



**Erik C. Andersen**

**Assistant Professor**  
**Northwestern University**  
Department of Molecular Biosciences

2205 Tech Drive  
Evanston, IL 60208-3500  
Office: 847-467-4382  
Lab: 847-467-4264  
Fax: 847-491-4461  
erik.andersen@northwestern.edu  
[www.andersenlab.org](http://www.andersenlab.org)  
[www.elegansvariation.org](http://www.elegansvariation.org)



@ecandersen



ORCID

0000-0003-0229-9651



**DATE UPDATED: March 14, 2019**

### **MAJOR PROFESSIONAL INTERESTS**

Evolutionary genetics; quantitative genetics; molecular genetics; developmental genetics

### **EDUCATION**

- 1996-2000 B.S. in Biological Sciences with departmental honors  
Stanford University, Stanford, CA  
Advisor: Dr. Matthew P. Scott  
Dissertation: *in vivo* analysis of *Drosophila* heart-tube formation
- 2000-2008 Ph.D. in Biology  
Massachusetts Institute of Technology (MIT), Cambridge, MA  
Advisor: Dr. H. Robert Horvitz  
Dissertation: The synthetic Multivulva genes and their suppressors regulate opposing cell fates through chromatin remodeling
- 2008-2013 Post-doctoral fellowship  
Princeton University  
Advisor: Dr. Leonid Kruglyak

### **AWARDS, HONORS, AND FELLOWSHIPS**

- 1996-1998 Robert C. Byrd Honors Scholarship recipient
- 1998 Stanford University Undergraduate research small grant recipient
- 1999, 1998 Howard Hughes Medical Institute Summer Research Fellowship
- 2000 Firestone Medal for Excellence in Undergrad. Research (top Biological Sciences researcher)
- 2005 - 2006 Anna Fuller Cancer Graduate Research Fellowship
- 2009 - 2011 Ruth L. Kirschstein National Research Service Award Recipient
- 2011 - 2012 National Cancer Institute Post-doctoral Fellow, training grant T32-CA009528
- 2012 - 2013 Howard Hughes Medical Institute Post-doctoral Fellow
- 2014 - 2018 Pew Scholar in the Biomedical Sciences
- 2015 - Editorial Board Member of *Trends in Genetics*
- 2015 - 2017 March of Dimes Basil O'Connor Research Scholar
- 2015 - 2019 American Cancer Society Research Scholar
- 2017 - Associate Editor for *BMC Genomics*
- 2018 - 2023 National Science Foundation CAREER Award Recipient

**EMPLOYMENT**

- 2013 - Assistant Professor of Molecular Biosciences, Northwestern University  
 Preceptor for the Interdisciplinary Biological Sciences Graduate Program (IBiS)  
 Full Member of the Robert H. Lurie Comprehensive Cancer Center  
 Member of the Chemistry of Life Processes Institute (CLP)  
 Member of Northwestern Institute on Complex Systems (NICO)
- 2008 - 2013 Post-doctoral fellow, Princeton University, Princeton, NJ, Advisor: Dr. Leonid Kruglyak
- 2000 - 2008 Graduate student, Biology Department at Massachusetts Institute of Technology (MIT),  
 Cambridge, MA, Advisor: Dr. H. Robert Horvitz

