

# KATHRYN C. GRABENSTEIN

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## EDUCATION

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- 2016 - 2022      **PhD**    **University of Colorado Boulder**, Ecology & Evolutionary Biology  
Advisor: Dr. Scott A. Taylor
- 2010 - 2014      **B.A.**    **Cornell University**, Biological Sciences (Neurobiology & Behavior), *cum laude*  
Honors Thesis Advisor: Dr. Michael S. Webster

## REFEREED PUBLICATIONS \*Denotes undergraduate mentee

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- 2022            7)    **Grabenstein, K.C.**, Otter, K., Burg, T., & Taylor, S.A. Hybridization between closely related songbirds is related to human habitat disturbance. *Global Change Biology*. *In press*. <https://doi.org/10.1111/gcb.16476>
- 6)    **Grabenstein, K.C.**, Otter, K., Burg, T., & Taylor, S.A. Sympatry leads to lower body condition for two closely related taxa. *Ecology & Evolution*. 12(4), e8756. <https://doi.org/10.1002/ece3.8756>
- 2021            5)    Theodosopoulos, A.N., **Grabenstein, K.C.**, Bensch, S. & Taylor, S.A. A highly invasive malaria parasite has expanded its range to non-migratory birds in North America. *Biology Letters*. 17(9), 20210271. <https://doi.org/10.1098/rsbl.2021.0271>
- 4)    \*Feldmann, K., **Grabenstein, K.C.**, & Taylor, S.A. Achromatic plumage variation between and within closely-related hybridizing chickadees. *The Journal of Field Ornithology*. 92(2), 184-202. <https://doi.org/10.1111/jofo.12368>
- 2019            3)    \*Feldmann, K., Funk, E., **Grabenstein, K.**, Jackson, D., Theodosopoulos, A., Wagner, D. N. and Taylor, S. A. Book Review: The Ascent of Birds. *The Journal of Field Ornithology*. 90(1), 101-102. <https://doi.org/10.1111/jofo.12286>
- 2)    Schroeter, I., Forrester, C., Brigham, L., Fried, E., **Grabenstein, K.**, Karban, C., McDermott, M. Diverging from the Dogma: A Call to Train Creative Thinkers in Science, *Bulletin of the Ecological Society of America*, 100(1) 1-7.
- 2018            1)    **Grabenstein, K.C.** & Taylor, S.A. Breaking barriers: causes, consequences, and experimental utility of human-mediated hybridization. *Trends in Ecology & Evolution*, 33(3), 198-212. <https://doi.org/10.1016/j.tree.2017.12.008>
- In Review*    1)    **Grabenstein, K.C.**, Theodosopoulos, A.N., Provadosuv, V.V., & Taylor, S.A. Disturbance-mediated hybridization leads to extensive local introgression in common backyard birds. *Current Biology*
- In Prep*        1)    **Grabenstein, K.C.**, Kaiser, S.A., Sillett, T.S., and Webster, M.S. No experimental support for resource-dependent offspring sex allocation in a migratory songbird.

## NON-REFEREED PUBLICATIONS

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- 2019            3)    **Grabenstein, K.C.** "The Boulder Chickadee Study: Establishing a long-term research framework." *Colorado Birds*, *Colorado Field Ornithologists Quarterly Publication*. 53.1 Winter, pg 11-20. <https://cobirds.org/colorado-birds-journal/2019-winter/>
- 2014            2)    **Grabenstein, K.C.** "Seven Ways of Looking at a Fairywren: Student Research in Australia." *All About Birds*, 13 Aug. 2014. <https://www.allaboutbirds.org/seven-ways-of-looking-at-a-fairywren-student-research-in-australia/>
- 2012            1)    **Grabenstein, K.C.** "Research News: Can Clark's Nutcrackers help keep white bark pine forests alive?" *Project FeederWatch*, 5 Mar. 2012. <http://feederwatch.org/blog/research-news-can-clarks-nutcrackers-help-keep-whitebark-pine-forests-alive/>

## FELLOWSHIPS AND GRANTS

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### Total Fellowships: \$147,870

2020	<b>Summer Graduate Fellowship</b> , Ecology & Evolutionary Biology, University of Colorado, Boulder	<b>\$8,370</b>
	<b>Figuroa Family Fellowship</b> , Graduate School, University of Colorado, Boulder	<b>\$1,500</b>
2017	<b>Graduate Research Program Fellowship (GRFP)</b> , National Science Foundation	<b>\$138,000</b>

