

Amanda Dawn Melin

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Department of Anthropology & Archaeology
 and Cumming School of Medicine
 University of Calgary
 2500 University Drive
 Calgary, Alberta, Canada T2N 1N4

Sensory Ecology, Foraging Behaviour, Molecular Genetics & Genomics, Primate Evolution

PROFESSIONAL APPOINTMENTS

Assistant Professor	2016-present
<i>Department of Anthropology & Archaeology, Cumming School of Medicine</i>	
University of Calgary, Calgary, Alberta, Canada	
Assistant Professor	2014-2015
<i>Department of Anthropology</i>	
Washington University, St. Louis, Missouri, USA	
Postdoctoral Fellow	2011-2013
<i>Department of Anthropology; Ecology and Evolutionary Biology</i>	
Dartmouth College, Hanover, New Hampshire, USA	
Visiting Research Scientist	2010
<i>Department of Integrated Biosciences</i>	
University of Tokyo, Kashiwa, Chiba, Japan	

EDUCATION

Doctor of Philosophy	2006-2011
<i>Department of Anthropology</i>	
University of Calgary, Calgary, Alberta, Canada	
Master of Arts	2003-2006
<i>Department of Anthropology</i>	
University of Calgary, Calgary, Alberta, Canada	
Bachelor of Science with Distinction	1998-2003
<i>Department of Biological Sciences</i>	
University of Calgary, Calgary, Alberta, Canada	

RESEARCH GRANTS AND AWARDS

Current and Pending Grants and Fellowships

The Wenner-Gren Foundation: "Olfaction as an adaptation to hunting and gathering in the rainforest: testing old hypotheses with new approaches". Senior Personnel (Supervisor of PI)	\$20 000 (USD)	2015-2016
The Eppley Foundation Research Grant: "Assessing the impact of climate change on the health and diet of wild primates: integrating metagenomics with field biology". PI <i>Awarded</i>	\$29 189 (USD)	2014-2016
International Center for Advanced Renewable Energy and Sustainability (I-CARES) Grant: "Changing climates, shifting diets and responses of the gut microbiome in wild <i>Cebus</i> monkeys". PI <i>Awarded</i>	\$25 000 (USD)	2014-2015

Past Grants and Fellowships

NSERC Postdoctoral Fellowship	\$80 000 (CAD)	2012-2014
Clair Garber Goodman Research Fund	\$4 250 (USD)	2012
P.E.O. International Postdoctoral Scholar Award	\$15 000 (USD)	2011-2012
Wenner-Gren Dissertation Fieldwork Grant	\$17 139 (USD)	2009-2010
Alberta Odd Fellow Rebekah Visual Research Award	\$1 200 (CAD)	2009-2010
Sigma-Xi Grant-In-Aid of Research	\$500 (USD)	2008-2009
The Leakey Foundation General Research Grant	\$13 420 (USD)	2007-2009
NSERC Canada Graduate Scholarship, Doctoral	\$70 000 (CAD)	2007-2009
Animal Behaviour Research Grant	\$1 000 (USD)	2007-2008
Alberta Ingenuity Fund Scholarship	\$106 000 (CAD)	2004-2009
NSERC Postgraduate Scholarship A, Masters	\$34 600 (CAD)	2003-2005
American Society of Primatologists Research Grant	\$1 500 (USD)	2004
<i>9 additional institutional awards during graduate work</i>	> \$57 000 (CAD)	2003-2011

Honors and Leadership Awards

NASA and National Geographic FameLab Science Communication National Finalist	2014
Elected Membership – Full member of Sigma Xi, The Scientific Research Society	2014
Alberta Citizenship Award	2011
Operation Minerva Mentor Recognition	2010
<i>5 additional awards for communication and research excellence</i>	2001-2011

PUBLICATIONS

Journal Articles *denotes mentees in publications where A Melin played a mentoring role; †denotes corresponding authorship