**RESEARCH SUPPORT****PRESENT**

- 2018 - 2023 National Institutes of Health (R01 ES029930) - NIEHS  
*Discovery of conserved molecular mechanisms underlying population-wide variation in toxin responses*  
 Lead PI: Erik Andersen, co-PIs: Baugh (Duke), Rockman (NYU)
- 2018 - 2023 National Science Foundation  
 CAREER Award (1751035)  
*Discovery of the molecular mechanisms underlying microevolution of phenotypic plasticity in a developmental trait*  
 PI - Andersen
- 2018 - 2022 National Institutes of Health (U2C OD026506) - NIEHS  
*Genetics and quantum chemistry as tools for unknown metabolite identification*  
 Lead PI: Dr. Art Edison (UGA), co-PIs Andersen, Fernandez (Georgia Tech), McIntyre (U of Florida), Merz (Missouri State), Schroeder (Cornell)
- 2018 Google, Inc.  
 Google Cloud Platform Research credit award  
*Optimization of computational pipelines to support the C. elegans Natural Diversity Resource*  
 PI - Andersen
- 2018 - 2023 National Science Foundation (1764421) and Simons Foundation (597491)  
 Research Center for Mathematics of Complex Biological Systems  
*Understanding organismal growth and development through quantitative approaches*  
 Lead PIs Dr. Rich Carthew and Dr. Bill Kath, co-PIs Andersen, Mangan, Bagheri, Braun, Wang
- 2018 - 2022 National Institutes of Health (R01 GM127433) - NIGMS  
*100k spontaneous mutations: the foundation for an evolutionary systems biology of C. elegans*  
 PI Dr. Charlie Baer (Univ. of Florida), PI Dr. Vaishali Katju (Texas A+M) with sub to Andersen
- 2017 - 2021 National Institutes of Health (R01 DK115690) - NIDDK  
*Large scale nutrigenetics and genomics in a tractable metazoan model*  
 Multi-investigator Grant with EC Andersen, AJ Marian Walhout (UMass Medical School), Frank Schroeder (Cornell)
- 2017 - 2019 National Institutes of Health (R21 AG053638) - NIA  
*High-throughput multi-modal analysis of natural variation in C. elegans healthspan*  
 Multi-investigator Grant with Chris Fang-Yen (Univ. of Pennsylvania) and Andersen

- 2016 - 2019 National Institutes of Health (R21 AI121836) - NIAID  
*Discovery and validation of avermectin resistance loci in free-living and parasitic nematodes*  
 PI - Andersen with subcontract to Dr. Michael Kimber (Iowa State University)
- 2015 - 2019 American Cancer Society Research Scholar Grant  
*Elucidating the genetic causes of variation in chemotherapy-based toxicity*  
 PI - Andersen
- 2014 - 2019 Pew Charitable Trusts, Scholars Program in the Biomedical Sciences  
*Elucidating the genetics of anthelmintic resistance in nematode-borne neglected tropical diseases*  
 PI - Andersen
- 2014 - 2019 National Institutes of Health (R01 GM107227) - NIGMS  
*Direct determination of the distribution of fitness effects of spontaneous mutations*  
 PI Dr. Charlie Baer (University of Florida) with subcontract to Andersen
- PAST**
- 2016 - 2017 Amazon Web Services  
*Optimization of computational pipelines to support the C. elegans Natural Diversity Resource*  
 PI - Andersen
- 2016-2017 IDP/Sherman Fairchild Research Innovation Challenge Award, Robert H. Lurie Comprehensive Cancer Center  
*Validating individual differences in cytotoxicity to improve personalized chemotherapy treatment regimens*  
 Multi-investigator Grant with Andersen and Dr. Paul Burrridge (Northwestern University)
- 2015 - 2017 March of Dimes Basil O'Connor Starter Research Grant  
*Identification of hookworm anthelmintic resistance genes to ameliorate maternal and infant anemia*  
 PI - Andersen
- 2016 Weinberg College Research Innovation Grant, Northwestern University  
*The Caenorhabditis elegans Natural Diversity Resource - a powerful tool to facilitate biomedical discovery*  
 PI - Andersen
- 2014 - 2016 Chicago Biomedical Consortium, Catalyst Grant  
*Uncovering "missing heritability" in an experimentally tractable model organism*  
 Multi-investigator Grant with Andersen and Ilya Ruvinsky (University of Chicago)
- 2016 Data Scientist Initiative, Northwestern University  
*A novel statistical model to predict the removal of mobile genetic elements*  
 Multi-investigator Grant with Andersen and Jiping Wang (Northwestern University)
- 2013 - 2014 American Cancer Society, Institutional Research Grant [93-037-18]  
*Elucidating the genetic causes of variation in chemotherapy-based toxicity*  
 PI - Andersen
- 2013 - 2014 Chemistry of Life Processes, Chairman's Innovation Award  
*Using perturbations of heavy metal homeostasis to treat nematode-borne neglected tropical diseases*  
 Multi-investigator Grant with Andersen and Thomas O'Halloran (Northwestern University)

## PUBLICATIONS

corresponding authors in bold, undergraduate co-authors in italics, graduate students and post-docs in underline

h-index=21, i10-index=31, link to Google Scholar page ([here](#))

