

# Nancy Chen

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## EDUCATION

- Ph.D.** Department of Ecology and Evolutionary Biology, Cornell University Aug 2014  
Advisors: Dr. Andrew G. Clark & Dr. John W. Fitzpatrick
- A.B.** Biochemical Sciences, *magna cum laude*, Harvard University June 2007  
Advisor: Dr. Scott V. Edwards

## APPOINTMENTS

- NSF Postdoctoral Fellow (Biological Collections)**, UC Davis Aug 2015 - present  
Advisor: Dr. Graham Coop
- Lab Associate**, Cornell Lab of Ornithology Aug 2015 - present
- Research Affiliate**, Archbold Biological Station Sept 2015 - present
- Postdoctoral Research Associate**, Cornell Lab of Ornithology Aug 2014 - Aug 2015  
Advisors: Dr. Andrew G. Clark & Dr. John W. Fitzpatrick

## PUBLICATIONS

8. Aguillon SM\*, Fitzpatrick JW, Bowman R, Schoech SJ, Clark AG, Coop GM, **Chen N**. 2017. Deconstructing isolation-by-distance: The genomic consequences of limited dispersal. *PLOS Genetics* 13(8): e1006911.\*\*
7. Bellott DW, Skaletsky H, Cho T-J, Brown L, Locke D, **Chen N**, Galkina S, Pyntikova T, Koutseva N, Graves T, Kremitzki C, Warren WC, Clark AG, Gaginskaya E, Wilson RK, Page DC. 2017. Avian W and mammalian Y chromosomes convergently retained dosage sensitive regulators. *Nature Genetics* 49: 387-394.
6. **Chen N**, Cosgrove EG, Bowman R, Fitzpatrick JW, Clark AG. 2016. Genomic consequences of population decline in the Endangered Florida Scrub-Jay. *Current Biology* 26: 2974-2979.
5. Kaiser SA, Taylor SA, **Chen N**, Sillett TS, Bondra ER, Webster MS. 2016. A comparative assessment of SNP and microsatellite markers for assigning parentage in a socially monogamous bird. *Molecular Ecology Resources*. doi:10.1111/1755-0998.12589.
4. **Chen N**, Van Hout CV, Gottipati S, Clark AG. 2014. Using Mendelian inheritance to improve high throughput SNP discovery. *Genetics* 198: 847-857.
3. **Chen N**, Bellott DW, Page DC, Clark AG. 2012. Identification of avian W-linked contigs by short-read sequencing. *BMC Genomics* 13: 183.
2. Canfield MR, Greene E, Moreau CS, **Chen N**, Pierce NE. 2008. Exploring phenotypic plasticity in emerald moths: a phylogeny of the genus *Nemoria* (Lepidoptera: Geometridae). *Molecular Phylogenetics and Evolution* 49: 477-487.
1. **Chen N**, Gascoin F, Muller E, Karpinski G, Stiewe C, Snyder GJ. 2005. Macroscopic thermoelectric inhomogeneities of (AgSbTe<sub>2</sub>)<sub>x</sub>(PbTe)<sub>1-x</sub>. *Applied Physics Letters* 87: 171903.

\*Indicates author was a graduate advisee

\*\*Featured in The Molecular Ecologist (<https://t.co/KfX6Geifkd>) & PLOS Biologue (<https://t.co/3DU0nbgJbP>). Recommended by the Faculty of 1000

