

CARRIE C. VEILLEUX – CURRICULUM VITAE

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AREAS OF SPECIALIZATION

Molecular and sensory ecology, primate evolution

PROFESSIONAL APPOINTMENTS

2015-present Postdoctoral Fellow, American Association of University Women
2015- present Lecturer, Anthropology, Texas State University
2012- present Postdoctoral Research Affiliate, Anthropology, University of Texas at Austin
2013-14 Postdoctoral Research Associate, Anthropology, Yale University
2013 Lecturer, Anthropology, Texas State University
2010 Associate Instructor, Anthropology, University of Texas at Austin
2007-11 Teaching Assistant, Anthropology, University of Texas at Austin

EDUCATION

Ph.D. Anthropology, University of Texas at Austin, May 2012.
Dissertation: *Effects of light environment on the evolution of primate visual systems*.
Advisor: E. Christopher Kirk

M.A. Anthropology, University of Texas at Austin, 2006.
Thesis: *Visual acuity in a cathemeral lemur (Eulemur macaco flavifrons): implications for strepsirrhine visual ecology*. Advisor: E. Christopher Kirk

B.A. Anthropology, Psychology minor, Barrett Honors College, Arizona State University, 2004.
Advisor: Leanne T. Nash

RESEARCH GRANTS

2009	\$13,441	Wenner-Gren Anthropological Foundation Dissertation Fieldwork Grant
2009	\$4,080	Leakey Foundation Dissertation Grant
2009	\$1,000	American Philosophical Society's Lewis and Clark Grant
2008	\$1,500	American Society of Mammalogists Grant-in-Aid of Research
2008-10	\$13,133	NSF Dissertation Improvement Grant (#0752692)
2007	\$1,000	Sigma Xi Grant-in-Aid of Research
2006	\$2,000	University of Texas Liberal Arts Graduate Research Fellowship

FELLOWSHIPS, HONORS, AWARDS

2015	\$30,000	Postdoctoral Fellowship, American Association of University Women
2012	\$200	Outstanding Student Presentation in Anthropological Genetics, American Association of Physical Anthropologists meeting

2012	\$500	Pollitzer Travel Award, American Assoc. Physical Anthropologists
2011	\$355	Professional Development Award, UT Austin Dept of Anthropology
2011	\$100	Honorable Mention for Student Prize, American Society of Primatologists
2010	\$46,000	Harrington Dissertation Fellowship, University of Texas at Austin
2010	\$200	Professional Development Award, UT Austin Dept of Anthropology
2010	\$50	Podium Prize, Texas Association of Biological Anthropologists meeting
2010	\$2000	Mitchell Award for Excellence in Graduate Research, UT Austin
2010	\$750	Earnest Albert Hooton Prize, Am Assoc Physical Anthropologists meeting
2009	\$190	Professional Development Award, UT Austin Dept of Anthropology
2008	\$200	Professional Development Award, UT Austin Dept of Anthropology
2008	--	Poster Prize, Texas Association of Biological Anthropologists meeting
2007	\$250	Professional Development Award, UT Austin Dept of Anthropology
2005-8	\$120,000	NSF Graduate Research Fellowship
2005-7	\$3,000	University of Texas David J. Bruton Fellowship
2004-5	\$15,000	University of Texas at Austin Pre-emptive Fellowship
2004	--	Department Award for Undergraduate Achievement in Anthropology, Arizona State University

PEER-REVIEWED PUBLICATIONS IN JOURNALS AND EDITED VOLUMES

Published/Accepted

1. **Veilleux CC.** *accepted.* Genetics of primate color vision. Invited entry for *International Encyclopedia of Primatology*.
2. **Veilleux CC, Kirk EC.** 2014. Visual acuity in mammals: effects of eye size and ecology. *Brain Behav Evol* 83: 43-53.
3. **Veilleux CC, Jacobs RL, Cummings ME, Louis EE, Bolnick DA.** 2014. Opsin genes and visual ecology in a nocturnal folivorous lemur. *Int J Primatol* 35: 88-107.
4. **Veilleux CC, Louis EE, Bolnick DA.** 2013. Nocturnal light environments influence color vision and signatures of selection on the *OPN1SW* opsin gene in nocturnal lemurs. *Mol Biol Evol* 30: 1420-1437.
5. **Veilleux CC, Cummings ME.** 2012. Nocturnal light environments and species ecology: implications for nocturnal color vision in forests. *J Exp Biol* 215: 4085-4096.
6. **Veilleux CC, Lewis RJ.** 2011. Effects of habitat light intensity on mammalian eye shape. *Anat Rec* 294: 905-914.
7. **Veilleux CC, Bolnick DA.** 2009. Opsin gene polymorphism predicts trichromacy in a cathemeral lemur. *Am J Primatol* 71: 86-90.
8. **Veilleux CC, Kirk EC.** 2009. Visual acuity in a cathemeral strepsirrhine (*Eulemur macaco flavifrons*). *Am J Primatol* 71: 342-352.