Melin AD , Wells K, Moritz GL, Kistler L, Orkin JD, Timm RM, Bernard H, Lakim MB, Perry GH, Kawamura S, Dominy NJ. Euarchontan opsin variation brings new focus to primate origins. <i>Systematic Biology</i> .	Submitted
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- Melin AD**, Kline DW, Hiramatsu C, Caro T. Zebra Stripes Through the Eyes of Predators, Zebras, and Humans. *PLoSOne*. **In Review**
- Schoof V, Bonnell T, Jack K, Ziegler T, **Melin AD**, Fedigan L. Male endocrine response to seasonally varying environmental and social factors in a Neotropical primate, *Cebus capucinus*. *American Journal of Physical Anthropology*. **In Revision**
- Crowley BE, **Melin AD**, Dominy NJ. Oxygen isotope values reflect the ecology and physiology of Neotropical mammals. *Frontiers in Ecology and Evolution*. **In Review**
- Valenta K, **Melin AD**, Styler SA, Jackson DJ, Lehman SM, and Chapman CA. Evaluating the potential for chroma, luminance, odor, and hardness to cue or signal fruit ripeness. *The American Naturalist*. **In Review**
- Valenta K⁺, Edwards M, Rafaliarison RR, Johnson SE, Holmes SM, Brown KA, Dominy NJ, Lehman SM, Parra EJ, **Melin AD**⁺. Visual ecology of true lemurs suggests a cathemeral origin for the primate cone opsin polymorphism. *Functional Ecology*. **In Press**
- Valenta K*, Brown KA, Rafaliarison RR, Styler SA, Jackson DA, **Melin AD**. Endemic fruit signals in Madagascar drive variation in *Eulemur fulvus* foraging behavior and efficiency. *Behavioral Ecology and Sociobiology*. **In Press**
- Valenta K*, Brown KA, **Melin AD**, Monckton SK, Styler SA, Jackson DA, Chapman CA. It's Not Easy Being Blue: Are There Olfactory and Visual Trade-Offs in Plant Signalling. *PLoSOne*. 10: e0131725. **2015**
- Mosdossy K*, **Melin AD**⁺, Fedigan LM. Quantifying seasonal fallback on invertebrates, pith and bromeliad leaves by white-faced capuchin monkeys (*Cebus capucinus*) in a tropical dry forest. *American Journal of Physical Anthropology*. **2015**
- Melin AD**⁺, Danosi C*, McCracken G, Dominy NJ. Dichromatic vision in a fruit bat with diurnal proclivities, the Samoan flying fox (*Pteropus samoensis*). *Journal of Comparative Physiology A* 200: 1015-22. **2014**
- Melin AD**⁺, Crowley BE, Brown ST, Wheatley PV, Moritz GL, Tuh F, Bernard H, DePaolo DJ, Jacobson AD, Dominy NJ. Calcium and carbon stable isotope ratios as paleodietary indicators. *American Journal of Physical Anthropology* 154: 633-43. **2014**
- Melin AD**⁺, Young HC, Mosdossy K*, Fedigan LM. Seasonality, extractive foraging, and the evolution of primate sensorimotor intelligence. *Journal of Human Evolution* 71: 77-86. **2014**
- Moritz GL, **Melin AD**, Tuh F, Bernard H, Ong P, Dominy N. Niche convergence suggests functionality of the nocturnal fovea. *Frontiers in Integrative Neuroscience* 8: 1-12. **2014**
- Campos FA, Bergstrom ML, Childers A, Hogan JD, Jack KM, **Melin AD**, Mosdossy KN, Myers MS, Parr NA, Sargeant E, Schoof VAM, Fedigan LM. Drivers of home range characteristics across spatiotemporal scales in a Neotropical primate, *Cebus capucinus*. *Animal Behaviour* 91:93-109. **2014**
- Matsumoto Y, Hiramatsu C, Matsushita Y, Ozawa N, Ashino R, Nakata M, Kasagi S, Di Fiore A, Schaffner CM, Aureli F, **Melin AD**, Kawamura S. Evolutionary renovation of L/M opsin polymorphism confers a fruit discrimination advantage to ateline New World monkeys. *Molecular Ecology* 23: 1799-1812. **2014**