## GRANTS

DeLill Nasser Travel Award for Professional Development in Genetics: \$1,000	2017
Dovetail Genomics Matching Funds Award: \$6,775	2017
XSEDE Startup Request: \$2,762	2017
NAOC Postdoc Travel Award: \$200	2016
NSF, Genome-wide dynamics of neutral and fitness-related variation in a pedigreed population of Florida Scrub-Jays undergoing regional decline: \$737,830*	2013-2015
Cornell Center for Vertebrate Genomics Travel Award: (2x) \$1,250	2012, 2015
SMBE Graduate Student Travel Award: \$1,500	2014
Cornell Graduate School Conference Travel Grant: (4x) \$1,785	2010-2013
XSEDE Supercomputing Research Allocation: 355,500 SUs	2012
Cornell Lab of Ornithology Athena Fund: (2x) \$32,000	2010-2011
Cornell Lab of Ornithology Research Fund: \$2,000	2011
Ecology & Evolutionary Biology Graduate Student Research Fund: (4x) \$2,532	2008-2011
International Ornithological Congress Travel Award: \$500	2010
Cornell Graduate School Research Travel Grant: \$1,370	2010
Andrew Mellon Student Research Grant: \$1,500	2010
Cornell Center for Vertebrate Genomics Seed Grant: \$11,700	2009
NSF SGER, Episodic disease and host population dynamics: Immediate response to an emerging epidemic in a well-studied organism: \$50,000**	2008-2009
Joseph Grinnell Student Research Award: \$1,000	2008
Cornell Sigma Xi Research Award: \$800	2008
Orenstein Endowment Fund: \$600	2008
AMNH Frank M. Chapman Memorial Grant: \$2,000	2008
MCZ Grants-in-aid of Undergraduate Research: \$2,400	2006

\*For the NSF proposal, I designed the experiments and wrote >95% of the proposal as a graduate student.

\*\*The SGER (Small Grant for Exploratory Research) grant was co-written by a postdoc & me.

## FELLOWSHIPS & AWARDS

American Ornithological Society James G. Cooper Young Professional Award	2017
NSF Postdoctoral Research Fellowship in Biology (Biological Collections)	2015
Cornell Center for Comparative & Population Genomics Fellowship	2012
Cornell Presidential Life Sciences Fellowship	2007
NSF Graduate Research Fellowship	2007
NSF Undergraduate Diversity at the Society for the Study of Evolution Award	2007
Blumberg Creative Science Award	2007
AmeriCorps Education Award	2007
National Aeronautics and Space Administration Tech Brief Award	2006
Certificate of Distinction in Teaching - Harvard Bok Center for Teaching & Learning	2005

## PRESENTATIONS

### Invited Seminars

Biology Department, University of San Francisco	2018
Museum of Vertebrate Zoology, University of California, Berkeley	2017
Department of Biological Sciences, Humboldt State University	2017
Department of Biology, University of Rochester	2017
Department of Biology, University of Central Florida	2016
Center for Population Biology, University of California, Davis	2015
Department of Biology, University of Rochester	2014

Department of Biological Sciences, Binghamton University	2014
EvoGroup, Cornell University	2014
Cornell Lab of Ornithology, Cornell University	2009, 2010
Genetics & Development Field, Cornell University	2009

### Invited Conference Presentations

American Ornithological Society Conference	2017
Genetics of Migration Symposium	2017
Principals of Population Genetics Conference	2014
V North American Ornithological Conference	2012

### Contributed Conference Presentations

American Ornithological Society Conference	2018
Bay Area Population Genetics Conference	2017
NSF Postdoctoral Fellowships in Biological Collections Symposium (poster)	2017
Wild Animal Model Biennial Meeting	2017
Society for the Study of Evolution	2007, 2015-2017
North American Ornithological Conference	2016
Biology of Genomes Conference*	2016
Gordon Research Conference on Ecological & Evolutionary Genomics (poster)	2011, 2013, 2015
Society for Molecular Biology & Evolution (poster)	2013-2014
First Joint Congress on Evolutionary Biology	2012
Cornell Ecology & Evolutionary Biology Research Symposium	2010, 2012
International Ornithological Congress	2010
American Ornithologists' Union	2009
Cornell Center for Vertebrate Genomics Symposium (poster)	2009

\*Featured in Science (<http://www.sciencemag.org/news/2016/05/study-spots-evolution-action-florida-bird>)

## TEACHING EXPERIENCE

### Instructor

Quantitative Genetics, <i>Genetics of Migration Symposium Workshop</i>	2017
Genetics of Adaptation seminar (BioMG1250), <i>Cornell University</i>	2014
Population Genomics for Nonmodel Taxa, <i>American Genetics Association Workshop</i>	2013
Writing in the Majors, Evolutionary Biology & Diversity (BioEE1780), <i>Cornell University</i>	2012

### Guest Lecturer

Human Genomics (BioMG4870), <i>Cornell University</i>	2014
Seminar in Research Skills for Biologists (BioG3010), <i>Cornell University</i>	2011