1. Brady SC, Zdraljevic S, Bisaga KW, Tanny RE, Cook DE, Lee D, Wang Y, **Andersen EC** (2019)  
A nematode-specific gene underlies bleomycin-response variation in *Caenorhabditis elegans*  
*bioRxiv* 565218; DOI <https://doi.org/10.1101/565218>
2. Gimond C, Vielle A, Silva Soares N, Zdraljevic S, McGrath PT, **Andersen EC**, Braendle C (2019)  
Evolution of sperm competition: Natural variation and genetic determinants of *Caenorhabditis elegans* sperm size  
*bioRxiv* 501486; DOI <https://doi.org/10.1101/501486>
3. Bernstein MR, Zdraljevic S, **Andersen EC**, and Rockman MV (2018)  
Tightly linked antagonistic-effect loci underlie polygenic demographic variation in *C. elegans*  
*bioRxiv* 428466; DOI <https://doi.org/10.1101/428466>
4. Zdraljevic S, Fox BW, Strand C, Panda O, Tenjo-Castano FJ, Brady SC, Crombie TA, Doench JG, Schroeder FC, and **Andersen EC** (2018)  
Natural variation in arsenic toxicity is explained by differences in branched chain amino acid catabolism  
*bioRxiv* 373787; DOI <https://doi.org/10.1101/373787>  
Accepted at *eLife* under new trial of paper acceptance before review
5. Hahnel SR, Zdraljevic S, Rodriguez BC, Zhao Y, McGrath PT, and **Andersen EC** (2018)  
Extreme allelic heterogeneity at a *Caenorhabditis elegans* beta-tubulin locus explains natural resistance to benzimidazoles  
*PLoS Pathogens* Oct 29; 14(10):e1007226  
Citations: 1, Journal Impact Factor (2017): 6.158
6. Brady SC, Evans KS, Bloom JS, Tanny RE, Cook DE, Giuliani SE, *Hippleheuser SW*, Zamanian M, and **Andersen EC**.  
Common genomic intervals underlie natural variation in diverse toxin responses  
*Genetics* accepted on Sept. 24, 2018  
*bioRxiv* 325399; DOI: <https://doi.org/10.1101/325399>
7. Zamanian M, Cook DE, Zdraljevic S, Brady SC, Lee D, Lee J, and **Andersen EC** (2018)  
Discovery of genomic intervals that underlie nematode responses to benzimidazoles  
*PLoS Neglected Tropical Diseases* Mar 5; 12(3):e0006368  
Citations: 5, Journal Impact Factor (2017): 4.367
8. Zdraljevic S and **Andersen EC** (2017)  
Natural diversity facilitates the discovery of conserved chemotherapeutic response mechanisms  
*Current Opinions in Genetics and Development* Dec;47:41-47  
Citations: 4, Journal Impact Factor (2017): 4.995
9. Zdraljevic S, Strand C, Seidel HS, Cook DE, Doench JG, and **Andersen EC** (2017)  
Natural variation in a single amino acid substitution underlies physiological responses to topoisomerase II poisons  
*PLoS Genetics* Jul 12; 13(7):e1006891  
Citations: 16, Journal Impact Factor (2017): 5.540