- Fedigan L, **Melin AD**, Addicott J, Kawamura S. The heterozygote superiority hypothesis for polymorphic colour vision is not supported by long-term fitness data from wild Neotropical monkeys. *PLoSOne* 9: e84872. **2014**
- Brent LJN, **Melin, AD**. The Genetic Basis of Primate Behaviour: Genetics and Genomics in Field-Based Primatology. *International Journal of Primatology* 35: 1-10. **2014**
- Melin AD**⁺, Hiramatsu C, Parr NA, Matsushita Y, Kawamura S, Fedigan LM. The behavioural ecology of colour vision: considering fruit conspicuity, detection distance and dietary importance. *International Journal of Primatology* 35: 258–287. **2014**
- Valenta K*, Burke RJ, Styler SA, Jackson DA, **Melin AD**, Lehman SM. Colour and odor drive fruit selection and seed dispersal by mouse lemurs. *Scientific Reports* 3: 2424. **2013**
- Melin AD**⁺, Kline D, Hickey CM, Fedigan L. Food search through the eyes of a monkey: a functional substitution approach for assessing the ecology of colour vision. *Vision Research* 86: 87-96. **2013**
- Melin AD**⁺, Matsushita Y, Moritz G, Dominy NJ, Kawamura S. Inferred M/L cone opsin polymorphism of ancestral tarsiers sheds dim light on the origin of anthropoid primates. *Proceedings of the Royal Society B*. 208 no. 1759. **2013**
- Melin AD**⁺, Moritz GL, Fosbury RA, Kawamura S, Dominy NJ. Why aye-ayes see blue. *American Journal of Primatology* 74: 185-192. **2012**
- Carnegie S, Fedigan L, **Melin AD**. Reproductive seasonality in female capuchins (*Cebus capucinus*) in Santa Rosa (Área de Conservación Guanacaste), Costa Rica. *International Journal of Primatology* 32: 1076-1090. **2011**
- Parr N, **Melin AD**, Fedigan LM. Figs are more than fallback foods: the relationship between *Ficus* and *Cebus* in a tropical dry forest. *International Journal of Zoology* 2011: 1-10. **2011**
- Lynch JW, Matthews L, Boyette A, Macfarlan SJ, Phillips KA, Falotico T, Ottoni E, Verderane M, Izar P, Schulte M, **Melin AD**, Fedigan L, Janson C, Alfaro M. Anointing variation across wild capuchin populations: A review of material preferences, bout frequency and anointing sociality in *Cebus* and *Sapajus*. *American Journal of Primatology* 73: 1-16. **2011**
- Melin AD**⁺, Fedigan LM, Young HC, Kawamura S. Can colour vision variation explain sex differences in invertebrate foraging by capuchin monkeys? *Current Zoology* 56: 300-312. **2010**
- Hiwatashi T, Okabe Y, Tsutsui T, Hiramatsu C, **Melin AD**, Oota H, Schaffner CM, Aureli F, Fedigan LM, Innan H, Kawamura S. An explicit signature of balancing selection for colour vision variation in New World monkeys. *Molecular Biology and Evolution* 27: 453–464. **2010**
- Melin AD**⁺, Fedigan LM, Hiramatsu C, Hiwatashi T, Parr N, Kawamura S. Fig foraging by dichromatic and trichromatic white-faced capuchin monkeys in a tropical dry forest. *International Journal of Primatology* 30: 753-775. **2009**
- Hiramatsu C, **Melin AD**, Aureli F, Schaffner CM, Vorobyev M, Kawamura S. Interplay of olfaction and vision in fruit foraging of spider monkeys. *Animal Behaviour* 77: 1421-1426. **2009**