### Teaching Assistant

Evolutionary Biology & Diversity (BioEE1780), <i>Cornell University</i>	2009
Linear Algebra & Differential Equations (Math 21b), <i>Harvard University</i>	2006-2007
Mathematical Modeling (Math 19), <i>Harvard University</i>	2004-2006
Multivariable Calculus (Math 21a), <i>Harvard University</i>	2005

## MENTORING EXPERIENCE

Stephanie Aguilon, <i>Ph.D. rotation student, Cornell University</i>	2014-2017
Henry Kunerth, <i>Ph.D. rotation student, Cornell University</i>	2015-2017
Siwei Chen, <i>Ph.D. rotation student, Cornell University</i>	2015
Jennifer Diamond, <i>Undergraduate, UC Davis</i>	2017
Ishaan Jhaveri, <i>Undergraduate, Cornell University</i>	2015-2017
Huijie Feng, <i>Undergraduate, Cornell University</i>	2015-2016
Ashish Akshat, <i>Undergraduate, Cornell University</i>	2015-2016
Sarah Kimball, <i>Undergraduate, Cornell University</i>	2014-2015
Alex Gileta, <i>Undergraduate, Cornell University</i>	2010

## SERVICE & OUTREACH

<i>Member, American Ornithological Society Diversity &amp; Inclusion Committee</i>	2017-present
<i>Organizing committee, Women in Life sciences at Davis</i>	2015-present
<i>Member, American Ornithological Society Early Professionals Committee</i>	2014-present
<i>Co-organizer, "Making Science More Inclusive: Identity, Mentoring, and a Game of Cards"</i> <i>Workshop at American Ornithological Society Conference</i>	2018
<i>Member, American Ornithological Society 2018 Scientific Program Committee</i>	2018
<i>Judge, American Ornithological Society Student Presentation Awards</i>	2016-2018
<i>Panelist, National Science Foundation</i>	2017
<i>Co-organizer, "Birds of different feathers: Increasing diversity in ornithology" Symposium</i> <i>at American Ornithological Society Conference</i>	2017
<i>Reviewer, Graduate Women in Science Fellowships</i>	2017
<i>Guest speaker, Slightly Evolved Podcast</i> ( <a href="https://soundcloud.com/slightlyevolvedpod/episode-6">https://soundcloud.com/slightlyevolvedpod/episode-6</a> )	2017
<i>Workshop instructor, Pioneer High School Outreach Program</i>	2015
<i>Organizational Chair, Expanding Your Horizons</i> (math & science outreach program for middle school girls)	2009-2015
<i>Workshop leader, Expanding Your Horizons</i>	2013-2015
<i>Reviewer, Cornell Sigma Xi Grant Awards</i>	2011-2015
<i>Science translator, Cornell Lab of Ornithology Multimedia &amp; Education</i> ( <a href="https://youtu.be/zlqg8WQaizE">https://youtu.be/zlqg8WQaizE</a> )	2014
<i>Instructor, Vestal High School, Graduate Student School Outreach Program</i>	2014
<i>Chair, Cornell EEB Graduate Student Recruitment Weekend Committee</i>	2007-2014
<i>Summer Program Director, Undergraduate Biology Research Fellowship</i> (NSF-funded program to promote diversity in the scientific research)	2011-2013
<i>Blogger, Frontiers in the Life Sciences Symposium</i>	2012
<i>Mentor, St. Mark Catholic School science fair projects</i>	2011
<i>Mentor, Expanding Your Horizons</i>	2008
<i>Reviewer: BMC Genomics, Current Biology, Evolution, Evolutionary Applications, Molecular Ecology, PeerJ, Proceedings of the National Academy of Sciences, Royal Society Open Science</i>	

## PROFESSIONAL DEVELOPMENT

<i>Building Mentoring Skills for an Academic Career Workshop,</i> <i>Cornell Center for the Integration of Research, Teaching, &amp; Learning</i>	2015
<i>Science Communication Workshop, Cornell University</i>	2011
<i>Revolutionary Sequencing Technologies &amp; Applications, Cold Spring Harbor Laboratory</i>	2008

## PROFESSIONAL MEMBERSHIPS

Society for Molecular Biology & Evolution  
Society for the Study of Evolution

American Society of Naturalists  
American Ornithological Society  
Genetics Society of America