### Total Grants: \$141,651

2022	<b>Graduate Student Travel Grant</b> , Department Ecology & Evolutionary Biology, CU Boulder	<b>\$1,000</b>
	<b>Student Travel Grant</b> , American Ornithological Society	<b>\$530</b>
	<b>Graduate and Professional Student Government Travel Grant</b> , University of Colorado	<b>\$300</b>
2020	<b>Paddon/Gelhorn Grant</b> , Indian Peaks Wilderness Alliance	<b>\$2,000</b>
	<b>NSF INTERN Supplement</b> , National Science Foundation	<b>\$50,220</b>
	<b>Student Research Grant</b> , Department Ecology & Evolutionary Biology, CU Boulder	<b>\$1,700</b>
	<b>Cynthia H. Schultz Graduate Student Grant</b> (awarded to top applicants), Graduate School, University of Colorado, Boulder	<b>\$2,000</b>
2019	<b>Microgrant Outreach Award</b> , Office for Outreach and Engagement, University of Colorado, Boulder	<b>\$1,000</b>
	<b>Undergraduate Research Opportunities Program Team Grant</b> , University of Colorado	<b>\$3,000</b>
	<b>Francis M. Peacock Scholarship</b> , Garden Club of America	<b>\$4,500</b>
	<b>Project Grant</b> , Colorado Field Ornithologist Society	<b>\$1,075</b>
	<b>Education &amp; Conservation Grant</b> , Denver Field Ornithologists	<b>\$1,000</b>
2018	<b>Undergraduate Research Opportunities Program Team Grant</b> , University of Colorado (declined)	<b>\$3,000</b>
	<b>CU RIO Seed Grant</b> , Pls: Dr. Scott Taylor, Dr. Mariana Kassianidou, & Dr. Alexandra Rose, <b>Co-written by Kathryn Grabenstein</b> , Research & Innovation Office, University of Colorado, Boulder	<b>\$49,576</b>
	<b>Hesse Award</b> , American Ornithological Society	<b>\$2,300</b>
	<b>Student Research Grant</b> , Department Ecology & Evolutionary Biology, CU Boulder	<b>\$2,300</b>
	<b>Frank Chapman Memorial Award</b> , American Museum of Natural History	<b>\$2,000</b>
	<b>Beverly Sears Research Grant</b> , Graduate School, University of Colorado, Boulder	<b>\$1,000</b>
	<b>Museum Grant</b> , University of Colorado Museum of Natural History	<b>\$1,000</b>
2017	<b>Rosemary Grant Award</b> , Society for the Study of Evolution	<b>\$2,500</b>
	<b>Research Grant Award</b> , Boulder County Naturalist Association	<b>\$2,100</b>
	<b>Student Research Grant</b> , Department Ecology & Evolutionary Biology	<b>\$2,000</b>
	<b>Graduate Student Research Grant</b> , Society of Systematic Biologists	<b>\$1,300</b>
	<b>Project Grant</b> , Colorado Field Ornithologist Society	<b>\$750</b>
2014	<b>Undergraduate Research Program Award</b> , College of Arts and Sciences, Cornell University	<b>\$500</b>
	<b>Office of Undergraduate Biology Travel Award</b> , Cornell University	<b>\$500</b>
2013	<b>Office of Undergraduate Biology Travel Award</b> , Cornell University	<b>\$500</b>
2012	<b>Redhead Fund Travel Award</b> , Cornell Lab of Ornithology	<b>\$2,000</b>

## HONORS AND AWARDS

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2021	<b>General Council Talk Award</b> , American Ornithological Society	
	<b>Graduate Student Teacher Award</b> , Ecology & Evolutionary Biology Department, University of Colorado-Boulder	
2018	<b>Graduate Student Teacher Award</b> , Ecology & Evolutionary Biology Department, University of Colorado-Boulder	

**Best Graduate 12-minute Talk**, Spring Student Research Symposium, University of Colorado-Boulder

- 2014** **Runner-up in Genesis Award for Outstanding Undergraduate Poster Presentation**, Animal Behavior Society  
**Cynthia Kagarise Sherman Award for Best Undergraduate Thesis in Behavior**, Department of Neurobiology & Behavior, Cornell University  
**Honorable Mention in Knight Prize for Writing in the Majors**, Cornell University  
**Dean's List**, College of Arts and Sciences, Cornell University, Fall 2013, Spring 2014