Manuscripts in review

1. **Veilleux CC, Scarry CJ, Di Fiore A, Kirk EC, Bolnick DA, Lewis RJ.** Group benefit associated with polymorphic trichromacy in a Malagasy primate (*Propithecus verreauxi*). Submitted to *Behavioral Ecology and Sociobiology*.
2. **Veilleux CC.** Sensory polymorphisms and dietary adaptation. Invited chapter for *Companion to Anthropological Genetics* (Wiley-Blackwell), edited by Dennis O'Rourke.

TEACHING EXPERIENCE

- 2015 Lecturer, Human Variation and Adaptation (ANTH5543-graduate level), Texas State University, fall
- 2013 Lecturer/Instructor, Primate Behavior (ANTH 3342), Texas State University, spring
- 2011 Teaching Assistant, Intro to Physical Anthropology Self-Paced, UT-Austin, fall
- 2011 Graduate Mentor, Intellectual Entrepreneurship Pre-Grad School Internship, fall
- 2010 Instructor, Intro to Physical Anthropology (ANT301), UT-Austin, summer
- 2010 Head Teaching Assistant, Intro to Physical Anthropology (ANT301), UT-Austin, spring
- 2009 Head Teaching Assistant, Intro to Physical Anthropology (ANT301), UT-Austin, spring
- 2009 Graduate Mentor, IE Pre-Grad School Internship (CSM 364M), spring
- 2008 Teaching Assistant, Primate Anatomy (ANT 432L), UT-Austin, fall
- 2008 Teaching Assistant, Intro to Physical Anthropology (ANT301), UT-Austin, summer
- 2007 Teaching Assistant, Intro. to Physical Anthropology (ANT301), UT-Austin, spring
- 2007 Graduate Mentor, IE Pre-Grad School Internship (CMS 364M), spring
- 2004-5 Research Assistant, Primate Evolution Database Project for Dr. Liza Shapiro

UNDERGRADUATE STUDENTS MENTORING

Kelly Chapman 2010-12
Blake Kincaid 2009-10
Maeve Cavanaugh 2009-10
Jenna Strawbridge 2009-10
Maggie Mitchell 2008-09
Abbas Haidry 2008-09
Rachel Menegaz 2005-06
Sara Zahendra 2005-06
Katy Klymus 2005

SCHOLARLY PRESENTATIONS

Published Abstracts of Presentations at Professional Meetings

1. Jacobs RL, **Veilleux CC**, Melin AD. submitted. Dichromacy as an adaptation for foraging in red-bellied lemurs (*Eulemur rubriventer*). Am Assoc Phys Anthropol 2016.
2. **Veilleux CC**, Bolnick DA, Di Fiore A, Lewis RJ. 2013. Is there a role for color-sensitive foraging in folivorous sifaka (*Propithecus verreauxi*)? *Am J Phys Anthropol* 150 (Suppl 56):276.
3. **Veilleux CC**, Louis EE, Bolnick DA. 2012. Genetic evidence of widespread differential selection for color vision in nocturnal lemurs. *Am J Phys Anthropol* 147 (Suppl 54):292.
4. **Veilleux CC**. 2011. Effects of nocturnal light intensity on calling frequency in dry forest *Phaner* and *Lepilemur*. *Am J Primatol* 73 (Suppl 1): 43.
5. **Veilleux CC**. 2011. Nocturnal light environments in Madagascar: implications for nocturnal primate color vision. *Am J Phys Anthropol* 144 (Suppl 52): 299.
6. **Veilleux CC**, Louis EE, Bolnick DA. 2010. Variation in nocturnal lemur color vision: ecological correlates of differential selection. *Am J Primatol* 72 (Suppl 1): 63.

7. **Veilleux CC**, Louis EE, Bolnick DA. 2010. Differential selection for color vision in two nocturnal folivores. *Am J Phys Anthropol* 141 (Suppl 50):233.
8. **Veilleux CC**, Lewis RJ. 2009. Effects of habitat light intensity on the evolution of mammalian visual anatomy: implications for primate ecology and evolution. *Am J Phys Anthropol* 138 (Suppl 48):261.
9. **Veilleux CC**. 2008. The influence of diet and activity pattern on visual acuity: implications for primate evolution. *Am J Phys Anthropol* 135 (Suppl. 46):213-214.
10. **Veilleux CC**, Kirk EC. 2007. A behavioral test of visual acuity in the cathemeral strepsirrhine *Eulemur macaco flavifrons*. *Am J Phys Anthropol* 132 (Suppl. 44):237.
11. **Veilleux CC**, Klymus K, Kirk EC. 2006. A behavioral method for measuring visual acuity in non-human primates. *Am J Primatol* 68 (Suppl. 1):76.

