

RAVINDER N. M. SEHGAL

Institutional Address:

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CITIZENSHIP: Sweden, USA, Lithuania, India (OCI)

EDUCATION/ PROFESSIONAL EXPERIENCE:

- 2007-present Assistant Professor
 Dept. of Biology
 San Francisco State University, San Francisco, CA.
- 2003-2007 Adjunct Professor
 Dept. of Biology,
 San Francisco State University, San Francisco, CA.
- 2001-2004 Postdoctoral Fellow
 Research Advisors: Professor Thomas B. Smith, Ph.D. and Professor Lisa A. Tell, D.V.M.
 University of California, Davis, Davis, CA.
- 1999-2001 Postdoctoral Fellow
 Research Advisor: Professor Thomas B. Smith, Ph.D.
 Center for Tropical Research, San Francisco State University, San Francisco, CA.
- 1998-1999 Cell Biology Specialist
 Guava Technologies, Alameda, CA.
- 1998 Advances in Conservation Genetics Course
 Smithsonian Institution, Front Royal, VA.
- 1988-1997 Ph.D. in Cell Biology
 Thesis Advisor: Professor Louis F. Reichardt, Ph.D.
 Dept. of Biochemistry and Biophysics
 University of California, San Francisco, San Francisco, CA.
- 1992-1994 Graduate Research Project
 Advisor: Professor Håkan Persson, Ph.D.
 Karolinska Institute, Lab of Molecular Neurobiology, Stockholm, Sweden
- 1984-1988 B.A. in Biology and B. Music
 Oberlin College and Conservatory of Music, Oberlin, OH.

RESEARCH EXPERIENCE:

1. Current Position: Assistant Professor at San Francisco State University

Current Projects:

- *Research on the effects of deforestation on the prevalence of blood-borne pathogens in African rainforest birds. We are completing a multi-year study, in collaboration with the Center for Tropical Research at UCLA, studying how the host specificity and prevalence of avian malaria are affected by deforestation*
- *Research on the effects of pathogens on the migration of California raptors. In collaboration with Buzz Hull at the Golden Gate Raptor Observatory, we have been monitoring the effects of avian malaria on the migration of Red-tailed Hawks.*
- *Research on the ecology and evolution of host specificity of avian blood parasites. I have recently been awarded a grant from the NIH to study the molecular basis of host specificity of avian malaria. We will study the homologues of the protein EBA-175 using a comparative genomics approach. The information will be pertinent to understanding the molecular basis of emerging diseases.*
- *Research on the effects of habitat fragmentation on the spread of disease in Costa Rican birds. In collaboration with Dr. Cagan Sekercioglu at Stanford University, we are testing how bird movements can influence the spread of avian pathogens.*
- *Research on the pathogens of Socorro Island, Mexico. In collaboration with Endemicos Insulares, and Dr. Juan Martinez at the University of Veracruz, Mexico, we are working on reintroducing the Socorro Island dove to its native habitat. We are examining the avian pathogens of native birds. This will be the first reintroduction of a locally extinct species to its native island habitat.*

2. Adjunct Professor at San Francisco State University

Research on the blood parasites of African rainforest birds.

3. Postdoctoral Research: Center for Tropical Research, SFSU, and UC Davis

Research on the host specificity and ecology of Trypanosoma, hemosporidia, microfilariae, and West Nile Virus in birds of Africa and California with a conservation perspective.

Advisors: Thomas B. Smith, Ph.D., Lisa A. Tell, D.V.M

4. Ph.D. Research: UCSF and Karolinska Institute

Thesis: Roles of α -catenin in the early development of *Xenopus laevis*.

Developed dominant negative mutations of α -catenin to elucidate roles of α -catenin in early gastrulation and the Wnt signaling pathway in Xenopus laevis. Cloned chicken BDNF, and trkC and developed polyclonal antibodies to study the role of neurotrophins in chick neurogenesis.

Advisors: Louis F. Reichardt, Ph.D., UCSF, Håkan Persson, Ph.D., Karolinska Institute, Carlos Ibáñez, Ph.D., Karolinska Institute, Barry Gumbiner, Ph.D., Memorial Sloan-Kettering Cancer Center.