## INVITED PRESENTATIONS

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- 2022** **Grabenstein, KC**, Theodosopolous, AN, & Taylor, SA. Insights from the Boulder Chickadee Study. *Annual Boulder Chickadee Symposium*, Boulder, CO. April 2022. **Virtual Talk**.  
**Grabenstein, KC**, Theodosopolous, AN, & Taylor, SA. Human-mediated hybridization in common backyard birds. *INSTAAR Colloquium Series*, Boulder, CO, April 2022. **Virtual Talk**.
- 2021** **Grabenstein, KC** & Taylor, SA. The Boulder Chickadee Study: Insights from backyard birds, *Wild Bear Mountain Ecology Center*, Nederland, CO, July 2021, **Virtual Talk**.
- 2019** **Grabenstein, KC** & Taylor, SA. Combining research, teaching, and community science in CU Boulder's Urban Forest. *Tree City USA Quarterly Meeting*, CU Boulder, Boulder, CO, July 2019. **Talk**.  
**Grabenstein, KC** & Taylor, SA. Little Birds, Big Data. *Talks at Google*, Google, Boulder, CO, February 2019. **Talk**.
- 2018** **Grabenstein, KC**, Burg, TM, Otter, KA, and Taylor, SA. Experimental utility of hybridization following human landscape disturbances. *American Ornithological Society*, Tucson, AZ, April 2018. **Talk**.

## PRESENTATIONS \*denotes undergraduate/high school student mentee

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Total of 22 presentations: 10 first author presentations and 12 co-author presentations (including 5 mentee led presentations)

- 2022** **Grabenstein KC**, Burg TM, Otter KA, and Taylor SA. Human mediated hybridization in common backyard birds. *American Ornithological Society*, San Juan, PR. **Talk**.  
Theodosopoulous AN, Chafin TK, **Grabenstein KC**, Rice AM, Weir JT, Pravosudov VV, Taylor SA. Systematics and hybridization in the genus "Poecile" with insights from immune genes. *American Ornithological Society*, San Juan, PR. **Talk**.  
Theodosopoulous AN, Chafin TK, **Grabenstein KC**, Rice AM, Weir JT, Pravosudov VV, Taylor SA. Systematics and hybridization in the genus "Poecile" with insights from immune genes. *Evolution Annual Meeting*. **Talk**.  
\*Carver C, **Grabenstein KC**, Theodosopoulous AN, Taylor SA. The effects of urbanization on chickadee nestling condition. *Denver Field Ornithologists Meeting*, Aurora, CO. **Talk**.
- 2021** **Grabenstein KC**, Burg TM, Otter KA, Taylor SA. Exploring disturbance mediated hybridization in backyard songbirds. *American Ornithological Society*. **Virtual Talk**.  
Theodosopoulous AN, **Grabenstein KC**, Bensch S, Taylor SA. Range expansion of an invasive avian malaria parasite and its potential effects on North American birds. *American Ornithological Society*. **Virtual Talk**.  
**Grabenstein KC**, Burg TM, Otter KA, Taylor SA. Exploring disturbance mediated hybridization in backyard songbirds. *Evolution Annual Meeting*. **Virtual Talk**.
- 2020** **Grabenstein KC**, Burg TM, Otter KA, Taylor SA. Evaluating how human land disturbances influence species barriers at continent-wide and regional scales. *American Society of Naturalists*, Asilomar, CA. **Talk**.  
Theodosopoulous AN, **Grabenstein KC**, Taylor SA (2020) Blood parasite prevalence and effects on two closely related passerines across an urban-rural and elevation gradient. *ESA Annual Meeting*. **Virtual Talk**.
- 2019** **Grabenstein KC**, Burg TM, Otter KA, Taylor SA. Exploring chickadee hybridization in the face of human disturbances. *Joint Evolutionary Biologists Lab Retreat*, Nederland, CO. **Talk**.

Theodosopoulos AN, **Grabenstein KC**, and Taylor SA. Blood parasite infections across an elevational contact zone between chickadees. *ASN Annual Meeting*. **Talk**.

\*Arnold V, **Grabenstein KC**, Theodosopoulos AN, Taylor, SA. Chickadees prefer south-facing nest boxes. *Summer Researcher Poster Session*, UCAR Boulder, CO. Poster.