Scholarly Presentations without Published Abstracts

- 2010 “Nocturnal light environments and S-opsin gene evolution in nocturnal lemurs” poster at International Postgraduate Sensory Ecology Course, Lund University, Sweden
- 2009 “Habitat preference and nocturnal lemur color vision: implications for primate and human evolution” American Anthropological Association, Philadelphia PA

Invited Presentations

- 2015 “Ecological influences on visual acuity and color vision in non-human primates and humans.” Invited talk, Shoji Kawamura’s Laboratory of Evolutionary Anthropology, University of Tokyo, August 18, 2015.
- 2013 “Seeing the forest for the trees: ecology, vision, and primate evolution.” Invited talk, Stony Brook University, April 29, 2013.
- 2013 “Experiencing nocturnality: understanding the visual world of nocturnal lemurs.” Texas State University Anthropology Department Speaker Series, February 6, 2013.
- 2012 “Primate molecular ecology.” Guest lecture for Anthropological Genetics (ANT 349D), University of Texas at Austin, November 27th, 2012.
- 2009 “Nocturnal light environments: implications for nocturnal lemur visual systems” invited talk for Stony Brook University Study Abroad Program, Centre ValBio, Ranomafana National Park, Madagascar.

CONFERENCE PANELS ORGANIZED

- 2011 “Ears, eyes and noses: revisiting the ecology and evolution of primate special senses.” Poster symposium co-organized with Eva Garrett and Rachel Jacobs. American Association of Physical Anthropologists Annual Meeting, Minneapolis, MN.

RESEARCH EXPERIENCE

- 2015-16 Washington University in St. Louis Primate Molecular Ecology Lab (collaborator)
Bioinformatics and selection analyses of sensory genes in human hunter-gatherer and agricultural populations in Uganda and the Philippines
- 2013-14 Yale University Molecular Anthropology Laboratory
Gene expression in lemur tongues and the evolution of lemur taste receptor genes with Brenda Bradley

- 2007-13 Univ of Texas at Austin, Bolnick Molecular Anthropology Laboratory
Molecular analyses (*M/LWS* and *SWS1* opsin genes in lemurs), collaborating with Deborah Bolnick, Rebecca Lewis, Tony DiFiore (UT Austin), and Edward Louis (Omaha's Henry Doorly Zoo)
- 2009 Kirindy Mitea National Park and Ranomafana National Park, Madagascar
Field estimates of nocturnal and diurnal light and forest ecology
- 2005-6 Dalquest Research Site, Texas - Paleontological field assistant with Chris Kirk
- 2005 Univ of Texas at Austin, Ryan Lab - Experimental study of hormonal effects on male túngara frog (*Physalaemus pustulosus*) mating calls, collaborating with Elizabeth Dawson and Mike Ryan
- 2004-6 UT, Animal Resource Center - Behavioral test of visual acuity in *Eulemur flavifrons*
- 2003 Primate Foundation of Arizona - Behavioral study of social contagion in captive chimpanzees (student internship)

PROFESSIONAL SERVICE

- 2011-15 Reviewer, *American Journal of Physical Anthropology*, *PLOS One*, *Biological Journal of the Linnean Society*, *American Journal of Primatology*, *Molecular Ecology*
- 2009 Student Representative, Physical Anthropology Hiring Committee
- 2008-9 Chair, Liberal Arts Graduate Research Fellowship Committee, UT-Austin:
Implemented new online application system, evaluated grant proposals from graduate students, awarded \$40,000 grant funds
- 2008-9 Planning Committee, New Directions in Anthropology Graduate Student Research Conference, Anthropology Graduate Student Association
- 2008 Coordinator, Informal Physical Anthropology Seminar Series, UT-Austin.
- 2007-8 Co-chair, Liberal Arts Graduate Research Fellowship Committee, UT-Austin:
Developed new advertising campaign, evaluated grant proposals from graduate students, awarded \$50,000 grant funds

COMMUNITY OUTREACH

- 2010-13 Organizer, "Leaping Lemurs" interactive activity at ExploreUT, a university-wide "open house" for the public, designed to engage children of all ages in science and primatology
- 2011 Organizer, "Primate and Mammal Color Vision" interactive activity for K-12 teachers through UT Austin's Hot Science Cool Talks Outreach Series. Designed to help K-12 teachers develop lesson plans on trichromatic color vision in primates.
- 2006-9 Workshop Leader, Girlstart's Expanding Your Horizons Conference, a one-day conference for elementary and middle school girls to encourage interest in science and technology careers.

PROFESSIONAL SOCIETIES

American Association of University Women, American Association of Physical Anthropologists, American Association of Anthropological Genetics, American Society of Primatologists, American Society of Mammalogists, Phi Beta Kappa (elected 2004), Sigma Xi (elected 2007), Texas Association of Biological Anthropologists