5. Biotechnology Research: Guava Technologies

Aided in the development and characterization of a novel portable flow cytometer.

Advisor: Phillipe Goix, Ph.D., Founder of Guava Technologies, Hayward, CA.

GRANTS:

During my 2nd-3rd years (2008-2009) as an Assistant Professor at SFSU, I secured a grant from the NIH, and I submitted two large grants to the NSF.

I have written 18 extramural grants for research funding during my affiliation with SFSU. Listed are the ones that were funded. In total, I have brought over \$1,250,625 in extramural funds to SFSU during my affiliation with the university.

Since the Fall of 2007

1. **NIH SC2** “Malaria erythrocyte binding-like genes & host specificity in a natural population” Principal Investigator: Ravinder Sehgal. \$460,500 total, \$300,000 in direct costs. Oct. 2009-August 2012.
2. **SFSU mini-grant, 2008.** “Avian malaria in migrating California hawks” \$5000.

I HAVE RECENTLY SUBMITTED THESE TWO PROPOSALS TO THE NSF.

- "Collaborative Research: Effects of host and vector specificity on the transmission of avian malaria in Africa." To Evolutionary Ecology PD 09-1127. Submitted July 9, 2009. Working with professors at UCLA, UC Berkeley, UC Davis, Buea University in Cameroon, and Vilnius University, Lithuania. SFSU is the lead institution.
- “Examining global climate change and molecular mechanisms involved in the spread of avian malaria”, CAREER, NSF08557. Submitted July 21, 2009.

Prior to my appointment as an Assistant Professor at SFSU

3. **NIH-NSF Ecology of Infectious Diseases Program.** “Effects of deforestation on the prevalence of blood-borne pathogens in African rainforest birds.”
Principal Investigators: Thomas B. Smith and Ravinder Sehgal. Funded \$1,741,000. SFSU portion: \$768,125 total, \$345,646 in direct costs. Sept. 2004-Aug. 2009. *This funding continued through my first two years as an Assistant Professor at SFSU.*
4. **NATO Cooperative Linkage Grant** “Epizootiology of avian hematozoa; linking genetic and traditional parasitology data”.
Principal Investigators: Ravinder Sehgal and Gediminas Valkiūnas.
Funded \$22,000. 2002-2004.
5. **Professors of the Future Postdoctoral Career Development Program Recipient.**
“Using habitat structure and stability to predict the incidence of infectious diseases in African rainforest birds”. 2001-2004.
6. **Research in Minority Institutions (RIMI) Postdoctoral Award Recipient.** 1999-2001.

TEACHING:

*During my 2nd-3rd years (2008-2009) as an Assistant Professor at SFSU, I taught an entirely new course, *Emerging Infectious Diseases*, and *Parasitology and Parasitology Laboratory*. I also co-taught the *Colloquium in Molecular Biology and Microbiology*. I received an “Outstanding Teacher” award from the Department of Biology in May 2009.*

- BIOL 453 “General Parasitology” Fall 2009, Spring 2008 and 2009 at SFSU

- BIOL 454 “Parasitology Laboratory” Fall 2009 and Spring 2009 at SFSU
- BIOL 871 “Colloquium in Microbiology and Molecular Biology” Spring 2009 at SFSU
- BIOL 425 “Emerging Infectious Diseases” Fall 2008 at SFSU
- BIOL 864 “Recent Developments in Microbiology” Fall 2007 at SFSU
- BIOL 318 “Our Endangered Planet” Fall 2007 at SFSU
- BIOL 478 “Ornithology” Spring 2006 at SFSU
- BIOL 380 “Comparative Embryology” Spring 2002 and Spring 2003 at SFSU
- Substitute High School Teacher, Stockholm, Sweden, 1997-1998. Subjects: English, German, and Music.
- Graduate Teaching Assistant at UCSF for Pharmacy Students, 1989.