**Grabenstein KC** & Taylor SA. Understanding species boundaries in Colorado backyard birds. *Front Range Student Ecology Symposium*, Fort Collins, CO. **Talk**.

\*Feldmann KB, **Grabenstein KC**, Funk ER, Taylor, SA. Plumage patterns in chickadees: quantifying plumage variation between and within *Poecile atricapillus* and *Poecile gambeli*. *Front Range Student Ecology Symposium*, Colorado State University, Fort Collins, CO. Poster.

**2018** Brackett A, Frankel-Goldwater L, **Grabenstein KC**, Nocito E, Roberts V. Bolstering the front lines: Empowering educators to make excellence inclusive. *The University of Colorado Diversity Summit*, Boulder, CO. **Workshop**.

\*Rose K, \*Pineda A, **Grabenstein KC**, Hansen AN, Taylor, SA. Chickadees hybridizing in Boulder County, *CU Science Discovery & Nature Kids Lafayette Research Experience Symposium*. Poster.

\*Rose K, \*Pineda A, **Grabenstein KC**, Hansen AN, Taylor, SA. Chickadees in Boulder County, *CU Science Discovery & Nature Kids Lafayette Research Experience Symposium*. Poster.

**2017** **Grabenstein KC**, Burg TM, Otter KA, Taylor SA. Experimental utility of hybridization following human landscape disturbances. *Spring Student Research Symposium*, Boulder, CO, **Talk**.  
**Grabenstein KC** and Taylor SA. Breaking barriers: anthropogenic hybridization in disturbed habitats. *Guild of Rocky Mountain Ecology and Evolutionary Biologists Society*, Nederland CO, **Talk**.

**2014** **Grabenstein KC**, Kaiser SA, Webster MS. No experimental support for resource-dependent sex allocation in a migratory songbird, *The 51st Annual Conference of the Animal Behavior Society*, Princeton, NJ August 2014, Poster.

**Grabenstein KC**, Kaiser SA, Webster MS. No experimental support for resource-dependent offspring sex allocation in a migratory songbird. *Neurobiology & Behavior Thesis Symposium*, Cornell University, May 2014, Poster.

**2013** O'Toole KE, **Grabenstein KC**, Hinton MG, Swaddle JP, Karubian J, Webster MS. Post-fire vegetation structure and food availability may impact habitat preference for a tropical passerine. *Annual Meeting of the Wilson's Ornithological Society*, The College of William & Mary. Poster.

## TEACHING EXPERIENCE AND TRAINING

**Ornithology**, Graduate Teaching Assistant, CU Boulder **Jan 2021-May 2021**

**Ornithology**, Graduate Teaching Assistant, CU Boulder **Jan 2018-May 2018**  
Designed laboratory component of new Ornithology course: Using inclusive pedagogy techniques, created weekly labs and wrote laboratory manual. Collected pre- and post-survey data to improve course in future iterations.

**Animal Behavior**, Graduate Teaching Assistant, CU Boulder **Aug 2017-Dec 2017**

**General Biology I and II**, Graduate Teaching Assistant, CU Boulder **Aug 2016-May 2017**

### Invited Guest Lectures:

Life History & Timing of Breeding, Ornithology, 2018

## MENTORING

**2019-2020**: Organized & led 1) weekly roundtable and 2) weekly scientific writing seminar for Lab undergraduates (n = 5)

**Fall 2017**: Organized & led weekly undergraduate pedagogy seminar for undergraduate TAs (n = 6)

### Direct Mentor for Honors Thesis Students (n = 2)

**2022** **Cori Carver**, CU Boulder Undergraduate, *summa cum laude*  
*Chickadees Appear to Thrive on Urban Diets in Boulder Backyards*

**C. Carver Total Funding: \$9,850**

Biological Sciences Initiative - \$2,500

Denver Field Ornithologists Research Grant - \$1,350

Colorado Field Ornithologists Research Grant - \$1,500

Alexander and Verderber Undergraduate Research Grant - \$1,500

Undergraduate Research Opportunities Program Individual Grant - \$3,000

**2020****Katherine Feldmann**, CU Boulder Undergraduate, *summa cum laude*

*Achromatic plumage is morphologically distinct between sexually monochromatic chickadees*

