

NANCY CHEN

Center for Population Biology & Department of Evolution & Ecology
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EDUCATION

- 2014 Ph.D., Ecology & Evolutionary Biology, Cornell University, Ithaca, NY
Advisors: Dr. Andrew G. Clark & Dr. John W. Fitzpatrick
- 2007 A.B., Biochemical Sciences, *magna cum laude*, Harvard University, Cambridge, MA
Advisor: Dr. Scott V. Edwards

APPOINTMENTS

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

PEER-REVIEWED PUBLICATIONS

- Chen N**, Cosgrove EG, Bowman R, Fitzpatrick JW, Clark AG. 2016. Genomic consequences of population decline in the Endangered Florida Scrub-Jay. *Current Biology*.
<http://dx.doi.org/10.1016/j.cub.2016.08.062>
- 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.
- Chen N**, Van Hout CV, Gottipati S, Clark AG. 2014. Using Mendelian inheritance to improve high throughput SNP discovery. *Genetics* **198**: 847-857.
- Chen N**, Bellott DW, Page DC, Clark AG. 2012. Identification of avian W-linked contigs by short-read sequencing. *BMC Genomics* **13**: 183.
- 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.

Chen N, Gascoin F, Muller E, Karpinski G, Stiewe C, Snyder GJ. 2005. Macroscopic thermoelectric inhomogeneities of $(\text{AgSbTe}_2)_x(\text{PbTe})_{1-x}$. *Applied Physics Letters* **87**: 171903.

MANUSCRIPTS IN REVIEW/PREPARATION

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. Avian W and mammalian Y chromosomes convergently retained dosage sensitive regulators. *Submitted*.

Aguillon SM*, Fitzpatrick JW, Bowman R, Schoech SJ, Clark AG, Coop GM, **Chen N**. Genomic consequences of limited, sex-biased dispersal. *In prep*. Manuscript available upon request.

*Indicates author was a graduate advisee

GRANTS

2013-2015	NSF, Genome-wide dynamics of neutral and fitness-related variation in a pedigreed population of Florida Scrub-Jays undergoing regional decline \$737,830*
2012, 2015	Cornell Center for Vertebrate Genomics Travel Award: (2x) \$1,250
2014	SMBE Graduate Student Travel Award: \$1,500
2010-2013	Cornell Graduate School Conference Travel Grant: (4x) \$1,785
2012	XSEDE Supercomputing Research Allocation: 355,500 SUs
2010-2011	Cornell Lab of Ornithology Athena Fund: (2x) \$32,000
2011	Cornell Lab of Ornithology Research Fund: \$2,000
2008-2011	Ecology & Evolutionary Biology Graduate Student Research Fund: (4x) \$2,532
2010	International Ornithological Congress Travel Award: \$500
2010	Cornell Graduate School Research Travel Grant: \$1,370
2010	Andrew Mellon Student Research Grant: \$1,500
2009	Cornell Center for Vertebrate Genomics Seed Grant: \$11,700
2008-2009	NSF SGER, Episodic disease and host population dynamics: Immediate response to an emerging epidemic in a well-studied organism: \$50,000*
2008	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
2006	MCZ Grants-in-aid of Undergraduate Research: \$2,400

*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

2015 NSF Postdoctoral Research Fellowship in Biology (Biological Collections)

- 2012 Cornell Center for Comparative & Population Genomics Fellowship
- 2007 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
- 2006 National Aeronautics and Space Administration Tech Brief Award
- 2005 Certificate of Distinction in Teaching – Harvard Bok Center for Teaching & Learning

INVITED PRESENTATIONS

- 2016 Department of Biology, University of Central Florida, Orlando, FL
- 2015 Center for Population Biology, University of California, Davis, Davis, CA
- 2014 Department of Biology, University of Rochester, Rochester, NY
- 2014 Department of Biological Sciences, Binghamton University, Binghamton, NY
- 2014 Principals of Population Genetics Conference, Ithaca, NY
- 2012 V North American Ornithological Conference, Vancouver, Canada