Courses since 2007

Semester	Course	Title	Enrollment	Q# 6 score	Overall Teaching Effectiveness
Fall 2009	Biol 453	Parasitology	68		
Fall 2009	Biol 454	Parasitology Lab	14		
Spring 2009	Biol 453	Parasitology	69	1.38	1.39
Spring 2009	Biol 454	Parasitology Lab	16	1.13	1.09
Spring 2009	Biol 871	Colloquium	43	1.30	1.42
Fall 2008	Biol 425	Emerging Diseases	61	1.15	1.11
Spring 2008	Biol 453	Parasitology	58	1.15	1.10
Fall 2007	Biol 864	Recent Microbiology	16	1.00	1.00
Fall 2007	Biol 318	Endangered Planet	139	1.65	1.54

The mean for Question #6 of the student evaluations for the last 3 academic years in the Biology Department for Assistant Professors (Fall 2006 through Spring 2009) is: Lower Division 2.36, Upper Division 1.72, and Graduate Division 1.39. My scores are consistently above average, and in 2009 I received an Outstanding Teacher Award from the Biology Department.

In addition I have given several guest lectures:

- Guest lecture for Greg Spicer’s Ornithology class. March 12th, 2009.
- Guest lecture for Dr. Rauri Bowie, Ornithology Class, UC Berkeley, April 29th, 2009.
- Guest lecture for Mike Vasey’s Endangered Planet class, May 6th, 2009.
- Guest lecture for Greg Spicer’s Ornithology class. March 12th, 2008.
- Guest lecture for Robert Ramirez’ Virology class. Fall, 2008.

Description of Courses taught since Fall 2007.

Biol 453 “General Parasitology”

Although this course was in the curriculum, I developed a completely new course. The course teaches the fundamentals of Parasitology, with an emphasis on human parasites. I focus on cooperative learning, and we have group exercises in every class session that focus on recent developments in the field of Parasitology.

Biol 454 “Parasitology Laboratory”

This is a new course preparation. The lab meets 3 hours a week, and students learn the morphology of parasites, plus molecular methodologies to diagnose and understand the evolution of human parasites.

Biol 425 “Emerging Infectious Diseases”

This is an entirely new course that I developed. The emphasis is on new and emerging pathogens such as avian influenza, tuberculosis, prion diseases, and Ebola. Cooperative learning is emphasized with assessment based on group projects, open and closed book exams, and online quizzes. The field of emerging diseases is changing rapidly, and students are exposed to the current primary literature.

Biol 864 “Recent developments in Microbiology”

I developed this upper division/graduate seminar course to expose students to recent literature in the field of microbial pathogens. Students did individual presentations.

Biol 871 “Colloquium in Microbiology and Molecular Biology”

This is a seminar course with invited speakers. Students are assessed by completing written summaries of the speakers presentations. I co-taught this course with Dr. Laura Burrus.

Biol 318 “Our Endangered Planet”

This course is taught each semester to lower division undergraduate students. I developed new lectures for this course while bringing in recent topics such as the oil spill in the San Francisco Bay, and trends in overpopulation.

RESEARCH STUDENTS while at SFSU:

I currently have 5 Master’s students working in my laboratory. I also have one Postdoctoral Fellow, and 3 undergraduate students. Since my appointment as an Assistant Professor at SFSU, I have graduated 2 Master’s students, and a third will graduate in November 2009.