- Hiramatsu C, **Melin AD**, Aureli F, Schaffner CM, Vorobyev M, Matsumoto Y, Kawamura S. Importance of achromatic contrast in short-range fruit foraging of primates. *PLoS One* 3: 1-12. **2008**
- Melin AD**⁺, Fedigan LM, Hiramatsu C, Kawamura S. Polymorphic colour vision in white-faced capuchins (*Cebus capucinus*): Is there foraging niche divergence among phenotypes? *Behavioural Ecology and Sociobiology* 62: 659-670. **2008**
- Melin AD**⁺, Fedigan L, Hiramatsu C, Sendall C, Kawamura S. Effects of colour vision phenotype on insect capture by a free-ranging population of white-faced capuchins (*Cebus capucinus*). *Animal Behaviour* 73: 205-214. **2007**
- Bergmann P, **Melin AD**, Russell A. 2006. Differential segmental growth of the vertebral column of the rat (*Rattus norvegicus*). *Zoology* 109: 54-65. **2006**
- Melin AD**, Bergmann P, Russell A. 2005. Mammalian postnatal growth estimates: the influence of weaning on the choice of a comparative metric. *Mammalogy* 86: 1042-1049. **2005**

Book Chapters

- Melin AD. Primate senses: finding and evaluating food. IN: Primate diet and nutrition: needing, finding, and using food. J.E. Lambert and J.M. Rothman (eds.), University of Chicago Press, Chicago. **In Progress**
- Kawamura S⁺ and **Melin AD**⁺. Evolutionary complementarity of colour vision and the chemical senses in primates, revisited. IN: Saitou N (ed). *Evolution of the Human Genome I: The Genome and Genes*. **In Review**
- Melin AD**⁺, Hiramatsu C, Fedigan LM, Schaffner CM, Aureli F, Kawamura S. Polymorphism and adaptation of primate colour vision. IN: *Evolutionary Biology: Mechanisms and Trends*. Pontarotti (ed). Springer, Heidelberg, Germany, p225-241. **2012**
- Valenta K, **Melin AD**. Protein limitation explains variation in primate colour vision phenotypes: a unified model for the evolution of primate trichromatic vision. IN *Zoology*, Maria-Dolores Garcia (Ed.), InTech, ISBN: 978-953-51-0360-8. **2012**
- Kawamura S, Hiramatsu C, **Melin AD**, Schaffner CM, Aureli F, Fedigan LM. Polymorphic colour vision in primates: evolutionary considerations. In: *Post Genome Biology of Primates* Hirai H, Imai H, and Go Y. (eds). Springer, Tokyo, Japan: 93-120. **2012**

PRESENTATIONS AND SCIENCE COMMUNICATION

Selected Conference Contributions (those presented by A. Melin)

- Melin AD**. Sensory ecology of wild capuchins: integrating fruit signals, nutrition, and foraging behavior. 17th Annual Meeting, Society for Evolutionary Studies, Tokyo, Japan. **2015**
- Valenta K, Brown KA, **Melin AD**, Monckton SK, Styler SA, Jackson DA and Chapman CA. Cost-based phylogenetically-controlled analysis of signal tradeoffs in primate-dispersed fruits. Oral presentation at the 84th Meeting, American Association of Physical Anthropologists, St. Louis, Missouri. **2015**

