarship, University of Washington
- 2005 Bob E. & Lore Merten Watt Fellowship, Rice University
- 2005 Texas Rodeo and Livestock Fellowship
- 2005 Outstanding Biophysics Student of the Year, Centenary College
- 2005 Outstanding Contributions in Student Life, Centenary College
- 2005 Resident Assistant of the Year, Centenary College

VI. TEACHING/SUPERVISORY ACTIVITIES

A. Teaching Assistantships

- 2009 BIO25L: Principles of Biology (Spring), Duke University
- 2008 BIO118: Genetics and Molecular Biology (Fall), Duke University
- 2006 Bios 328: Evolution of Genes and Genomes (Spring), Rice University
- 2005 Bios 321: Animal Behavior (Fall), Rice University

B. Undergraduate Research Students Supervised

- Anne Boehling, 2009-2010, Undergraduate Research Assistant
- Jennifer Hilton, 2006-2007, Senior Honors Thesis Project

C. Guest Lectures

- 2012 Population Genetics and Molecular Evolution, February 7, 2012
- 2010 Evolutionary Genetics, January 19, 2010
- 2007 Evolution of Genes and Genomes, January 30 and February 1, 2007
- 2006 Evolution, September 20, 2006
- 2006 Evolution of Genes and Genomes, January 24 & 26, 2006
- 2005 Animal Behavior, October 4, 2005

VII. PROFESSIONAL SERVICE

A. Scientific journals reviewed for: Molecular Ecology, Genetica, Evolution, Journal of Heredity, Heredity, and Genome

B. Society Affiliations: Society for the Study of Evolution, Society for Molecular Biology and Evolution, Faculty of 1000 Associate Faculty Member

C. Undergraduate Mentoring Programs: Evolution Meeting 2008; SMBE Meeting 2010

VIII. PRESENTATIONS

A. Invited/Professional Seminars

- Effects of chromosomal inversions on recombination and interspecies gene exchange in *Drosophila*. Duke University. 5 April 2011.
- How chromosomal inversions contribute to genome-wide variation in gene flow. Louisiana State University. 21 January 2011.
- The causes and consequences of recombination rate variation in *Drosophila*. Boston University. 13 October 2010.
- Exploring the role of reduced recombination in maintaining species. UC San Francisco. San Francisco, CA. 16 Sept 2010.
- Exploring the role of reduced recombination in maintaining species. UC Davis. Davis, CA. 15 Sept 2010.

Breaking up is hard to do: How male *Drosophila* influence crossover rates in females. Duke University Behavioral, Population, and Community Ecology Seminar. 6 April 2010.

Genomic Analysis of recombination rate in *Drosophila persimilis*. Duke University Population Biology Seminar. 26 March 2009.

Multilocus test for gene flow between *Macaca mulatta* and *M. fascicularis*. Duke University Population Biology Seminar. 31 January 2008.

B. Panels

2010 Graduate School Board of Visitors Mentorship Panelist, Duke University

2010 Howard Hughes Summer Research Fellowship Program Career Panelist, Duke University

2010 Graduate and Professional Women's Network "If I knew then what I know now" Panelist, Duke University, Durham, NC

C. Meeting presentations (*poster)

*Genetic and evolutionary correlates of fine-scale recombination rate variation in *Drosophila persimilis*. **Laurie Stevison** and Mohamed Noor. SMBE Meeting. Lyon, France. 6 July 2010.

Male *Drosophila* influence crossover rate in females. **Laurie Stevison** and Mohamed Noor. Evolution Meeting. Portland, OR. 29 June 2010.

Reevaluating the evolutionary history of the *Drosophila pseudoobscura* species group using low coverage whole genome shotgun sequencing. **Laurie Stevison**, Rob Kulathinal and Mohamed Noor. SMBE Meeting (Walter M. Fitch Symposium). Iowa State University. 6 June 2009.

Genomic analysis of recombination rates within *Drosophila persimilis* and between *D. persimilis* and *D. pseudoobscura*. **Laurie Stevison** and Mohamed Noor. Evolution of Sex and Recombination: In theory and practice. Iowa State University. 1 June 2009.

*Are inversions absolute barriers? Testing for introgression within an inversion in *Drosophila pseudoobscura* and *D. persimilis*. **Laurie Stevison** and Mohamed Noor. Evolution Meeting. University of Minnesota. 24 June 2008.

*Divergence population genetics in macaques. **Laurie Stevison** and Michael H. Kohn. Evolution Meeting. SUNY Stony Brook. 26 June 2006.

*Population genetics of male accessory gland proteins in *Drosophila pseudoobscura*. **Laurie Stevison**, Brian Counterman, and Mohamed A.F. Noor. Southeastern Ecology and Evolution Conference (SEEC). Georgia Tech University. 6 March 2004.

IX. SKILLS

A. Programming language proficiency: Perl, Unix/Linux, R

B. Genetics software proficiency: IM/IMa, PHASE, LDhat, Samtools, PicardTools, BedTools, VcfTools

C. Other relevant software/scripting languages: LaserGene/SeqMan, JMP, HTML, Illustrator/Photoshop

X. WORKSHOPS AND SHORT COURSES ATTENDED

2011 Cold Spring Harbor Laboratories: Computational and Comparative Genomics

2010 NSF ADVANCE Workshop: Negotiating the Ideal Faculty Position, Rice University, Houston, TX

2008 Genomic Patterns and Processes of Introgression Working Group, NESCent, Durham, NC

2007 *Drosophila* Species Identification Workshop VII, Tucson, AZ

2007 Summer Institute in Statistical Genetics, University of Washington, Seattle, WA

XI. SERVICE AND OUTREACH ACTIVITIES

2009-2011 Girl Scout Co-leader, Troop 1662

2008-2009 Girl Scout Adult Volunteer, Troop 643

2007-2009 Women in Science Committee, Biology Department, Duke University

2007 First-Year Retreat Committee, Biology Dept, Duke University

2006-2007 Department Representative to Graduate Student Association, Rice University

2005-2007 Girl Scout Volunteer/Adventure Guide, Troop 17016