Claire Loiseau, PhD	08-now	Postdoctoral Fellow studying ecology of avian disease.
Criseyda Martinez	09-now	Master’s Student on host specificity in malaria.
Molly Dodge	09-now	Master’s Student on parasites of African birds.
Ashley Green	09-now	Undergraduate-SFSU California hummingbirds
Joy Dionisio	09-now	Undergraduate-SFSU Birds of Costa Rica
Trevor C. Rodriguez	09-now	Undergraduate-SFSU African blood parasites
Jenny Carlson	08-now	Master’s Student on Avian Trypanosomes at SFSU
Holly Archer	08-now	Master’s Student on Costa Rican avian diseases at SFSU
Mark Jasper	07-now	Master’s Student on California Raptors at SFSU
Dennis Anye Ndeh	08	Visiting Master’s student from Cameroon
Tony Chasar	06-09	Master’s Student on African bird diseases at SFSU
Heather Lannie	05-07	Master’s Student on California Raptors at SFSU
Diego Santiago	04-08	PhD Student, University of Missouri, St. Louis; thesis committee
Steve Lee	08-09	Undergraduate –SFSU Parasites in SF Zoo penguins
Anna Hutchinson	06-08	Undergraduate -SFSU Parasites in California owls
Charlene Pinto	07-09	Undergraduate –SFSU Parasites in African Chickens
Judy Makena	07	Undergraduate –SFSU Parasites in African birds
Maria Svensson	05-07	Undergraduate-UC Berkeley Parasites of Swainson’s Thush
Shiho Kawamura	04-06	Undergraduate -SFSU <i>Leucocytozoon</i> in Raptors
Dawn LoBaugh	04-05	Undergraduate -SFSU Technical support
Forest Soriano	03-04	Undergraduate -SFSU <i>Haemoproteus</i> in African birds
Allison Lee	04-04	Undergraduate -SFSU <i>Haemoproteus</i> in Raptors
Molly Sternberg	02-03	Undergraduate -SFSU <i>Plasmodium</i> in genus <i>Nectarinia</i>
Jacklyn Taal	02-03	Undergraduate -SFSU Technical support
F. Alex Richard	00-02	Undergraduate -SFSU PCR methodologies

Student Outcomes since 2007

- Dr. Claire Loiseau is a postdoctoral fellow from France studying various aspects of the host specificity of avian blood parasites of African rainforest birds. She co-authored an NSF grant, and plans to remain in the lab through 2010.
- Heather Lannie (Ishak) graduated in Sept. 2007 with a Master's degree. The title of her thesis is "Prevalence and phylogenetics of blood parasites from the order Haemosporidia in raptors." Her work resulted in two publications, one published in *PLoS One*, the other is under revision. She is currently a Research Associate at the University of Texas, Austin. She plans to pursue a PhD.
- Anthony Chasar graduated in Jan. 2009 with a Master's degree. The title of his thesis is "Effects of deforestation on the prevalence and diversity of blood parasites in two African rainforest birds." He is currently a Research Associate at UCLA, and will be continuing research in Cameroon.
- Mark Jasper is graduating in Nov. 2009 with a Master's degree. The title of his thesis is "Identifying Migratory Populations of Red-tailed Hawks in California Using Genetic, Stable Isotope and Haemoparasite Data". He plans to work in the US government.
- Jenny Carlson is currently a Master's student and plans to graduate in Spring 2010. She plans to pursue a PhD at UC Davis. She is studying the pathogens of birds and mosquitoes on Socorro Island, Mexico.
- Holly Archer is currently a Master's student and plans to graduate in Spring 2010. She plans to pursue a PhD. She is studying the effects of forest fragmentation on avian malaria in Costa Rica.
- Molly Dodge has recently begun her Master's degree. She is studying *Leucocytozoon* parasites in African rainforest birds.
- Criseyda Martinez has recently begun her Master's degree. She is studying EBA proteins in avian malaria.
- Dennis Anye Ndeh was a visiting Master's student from Cameroon. He worked for one semester at SFSU studying molecular biology and avian malaria.
- Anna Hutchinson was an undergraduate student assistant studying blood parasites of African birds. She is now a veterinary student at Cornell University.
- Charlene Pinto was an undergraduate student assistant studying blood parasites of chickens and ostriches. She has returned to Sri Lanka.

Thesis Committees since 2007

- Shiho Kawamura, SFSU
- Damien Whitfield, SFSU
- Tina Cheng, SFSU
- Tricia Goulding, SFSU
- Ami Antani, SFSU
- Diego Santiago Alarcon, PhD Committee, University of Missouri, St. Louis
- Maria Svensson, PhD Committee, University of Missouri, St. Louis
- Asta Krizanauskiene, PhD Committee, University of Vilnius, Lithuania

PUBLICATIONS:

During my 2nd-3rd years at SFSU (2008-2009), I published 10 papers in peer-reviewed journals. I am the senior author on 7 of them. My students have been included as authors on several of these publications.