- Melin AD**, Shirasu M, Matsushita Y, Myers MS, Bergstrom ML, Venkataraman V, Rothman JM, Fedigan LM, Touhara K, Kawamura S. Examining the links among fruit signals, nutritional value, and the sensory behaviors of wild capuchin monkeys (*Cebus capucinus*). Oral presentation at the 84th Meeting, American Association of Physical Anthropologists, St. Louis, Missouri. **2015**
- Melin AD**, Moritz GL, Wells K, Danosi C, Matsushita Y, McCracken G, Kawamura S, Dominy NJ. Activity patterns, diet and the evolution of color vision in “Archonta”. Oral presentation at the 37th meeting of the American Society of Primatologists, Decatur, Georgia. **2014**
- Melin AD**, Crowley BE, Moritz GL, Jacobson AD, Dominy NJ. Calcium and carbon stable isotope ratios as paleodietary indicators. Poster presentation at the 83rd Meeting, American Association of Physical Anthropologists, Calgary, Alberta. **2014**
- Fedigan LM, Jack K and **Melin AD**. Collaborative long-term data sets and plans for the future: Thirty years of primate research in Costa Rica. Oral presentation at the 83rd Meeting, American Association of Physical Anthropologists, Calgary, Alberta. **2014**
- Melin AD**, Moritz GL, Wells K, Kawamura S, and Dominy, NJ. Visual pigments, treeshrews, and the origins of primates. Oral presentation at the XIV Congress of the International Primatological Society, Cancun, Mexico. **2012**
- Melin AD**, Mosdossy K, Young HC, and Fedigan, F. Seasonal variation in capuchin insectivory: Implications for the evolution of sensorimotor intelligence. Oral presentation at the 81st Meeting, American Association of Physical Anthropologists, Portland, Oregon. **2012**
- Melin AD**, Fedigan LM, Kline DW, and Kawamura S. Using multidisciplinary techniques to understand the adaptive significance of primate colour vision variation. Oral presentation at the 39th Annual Canadian Association of Physical Anthropologists Conference, Montreal, Quebec. **2011**
- Moritz GL, **Melin AD**, Fosbury R, Kawamura S, and Dominy NJ. Why aye-eyes see blue. Poster presentation at the 39th Annual Canadian Association of Physical Anthropologists Conference, Montreal, Quebec. **2011**
- Melin AD**, Kline DW, Hickey C, and Fedigan LM. Effects of color vision on finding food: insights from simulations of monkey vision. Poster presentation at the "Neuroethology: Behavior, Evolution & Neurobiology" Gordon Research Conference, Easton, Massachusetts. **2011**
- Melin AD**, Fedigan LM, and Parr N. Preference and seasonal use of “colourful” fruit: implications for primate colour vision. Oral presentation at the 6th Annual Canadian Society for Ecology and Evolution Conference, Banff, Alberta. **2011**
- Melin AD**, Parr N, Fedigan LM, and Kawamura S. Dietary selectivity by white-faced capuchins: how important are colourful fruits? Oral presentation at the XXIII Congress of the International Primatological Society, Kyoto, Japan. **2010**
- Melin AD**, Fedigan LM, Young H, and Kawamura S. Invertebrate foraging by Costa Rican capuchin monkeys: testing predicted sex differences in relation to colour vision variation. Oral presentation at the 33rd Annual Meeting of the American Society of Primatologists, Louisville, Kentucky. **2010**
- Melin AD**, McCabe G, and Fedigan LM. Are colourful fruits more nutritious? Implications for primate colour vision. Oral presentation at the 36th Annual Canadian Association of Physical Anthropologists Conference, Hamilton, Ontario. **2008**

- Melin AD**, Fedigan LM, Hiramatsu C, and Kawamura S. Fig foraging by capuchins: considering polymorphic colour vision. Oral presentation at the XXII Congress of the International Primatological Society, Edinburgh, Scotland. **2008**
- Melin AD**, Fedigan L, Hiramatsu C, and Kawamura S. Effects of colour vision phenotype on insect capture by free-ranging white-faced capuchin monkeys (*Cebus capucinus*) in Santa Rosa National Park, Costa Rica. Oral presentation given at the 29th Annual Meeting of the American Society of Primatologists, San Antonio, Texas. **2006**
- Melin AD**, Fedigan L, Hiramatsu C, and Kawamura S. Diet, foraging and colour vision: evaluating niche divergence among white-faced capuchins. Oral presentation given at the 34th Annual Canadian Association for Physical Anthropology Conference, Peterborough, Ontario. **2006**
- 29 presentations for which I am a co-author (not listed for brevity)* **2003-2014**