Associated publication: <https://doi.org/10.1111/jof.12368>

**K. Feldmann Total Funding: \$15,567**

NSF Research Experience for Undergraduates Fellowship - \$7,067

Undergraduate Research Opportunities Program – Individual Grant - \$3,000

Marion and Gordon Alexander Memorial Fellowship Award - \$1,500

Biological Sciences Initiative Scholars Program - \$2,500

Undergraduate Research Opportunities Program – \$1,500

**Direct Mentor for Independent Study Students (n = 6):**

**2022:** Olivia Taylor, CU Boulder Undergraduate

**2020 - 2021:** Harriet Leeson, CU Boulder Undergraduate

**Spring 2019:** Rachael Merkt, CU Boulder Undergraduate

**Fall 2018:** Torrey Davis, CU Boulder Undergraduate

**Summer 2018:** Heather Rose & Alex Pineda, Centaurus High School Students, CU Science Discovery & Nature Kids/ Jóvenes de la Naturaleza Lafayette

**SERVICE**

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**Graduate Student Space Committee, 2017-2018**

Created new graduate workspace, managed graduate student departmental library, organized space reservation & maintenance logistics

**Graduate Orientation Improvement Committee, 2017****Diversity & Inclusion Seminar Member, 2016-2021**

Member of grassroots Diversity & Inclusion group that seeks to modify departmental culture and operations to become more inclusive and diverse. Yearly outcomes:

**2016-2017:** Researched and co-wrote Departmental amendment to remove GRE as requirement for acceptance into EBIO graduate program.

**2018:** Removal of GRE requirement implemented in Fall 2018. Overhauled website design & content to better highlight Department's commitment to DEIJB efforts. Co-wrote 20-pg Inclusive Excellence Plan: specific, long-term departmental plan with actionable items to increase diversity, equity, and inclusion within EBIO at the undergraduate, graduate, & faculty/staff level.

**2019:** Inclusive Excellence Plan voted on and adopted by Faculty. Researched & developed Best Hiring Practices document for EBIO faculty hiring.

**2020:** Researched & developed Field Safety Plan for EBIO and Taylor Lab. For EBIO: purchased field vests for EBIO members to check out. For Taylor Lab: Purchased car magnets for field vehicles and developed Field Safety Plans for students doing field work.

**CU Boulder Natural History Museum Collection Contributor, 2016 - 2022**

Worked with museum curators to utilize collections for research projects and teaching (Ornithology) and donated numerous specimens (adults, nests, eggs, & chicks) from field work to museum collection to support collection-based science.

**OUTREACH**

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**2022**

**Consultant for high school curriculum development**, Institute of Cognitive Science, University of Colorado Boulder, August 2022

Contributed original research and discussed main takeaways with InquiryHub director to create Nation-wide, NSF-funded high school curriculum.

**Consultant for graduate student Capstone Project**, Environmental Sciences Department, University of Colorado, Boulder, May 2022

Worked with three master's students to develop land stewardship plan for newly acquired easement in Boulder, CO.

**2020 Nest Box building Workshop**, Cal-wood Education Center, Jamestown, CO, March 2020  
Day long nest building workshop with 50+ middle school children from greater Denver Area.

**Boulder Watershed Exhibit**, Museum of Boulder, Boulder, CO January 2020  
Contributed invited materials to the Museum of Boulder's Exhibit

**2019 CU Science Café**, CU Science Discovery, November 2019  
Nominated by CU Science Discovery group to lead in 2 hr event with 10 high school students

**NSF GRFP Panel Participant**, Graduate School, CU Boulder, September 2019  
Served as invited panelist during Q&A session led by Graduate School for GRFP preparation

**Boulder Chickadee Study End-of-Season Symposium**, Boulder, CO, October 2019  
Garnered funding, planned, advertised, and executed 3 hour symposium to connect current & future Boulder Chickadee Study participants with senior, graduate, and undergraduate researchers and to discuss research findings.

**Genomics Exhibit, CU Natural History Museum**, Boulder, CO, September 2019  
Contributed materials to CU Boulder's Natural History Museum Exhibit

**Nature Camp Research Instructor**, Wild Bear Mountain Ecology Center, Nederland, CO, July 2019  
Developed research activities, led bird banding demonstration, and implemented full-day camp for 11 students, age ranges 8-15 yr old.