1. C. Loiseau°, G. Valkiūnas, A. Chasar*, A. Hutchinson•, T. Iezhova and **R. Sehgal**. *In Press*. Spatial variation of haemosporidian parasite infection in African rainforest bird species. Journal of Parasitology
2. G. Valkiūnas, **R. Sehgal**, T. A. Iezhova, and A. C. Hull. 2009. Identification of *Leucocytozoon toddi* group (Haemosporida, Leucocytozoidae), with remarks on the species taxonomy of leucocytozoids. Journal of Parasitology
3. T. A. Iezhova, G. Valkiūnas, C. Loiseau*, **R. Sehgal**. 2009. *Haemoproteus cyanomitrae* sp. Nov. (Haemosporida, Haemoproteidae) from a widespread African songbird, the Olive Sunbird (*Cyanomitra olivacea*). Journal of Parasitology.
4. A. Chasar*, C. Loiseau°, G. Valkiūnas, T. Iezhova, T. B. Smith, **R. Sehgal**. 2009. Prevalence and diversity patterns of African avian blood parasites in degraded habitats. Molecular Ecology. 18: 4121-33.
5. K. Y. Njabo, A. J. Cornel, **R. Sehgal**, C. Loiseau°, W. Buermann, R. Harrigan, J. Pollinger, G. Valkiūnas and T.B. Smith. 2009. *Coquillettidia* (Culicidae, Diptera) mosquitoes are natural vectors of avian malaria in Africa. Malaria Journal. 8: 193.
6. G. Valkiūnas, T. A. Iezhova, C. Loiseau° and **R. Sehgal**. 2009. Nested cytochrome *b* polymerase chain reaction diagnostics detect sporozoites of haemosporidian parasites in peripheral blood of naturally infected birds. Journal of Parasitology.
7. Bonneaud, C., I. Sepil, B. Milá, W. Buermann, J. Pollinger, **R. Sehgal**, G. Valkiūnas, T. Iezhova, S. Saatchi and T. B. Smith. 2009. The prevalence of avian *Plasmodium* is higher in undisturbed tropical forests of Cameroon. Journal of Tropical Ecology. 25: 439-447.
8. G. Valkiūnas, T. A. Iezhova, C. Loiseau°, T. B. Smith and **R. Sehgal**. 2009. New malaria parasites of the subgenus *Novyella* in African rainforest birds, with remarks on their high prevalence, classification and diagnostics. Parasitology Research. 104:1061-1077.
9. G. Valkiūnas, T. A. Iezhova, C. Loiseau°, A. Chasar*, T. B. Smith and **R. Sehgal**. 2008. New species of haemosporidian parasites (Haemosporida) from African rainforest birds, with remarks on their classification. Parasitology Research. 103(5): 1213-28.
10. G. Valkiūnas, T. A. Iezhova, A. Krizanauskiene, V. Palinauskas, **R. Sehgal**, S. Bensch. 2008. A comparative analysis of microscopy and PCR-based detection methods for blood parasites. Journal of Parasitology. 94: 1395-1401.
11. H. D. Ishak*, J. P. Dumbacher, N. L. Anderson, J. J. Keane, G. Valkiūnas, S. M. Haig, L. A. Tell and **R. Sehgal**. 2008. Blood parasites in owls with conservation implications for the Spotted Owl (*Strix occidentalis*). PLoS One. 3(5): e2304.
12. G. Valkiūnas, C. T. Atkinson, S. Bensch, **R. Sehgal** and R. E. Ricklefs. 2008. Parasite misidentifications in GenBank: how to minimize their number? Trends in Parasitology. 24(6): 247-248.
13. L. M. E. Svensson•, K. C. Ruegg, C. H. Sekercioglu, and **R. Sehgal**. 2007. Widespread and structured distributions of blood parasite haplotypes across a migratory divide of the Swainson's thrush (*Catharus ustulatus*). Journal of Parasitology. 93(6): 1488-1495.