Invited Lectures

- University of Tokyo, Tokyo, Japan**, Visiting Speaker in Evolutionary Genomics Seminar **2015**
- New York University, New York New York**, Visiting Researcher in Anthropology **2013**
- Washington University in St. Louis**, Anthropology Colloquium Series **2013**
- University of Toronto, Toronto Canada**, Anthropology Colloquium Series **2012**
- University of California at Davis, Davis USA** Visiting Speaker in Primatology Seminar **2012**
- McGill University, Montreal Canada** Visiting Speaker in Anthropology Seminar **2011**
- University of Tokyo, Kashiwa Japan** Visiting Researcher in Integrated Biosciences Colloquium **2010**
- University of Calgary, Calgary Canada** Behavioural Neuroscience Research Seminar **2008**
- American School in Japan, Tokyo Japan** Visiting Scientist Presentations (multiple) for elementary, middle and high school students on primate conservation and ecology **2006-2010**

In the News: Popular Media Coverage of Research

- Williams C. [Many animals can still see colour in the dead of night](#). BBC Earth December 1. **2014**
- Grens K. [The Rainbow Connection](#): Color vision as we know it resulted from one fortuitous genetic event after another. The Scientist. October 1. **2014**
- Oosthoek S. [Bugs may have made us brainy](#). Science News for Students. July 18. **2014**
- [Insect diet helped early humans build bigger brains: Quest for elusive bugs spurred primate tool use, problem-solving skills](#). Science Daily. July 1. (Also featured on IFL Science) **2014**
- Everding G. Quest for elusive bugs spurred primate tool use, problem-solving skills. Washington University Newsroom. June 25. [Quest for elusive bugs spurred primate tool use, problem-solving skills](#). June 25 **2014**
- NASA and National Geographic FameLab Science Communication Finalist. [Colorblindness – disease or adaptation?](#) February 22. **2014**
- Keh D. [A Functional substitution approach for studying the ecology of primate color vision](#). Dug Dug. August 31. **2013**
- Mahony M. [The better to see you with](#). OnEarth. April 30. **2013**
- Quenqua D. [For Early Primates, a Night Filled With Color](#). New York Times. April 2. **2013**

- Dartmouth College. [Tarsiers' bulging eyes shed light on evolution of human vision](#). **2013**
ScienceDaily. March 27.
- MacIntosh A. [Extant models of early primates and the evolution of color vision](#). Centre for
International Collaboration and Advanced Studies in Primatology Podcast. August 8. **2012**
- Barone, J. [The Upside of Color Blindness](#). DISCOVER. April 2. **2007**
- Wayman, E. [An Eye for Camouflage](#). Science NOW. January 9. **2007**

RESEARCH EXPERIENCE

- Primate Genomics and Dietary Ecology Laboratory, PI** **Jan 2016**
*Department of Anthropology & Archaeology and Cumming School of Medicine,
University of Calgary*
Genetic and genomic research on the sensory systems, dietary adaptations,
microbiome, and ecology of wild primates and humans
- Santa Rosa Primate Project, Co-director (with LM Fedigan and K Jack)** **2011-present**
Área de Conservación Guanacaste (ÁCG), Costa Rica
Coordination of long-term behavioural, ecological and conservation-oriented research
on habituated capuchin monkeys and sympatric mammals
- Human Functional Substitution Model of Animal Vision** **2008-present**
Vision and Aging Lab, Department of Psychology, University of Calgary
Design novel ways to evaluate the real-world consequences of colour and spatial
vision variation present among mammals with a focus on foraging and predation
pressures
- Primate Molecular Ecology Laboratory, PI** **2014-2015**
Department of Anthropology, Washington University in St. Louis
Genetic and behavioral research on the visual systems, activity patterns, dietary
adaptations, and ecology of primates and other small mammals
- Relationships of Activity Pattern, Diet and Sensory Ecology of treeshrews** **2011-2015**
Danum Valley and Mount Kinabalu, Sabah, Borneo
Integration of genetics, ecology, behaviour and stable isotopes to investigate
relationships among sensory phenotypes, diet and activity pattern in diverse
mammalian communities spanning trophic levels