CONTRIBUTED PRESENTATIONS

- 2016 North American Ornithological Conference
- 2016 Society for the Study of Evolution
- 2016 Biology of Genomes Conference*
- 2015 Society for the Study of Evolution
- 2015 Gordon Research Conference on Ecological & Evolutionary Genomics (poster)
- 2014 Society for Molecular Biology & Evolution (poster)
- 2014 Cornell EvoGroup seminar
- 2013 Gordon Research Conference on Ecological & Evolutionary Genomics (poster)
- 2013 Society for Molecular Biology & Evolution (poster)
- 2012 First Joint Congress on Evolutionary Biology
- 2012 Cornell Ecology & Evolutionary Biology Research Symposium
- 2011 Gordon Research Conference on Ecological & Evolutionary Genomics (poster)
- 2010 Cornell Lab of Ornithology Seminar
- 2010 International Ornithological Congress
- 2010 Cornell Ecology & Evolutionary Biology Research Symposium
- 2009 Cornell Lab of Ornithology Seminar
- 2009 Cornell Genetics & Development Field Seminar
- 2009 American Ornithologists' Union, Philadelphia, PA.
- 2009 Cornell Center for Vertebrate Genomics Symposium (poster)
- 2007 Society for the Study of Evolution

*My talk was featured in *Science*: <http://www.sciencemag.org/news/2016/05/study-spots-evolution-action-florida-bird>

TEACHING EXPERIENCE

- 2014 *Guest lecturer*, Human Genomics (BioMG4870), Cornell University
- 2014 *Instructor*, Genetics of Adaptation seminar (BioMG1250), Cornell University
- 2013 *Instructor*, Population Genomics for Nonmodel Taxa, American Genetics Association workshop
- 2012 *Instructor*, Writing in the Majors, Evolutionary Biology & Diversity (BioEE1780), Cornell University
- 2011 *Guest lecturer*, Seminar in Research Skills for Biologists (BioG3010), Cornell University
- 2009 *Teaching Assistant*, Evolutionary Biology & Diversity (BioEE1780), Cornell University
- 2004-2007 *Course Assistant*, Mathematical Modeling (Math 19), Harvard University
Course Assistant, Multivariable Calculus (Math 21a), Harvard University
Course Assistant, Linear Algebra & Differential Equations (Math 21b), Harvard University

MENTORING EXPERIENCE

First year Ph.D. rotation students: Stephanie Aguilon (2014-current), Siwei Chen (2015), Henry Kunerth (2015-current)

Undergraduate students: Alex Gileta (2010), Sarah Kimball (2014-2015), Ashish Akshat (2015-current), Huijie Feng (2015-current), Ishaan Jhaveri (2015-current), Megan Wallace (2015)

SERVICE & OUTREACH

- Reviewer: *Proceedings of the National Academy of Sciences, Evolution*
- 2015-current *Planning team*, UC Davis Women in Science discussion group
- 2014-current *Member*, Early Professionals Committee of the American Ornithologist's Union
- 2015 *Workshop instructor*, Pioneer High School Outreach Program
- 2009-2015 *Organizational Chair*, Expanding Your Horizons (math & science outreach program for middle school girls)
- 2013-2015 *Workshop leader*, Expanding Your Horizons
- 2011-2015 *Reviewer*, Cornell Sigma Xi Grant Awards
- 2014 *Science translator*, Cornell Lab of Ornithology Multimedia & Education (<https://youtu.be/zlqq8WQaizE>)
- 2014 *Instructor*, Vestal High School, Graduate Student School Outreach Program
- 2007-2014 *Chair*, Department of Ecology & Evolutionary Biology Graduate Student Recruitment Weekend Committee
- 2011-2013 *Summer Program Director*, Undergraduate Biology Research Fellowship (NSF-funded program to promote diversity in the scientific research)
- 2012 *Volunteer blogger*, Frontiers in the Life Sciences Symposium
- 2011 *Mentor*, St. Mark Catholic School science fair projects

2008 *Mentor*, Expanding Your Horizons

2008 *Volunteer*, International Society for Behavioral Ecology meeting

PROFESSIONAL MEMBERSHIPS

Society for Molecular Biology & Evolution

Society for the Study of Evolution

American Ornithologists' Union

Genetics Society of America

Sigma Xi