14. **R. Sehgal**, G. Valkiūnas, T. A. Iezhova and T. B. Smith. 2006. Blood parasites of chickens in Uganda and Cameroon with molecular descriptions of *Leucocytozoon schoutedeni* and *Trypanosoma gallinarum*. Journal of Parasitology. 92(6): 1336-1343.
15. J. Masello, R. Gustavo Choconi, **R. Sehgal**, L. A. Tell and P Quillfeldt. 2006. Blood and intestinal parasites in wild Psittaciformes: A case study of Burrowing parrots (*Cyanoliseus patagonus*). Ornología Neotropical. 17: 515-529.
16. **R. Sehgal**, A. C. Hull, N. Anderson, G. Valkiūnas, M. J. Markovets, S. Kawamura• and L. A. Tell. 2006. Evidence for cryptic speciation of *Leucocytozoon* spp. (Haemosporida, Leucocytozoidae) in diurnal raptors. Journal of Parasitology. 92(2): 375-379.
17. **R. Sehgal**, H. I. Jones, and T. B. Smith. 2005. Molecular evidence for host-specificity of parasitic nematode microfilariae in some African rainforest birds. Molecular Ecology. 14:3977-3988.
18. G. Valkiūnas, **R. Sehgal**, T. A. Iezhova, and T. B. Smith. 2005. Further observations on the blood parasites of birds in Uganda. Journal of Wildlife Diseases. 41(3): 580-587.
19. **R. Sehgal**, H. I. Jones, and T. B. Smith. 2005. Blood parasites of some West African birds. Journal of Veterinary Medical Sciences. 67(3): 295-301.
20. H. I. Jones, **R. Sehgal** and T. B. Smith. 2005. *Leucocytozoon* (Apicomplexa: Leucocytozoidae) from West African birds, with descriptions of two species. Journal of Parasitology. 91(2): 397-401.
21. **R. Sehgal** and I. J. Lovette. 2003. Molecular evolution of three avian neurotrophin genes: implications for proregion functional constraints. Journal of Molecular Evolution. 57: 335-342.
22. F. A. Richard•, **R. Sehgal**, H. I. Jones, and T. B. Smith. 2002. A comparative analysis of PCR-based detection methods for avian malaria. Journal of Parasitology. 88(4): 819-822.
23. **R. Sehgal**, H. I. Jones, and T. B. Smith. 2001. Host Specificity and incidence of *Trypanosoma* in some African rainforest birds: a molecular approach. Molecular Ecology. 10(9): 2319-2328.
24. **R. Sehgal**, B. Gumbiner, and L. F. Reichardt. 1997. Antagonism of cell adhesion by a mutant of alpha-catenin, and antagonism of the Wnt-Signaling Pathway by alpha-catenin in *Xenopus* embryos. Journal of Cell Biology. 139(4): 1033-1046.

25. T. Svensson, M. Rydén, F. H. Schilling, C. Dominici, **R. Sehgal**, C. F. Ibáñez, and P. Kogner. 1997. Coexpression of mRNA for the full-length neurotrophin receptor trk-C and trk-A in favourable neuroblastoma. European Journal of Cancer. 33(12): 2058-2063.
26. M. Rydén, **R. Sehgal**, C. Dominici, F. H. Schilling, C. F. Ibáñez, and P. Kogner. 1996. Expression of mRNA for the neurotrophin receptor trk-C in neuroblastomas with favourable tumour stage and good prognosis. British Journal of Cancer. 74(5): 773-779.
27. Y. Choi, **R. Sehgal**, P. McCrea, and B. Gumbiner. 1990. A cadherin-like protein in eggs and cleaving embryos of *Xenopus laevis* is expressed in oocytes in response to progesterone. Journal of Cell Biology. 110: 1575-1582.