TEACHING EXPERIENCE

Courses Instructed

- Washington University in St. Louis*
- | | |
|---|--------------------|
| Anthropology 4911: Methods in Molecular Anthropology | Fall 2015 |
| Anthropology 4181: Comparative Methods in Physical Anthropology | Spring 2015 |
| Anthropology 4202: Anthropological Genetics | Fall 2014 |
| Anthropology 3661: Primate Biology | Fall 2014 |

Dartmouth

Anthropology 85: Undergraduate Independent Research 1	Fall 2012
Anthropology 87: Undergraduate Independent Research 2	Spring 2013

University of Calgary

Anthropology 311: Primate Behaviour	Spring 2011
Anthropology 435: Evolutionary Anthropology	2010-2011
Psychology 505: Special Topics in Colour Vision and Colour Vision Deficiencies	Winter 2009
Anthropology 505: Research Design and Development in Primatology	2007-2008
Anthropology 552: Field Studies in Primatology	Winter 2007

Teaching Credentials*University of Calgary*

University Teaching Certificate	2010
Instructional Skills Workshop	2009

MENTORING AND OUTREACH

Postdoctoral Fellows and Senior Trainees Supervised

Joseph Orkin, Ph.D. <i>Washington University</i> . Changing environments, diet, and the gut microbiome of wild capuchin monkeys	2014-present
Eva Garrett, Ph.D. <i>Washington University</i> . Olfaction as an adaptation to hunting and gathering in the rainforest: testing old hypotheses with new approaches	2014-present
Mrinalini Watsa, Ph.D. <i>Washington University</i> . Genetic chimeras in callitrichid primates	2013-present

Graduate Research Supervised

Shasta Webb, M.A. <i>Washington University in St. Louis</i> . Microbial adaptations to diet in wild Costa Ricans capuchin monkeys	2015-present
Jeremy Hogan, M.A. <i>University of Calgary</i> . Monkey-flower interactions in a seasonal dry forest (Co-supervised with Dr. Fedigan, University of Calgary)	2012-2014
Kimberly Valenta, Ph.D. <i>University of Toronto</i> . Colour vision and foraging ecology of <i>Eulemur fulvus</i> . (Faculty mentor)	2011-2014
<i>Also currently serving on 6 graduate student committees at Washington University</i>	2014-present

Undergraduate Research Supervised

Kelly Kries, <i>Washington University</i> . Molecular ecology and evolution of Phyllostomid bats	2014-2015
Cassandra Mitchell <i>Washington University</i> . Chimerism in callitrichid primates (Co-supervised with Dr. Watsa, Washington University)	2014-2015
Anna Villanyi, <i>Washington University</i> . Observer effects on captive primates at the St. Louis Zoo	2014-2015
Christina Danosi, <i>Dartmouth College</i> . Testing the diurnal frugivory hypothesis of primate colour vision in a fruit bat (<i>Pteropus samoensis</i>) with diurnal proclivities	2012-2013

- Nalisha Kassam, *University of Calgary*. Effects of natural and simulated human colour vision deficiencies on search time and accuracy **2009-2010**
- Michael Lemmon, *University of Calgary*. Establishment and host preference of *Ficus* trees in a tropical dry forest **2008**
- Adrienne Blauel, *University of Calgary*. Predictors of predator alarm calls and responses by capuchin monkeys: evaluating sex, age and colour vision status **2008**