**Nest Box Building Workshop**, Dharma's Garden, May 2019  
Led day long nest box building workshop for community garden

**Citizen Science Day**, CU Science Discovery & Boulder Public Library, April 2019  
Invited to prepare exhibit on Community Science Projects for the Boulder public

**Nest Box Building Workshop**, Dharma's Garden, March 2019  
Led day long nest box building workshop for community garden

**2018 Nature Walk Biologist**, Americas for Conservation and the Arts, Evergreen, CO, September 2018  
Participated as bird biologist on nature walk focused on connecting ~20 Latinx families with local Colorado biodiversity

**Science Camp Research Instructor**, CU Science Discovery Mountain Research Experience, Boulder, CO, July 2018

Led bird banding demonstration and guided bird walk for 4 high school students funded through Jóvenes de la Naturaleza Lafayette that serves a predominantly latinx population.

**Nature Camp Research Instructor**, Wild Bear Mountain Ecology Center, Nederland, CO, July 2018  
Developed research activities, led bird banding demonstration, and implemented full-day camp for 11 students, age ranges 8-15 yr old.

**Invited Keynote Speaker**, Inaugural CU Boulder Nerd Night, Boulder, CO, February 2018  
Delivered keynote address for first ever Boulder Nerd Night to 50+ audience members

**Graduate Student Panel Member**, Undergraduate Research Expo, University of Colorado-Boulder, SASC (Student Academic Success Center), March 2018 for 100+ undergraduates from underserved groups

**Graduate Mentor for Teacher Professional Development Workshop**, Biological Sciences Initiative, CU Boulder, July 2018

Developed film, workshop, and associated curriculum featuring dissertation research for 20 middle school & high school teachers in Boulder County. Anticipated reach is 960 Boulder County K-12 students, July 2018

**2014 Middle School Classroom Presentations**, Migration in North America, Ithaca, New York and Oak Ridge, Tennessee, 2014

**Educational YouTube Bird Migration Video**, Wrote and narrated informational video, **viewed 190,000+ times on YouTube**, Ithaca, NY 2014.

## QUANTITATIVE SKILLS

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**Coding Language & Program Proficiency:** R, SQL, Linux/Unix environment, Python, Git & ArcGIS

**Computational Proficiency:** Big Data curation & manipulation, multivariate statistical analyses, data visualization, & bioinformatics

## PROFESSIONAL EXPERIENCE

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**Intern,** Embark Veterinary, Inc.

**Aug 2020 - Jan 2021**

Secured NSF funding to complete an internship at fast-growing canine genomics company where I developed a canine paternity test for dog breeders to resolve breed pedigrees using whole-genome methods, which improved accuracy of microsatellite-based paternity tests by 60%.

**Intern,** Climate Change Science Institute, Oak Ridge National Laboratory

**Aug 2014 - May 2015**

Combined large vegetation phenology datasets from satellites and 605 on-the-ground observational sources using R & SQL to 1) resolve space and time limitation trade-offs and 2) refine resolution of remote sensing sources, resulting in a 200% improvement (from 2km to 500m pixels) in imaging tools for future research.

**Field Biologist,** Southern Sierra Research Station

**Jun 2014 - Aug 2014**

Monitored breeding population of Yellow-billed Cuckoos using radio telemetry, nest searching/monitoring, behavioral observations, point count surveys, canopy mist netting, and data analysis with ArcGIS.

**Undergraduate Research Assistant,** Fuller Evolutionary Lab

**Jan 2011 - May 2014**

Conducted 1000+ genetic analyses to sex individuals and assign paternity using DNA extraction & PCR. This work generated nestling paternity data for graduate students assessing breeding success in their study populations.

**Student Liaison/Fellow,** NSF International Research Experience for Students (IRES)

**Jan 2012 - Dec 2013**

Developed independent project during 8-week field component in Northern Territory, Australia using active mist netting, color band re-sighting, banding, jugular/brachial bleeding, hormone assays, point counts, survey transects, vegetation surveys, song analysis in Raven software, data entry, and data management. *Invited to return as Student Liaison in second year to assist with logistics of running IRES program (i.e., trip planning, data management, mentoring student projects).*

**Undergraduate Field Researcher,** Webster Lab

**Dec 2010 - Jan 2011**

Performed behavioral observations on color banded population of Red-backed Fairy wrens in Brisbane, Australia to explore potential behavioral differences between sexually manipulated and control males