MANUSCRIPTS UNDER REVIEW:

1. **R. Sehgal**. Impacts of deforestation on avian infectious diseases. Journal of Experimental Biology.
2. T. B Smith, **R. Sehgal**, W. Buermann, H. A. Thomassen, C. Bonneaud, S. Saatchi, J. P. Pollinger, B. Milá, D. B. Pires, G. Valkiūnas and R. K. Wayne. Divergence with gene flow and patterns of parasite prevalence in the olive sunbird (*Cyanomitra obscura*) across the African rainforest-savanna ecotone. BMC Evolutionary Biology

MANUSCRIPTS IN PREPARATION:

1. S. Yanga, J. Martinez-Gomez, **R. Sehgal**, P. Escalante-Pliego, F. C. Camacho, D. A. Bell. A preliminary survey for avian pathogens of Columbiformes on Socorro Island, Mexico.
2. **R. Sehgal**, C. Loiseau^o, A. Chasar*, G. Valkiūnas, T Iezhova, C. Bonneaud, I Sepil, S. Saatchi, T. B. Smith, and W. Buermann. Spatial predictions of avian parasitic diseases in West Africa
3. H. (Lannie) Ishak*, A. C. Hull, and **R. Sehgal**. Prevalence of blood parasites in migrating California hawks. Journal of Raptor Research.

* denotes Master's student under my direct supervision.

• denotes undergraduate student under my direct supervision.

^o denotes postdoctoral fellow under my direct supervision.

ORAL PRESENTATIONS SINCE 2001:

Invited presentations

- Invited delegate to *Survival in a Changing World* Symposium, Awaji Island, Japan, Aug. 2009.
- Plenary Speaker at World Avian Malaria Meeting, Badajoz Spain, Nov. 2008.
- Vilnius University's Institute of Ecology, Vilnius, Lithuania, Oct. 2007
- Oklahoma State University, Stillwater, OK. Feb. 2007.

- Golden Gate Audubon Society, Berkeley, CA. Feb. 2006.
- University of Missouri, St. Louis, Dept. of Ecology and Evolution, St. Louis, MO. March. 2005
- Stanford University, Dept. of Biology, Ecology and Evolution, Stanford, CA. Feb. 2005
- UC Davis, Dept. of Nematology, Davis, CA, Jan. 2005
- San Francisco State University, Dept. of Biology, San Francisco, CA, Jan. 2005
- Vilnius University, Institute of Ecology, Vilnius, Lithuania, June, 2004
- Cornell University, Lab of Ornithology, April 2004
- UC Berkeley, Museum of Vertebrate Evolution, Berkeley, CA, Oct. 2003
- Vilnius University, Institute of Ecology, Vilnius, Lithuania, May 2003
- Lund University, Dept. of Ecology, Lund, Sweden, May 2003

Presentations at meetings

- Golden Gate Raptor Observatory 25th Anniversary Meeting, SF, CA, Oct. 2009
- American Society of Parasitologists annual meeting, Arlington, TX, June 2008.
- Avian Diseases and Conservation Conference, Pomona, CA, May 2008.
- Northern California Parasitologists meeting, Marshall, CA. March 2008.
- Bay Area Conservation Biology Meeting, Davis, CA, February, 2008.
- Ecology of Infectious Diseases-PI Network Meeting, Albuquerque, Dec. 2007
- Ecology and Evolution of Infectious Diseases, Ithaca, NY, May 2007
- Northern California Parasitologists meeting, Marshall, CA, March 2007
- Ecology of Infectious Diseases-PI Network Meeting, Atlanta, Nov. 2006
- North American Ornithological Conference, Veracruz, Mexico, Oct. 2006
- Society for Conservation Biology, San Jose, CA, June 2006
- Bay Area Conservation Biology Meeting, San Francisco, February, 2006
- Scandinavian-Baltic Society for Parasitology Symposium, Vilnius, Lithuania, May 2005
- Raptor Research Foundation annual meeting, Bakersfield, CA, Nov. 2004
- Cooper Ornithological Society annual meeting, La Crosse, WI, May 2004
- Conservation Genetics meeting, American Genetics Association, Front Royal, VA, Sept. 2003
- Bay Area Conservation Biology meetings, 2002, 2003
- Society for Conservation Biology annual meeting, Canterbury, England, July, 2002
- Ecosystem Health, Washington DC, June 2002
- Society for Conservation Biology annual meeting, Hilo, HI, July 2001