Public Outreach

- Cybermentor Program*, website-based, Mentor **2003-Current**
A mentoring program, which pairs professional women in science and engineering with young girls, aged 11-18. Involves weekly emails with a mentee about science-related topics as well as her individual interests and career goals. Provides constructive comments, listening and encouragement.
- WitsOn (Women in Technology Sharing Online)*, website-based, Mentor. **2012-2013**
An online program connects undergraduate students pursuing degrees in science, technology, engineering and medicine (STEM) with female mentors from industry and academia who share experience in issues of particular concern to women. The desired outcome is increased representation of women in STEM areas
- Women in Science Program (WISP)*, Dartmouth College, Mentor **2011-2012**
A research internship program, offered to first and second year female students; designed to recruit, retain and engage young women, who are under-represented in science, math and engineering, as active members of the research community
- Operation Minerva*, Calgary, Canada, Mentor **2010**
Job-shadowing project to encourage young women (Grade 8) to consider careers in science, engineering, math and technology and promote their self-confidence
- Girls Field Hockey*, Lord Beaverbrook High School, Calgary, Canada, Head Coach **1999-2003**
Helping high school girls develop discipline and skill while emphasizing team work and sportsmanship

PROFESSIONAL SERVICE

Departmental Activities

- Established a Physical Anthropology Writing Group* **2015**
Faculty, postdocs, and graduate students meet weekly off campus for 4 hours to write and discuss current manuscripts in progress
- Established the Washington University Genetics Group (WUGG)* **2014-2015**
Faculty, postdocs, lab personnel, graduate and undergraduate students from local universities and The Genome Institute meet bi-monthly to discuss theory, analysis and tools in genetics and genomics with a focus on application to current projects

Symposia Organized, Sessions Chaired and Other Conference Activities

- Local Arrangements Committee: 84th congress of the American Association of Physical Anthropologists, St. Louis, Missouri, USA; www.aapa2015.com* **2014-2015**
- Variation & Evolution of Primate Colour Vision Revealed by Cross-Disciplinary Studies (Symposium organized with S Kawamura): XXIII Congress of the International Primatological Society, University of Kyoto, Japan* **2010**
- Ecology and Conservation of Non-human Primates (Session Chair): 33rd Annual American Society of Primatologists congress, Louisville, Kentucky, USA* **2010**
- Neotropical Primate Ecology Workshop: Genes, Behaviour and the Senses (Symposium organized); Departmental symposium with four invited guest speaker in the area of sensory and behavioural ecology, University of Calgary, Canada* **2009**

Editorial and Referee Activities

- Review Editor; Frontiers in Ecology and Evolution* **2015-present**
- Guest Editor (with L.J.N. Brent); International Journal of Primatology Special Issue on The Genetic Basis of Primate Behaviour* **2014**
- Manuscript reviews (number reviewed)*
 American Journal of Primatology (1), American Naturalist (1), Animal Behaviour (2), Biology Letters (1), BMC Evolutionary Biology (1) Evolutionary Anthropology (1), International Journal of Primatology (5), Journal of Experimental Zoology (1), Journal of Human Evolution (2), PLoS ONE (4), Proceedings of the Royal Society of London B (3)
- Funding reviews (number reviewed)*
 NSF CAREER grant (1), Graduate Women in Science grant (2), Leakey Foundation Fieldwork grant (1), University of Vienna research platform review (1).

Professional Memberships

American Association of Physical Anthropologists (AAPA)
 American Association for the Advancement of Science (AAAS)
 American Association of Anthropological Geneticists (AAAG)
 American Society of Primatologists (ASP)
 Animal Behaviour Society (ABS)
 International Primatological Society (IPS)
 Sigma XI

LANGUAGES

English: native language

Spanish: near fluent; speak, read, write, and translate

Note: throughout this document alternate spellings of words (e.g. color vs. colour) in titles reflect differing practices of the journals and societies in which the research was published/ presented