STUDENT PRESENTATIONS 2007-2009

Anthony Chasar: Master's Student

- Oral presentation at Bay Area Conservation Biology Symposium, Jan. 2008, UC Davis.
- Oral presentation at Northern California Parasitologists Annual Meeting, March 2008. Winner of the Walter Carr award for the presentation "Comparison of avian malaria prevalence and sequence data at eight paired sites in Cameroon". Because of this award, Anthony received the Marc Dresden travel grant to the 2008 Annual Society of Parasitologists meeting in Arlington Texas.

Mark Jasper: Master's Student

- Poster presentation at Bay Area Conservation Biology Symposium, Jan. 2008, UC Davis.

- Oral presentation at Northern California Parasitologists Annual Meeting, March 2008.

PhD: Postdoctoral Fellow

- Oral presentation at Northern California Parasitologists Annual Meeting, March 2009.
- Oral presentation at the 10th European Multicolloquium of Parasitology, August. 2008, Paris, France. "Host and habitat specificities of hemosporidian parasites in two African bird species".
- Oral presentation at World Avian Malaria Meeting, Badajoz, Spain, Nov. 2008.

Jenny Carlson: Master's Student

- Oral presentation at Northern California Parasitologists Annual Meeting, March 2009.

Heather Lannie: Master's Student

- Oral presentation at Bay Area Conservation Biology Symposium, Jan. 2007, UC Berkeley.

Ashley Green: Undergraduate Student

- Oral presentation at SFSU Summer Research Symposium, Aug. 2009.

Trevor Coy-Rodriguez: Undergraduate Student

- Oral presentation at SFSU Summer Research Symposium, Aug. 2009.

PROFESSIONAL and CIVIC ACTIVITIES:

2008-present President Northern California Parasitologists.

- Organized the Winter meeting 2008 at SFSU
- Organized the Winter meeting 2009 at UC Berkeley
- Organized the Spring meetings in 2008 and 2009 at the Marconi Conference Center in Marshall, California.

2007-present Member of the Scientific Board: Island Endemics Foundation.

- Involves several meetings each semester
- Attended the Islands of Mexico meeting in Ensenada, Mexico, July, 2009.

2005-present Member of the Editorial Board of the journal Ekologija.

2007-2009 Member of the Editorial Board of The Open Ecology Journal.

I have reviewed 13 manuscripts for Journals since 2007.

ACADEMIC SERVICE:

- Advisor for General Biology
- Member of Dept. of Biology Curriculum Committee 2008-2009
- Member of Dept. of Biology Development Committee 2007-2009
- Judge for COSE annual student presentation showcase 2007, 2009
- Judge for Nelson and Beckman Fellowships, 2009
- SFSU library liaison working with Pam Howard. Compiled list of required and unnecessary journals and acquired new journals. 2007-2008
- Judge for the 22nd annual California State University Research Competition. 2008
- Judge for Biology Department Nelson Fellowships and Hensill and Kuby Scholarships. 2008
- Search Committee for Genetics Faculty Candidate. Fall 2008.

HONORS/AWARDS:

10/27/09

2009 Outstanding Teacher Award, Dept. of Biology, SFSU.
2001-2004 Professors of the Future Training Program Awardee (<http://prof.ucdavis.edu/>)
1999-2001 Research in Minority Institutions, NIH Postdoctoral Training Program Awardee
1998 Full Scholarship to attend NOAHS course: Advances in Conservation Genetics
1988 Graduated Pi Kappa Lamda, Oberlin Conservatory

LANGUAGES:

Fluent in Swedish, German and Lithuanian; Reading ability in French and Spanish

OTHER INTERESTS:

- Tenured Bassoonist with the Berkeley Symphony, under the direction of Joana Carneiro
- Pianist with several chamber music groups in San Francisco
- Fitness Plus swim team at San Francisco State University