10. Lee D, Yang H, Kim J, Brady SC, Zdraljevic S, Zamanian M, Kim H, Paik Y, Kruglyak L, **Andersen EC** and **Lee J** (2017)  
The genetic basis of natural variation in a phoretic behavior  
*Nature Communications* Aug 17; 8(1):273  
Citations: 11, Journal Impact Factor (2016): 12.353
11. Laricchia KM, Zdraljevic S, Cook DE, and **Andersen EC** (2017)  
The causes and consequences of natural variation in the distribution and abundance of transposable elements across the *Caenorhabditis elegans* species.  
*Molecular Biology and Evolution* Sept 1; 34(9):2187-2202  
Citations: 9, Journal Impact Factor (2017): 10.217
12. Garcia-Gonzalez AP, Ritter AD, Shrestha S, Andersen EC, Yilmaz LS, **Walhout AJM** (2017)  
Bacterial metabolism affects the *C. elegans* response to cancer chemotherapeutics.  
*Cell* Apr 20; 169(3):431-441  
Citations: 40, Journal Impact Factor (2017): 31.398
13. Cook DE and **Andersen EC** (2017)  
VCF-kit: Assorted utilities for the variant call format  
*Bioinformatics* May 15; 33(10):1581-1582  
Citations: 9, Journal Impact Factor (2017): 5.481
14. Mashock MJ, Zanon T, Kappell AD, Petrella LN, Andersen EC, **Hristova KR** (2016)  
Copper oxide nanoparticles impact several toxicological endpoints and cause neurodegeneration in *Caenorhabditis elegans*  
*PLoS ONE* Dec 2; 11(12):e0167613  
Citations: 7, Journal Impact Factor (2017): 2.766
15. Evans KS, Zhao Y, Brady SC, Long L, McGrath PT, **Andersen EC** (2016)  
Correlations of genotype with climate parameters suggest *Caenorhabditis elegans* niche adaptations  
*G3* Nov 18; [10.1534/g3.116.035162]  
Citations: 10, Journal Impact Factor (2017): 2.742
16. Cook DE, Zdraljevic S, Roberts JP, **Andersen EC** (2016)  
CeNDR, the *Caenorhabditis elegans* Natural Diversity Resource.  
*Nucleic Acids Research* Jan 4; 45(D1):D650-D657  
Citations: 41, Journal Impact Factor (2017): 11.561
17. Cook DE, Zdraljevic S, Tanny RE, Seo B, Riccardi DD, Noble LM, Rockman MV, Alkema MJ, Braendle C, Kammenga JE, Wang J, Kruglyak L, Felix MA, Lee J, **Andersen EC** (2016)  
The genetic basis of natural variation in *C. elegans* telomere length  
*Genetics* Sept; 204(1):371-83  
Citations: 35, Journal Impact Factor (2017): 4.075
18. Large EE, Xu W, Zhao Y, Brady SC, Long L, Butcher RA, Andersen EC, **McGrath PT** (2016)  
Selection on a Subunit of the NURF Chromatin Remodeler Modifies Life History Traits in a Domesticated Strain of *Caenorhabditis elegans*  
*PLoS Genetics* July 28; 12(7):e1006219  
Citations: 13, Journal Impact Factor (2017): 5.540

19. Zamanian M and **Andersen EC**. (2016)  
Prospects and challenges of CRISPR/Cas genome editing for the study and control of neglected vector-borne nematode diseases  
*FEBS Sep*; 283(17):3204-21  
Citations: 21, Journal Impact Factor (2017): 4.530
20. Farhadifar R, Ponciano JM, Andersen EC, Needleman DJ, **Baer CF**. (2016)  
Mutation Is a Sufficient and Robust Predictor of Genetic Variation for Mitotic Spindle Traits in *Caenorhabditis elegans*  
*Genetics Aug*; 203(4):1859-1870  
Citations: 10, Journal Impact Factor (2017): 4.075
21. Sterken MG, Snoek LB, **Kammenga JE, Andersen EC**. (2015)  
The laboratory domestication of *C. elegans*  
*Trends in Genetics Mar*; 31(5) 224-231  
Citations: 57, Journal Impact Factor (2017): 10.556
22. Thompson OA, Snoek LB, Nijveen H, Sterken MG, Volkers RJM, Brenchley R, van't Hof A, Bevers RPJ, Cossins AR, Yanai I, Hajnal A, Schmid T, Perkins JD, Spencer D, Kruglyak L, Andersen EC, Moerman DG, Hillier LW, Kammenga JE, **Waterston RH**. (2015)  
Remarkably divergent regions punctuate the genome assembly of the *Caenorhabditis elegans* Hawaiian strain CB4856  
*Genetics May 19*; 200(3) 975-989  
Citations: 51, Journal Impact Factor (2017): 4.075
23. **Andersen EC**, *Shimko TC*, Crissman JR, Ghosh R, Gerke JP, Seidel HS, **Kruglyak L**. (2015)  
A powerful new quantitative genetics platform combining *Caenorhabditis elegans* high-throughput fitness assays with a large collection of recombinant strains  
*G3 Mar 13*; 5(5) 911-920  
Citations: 37, Journal Impact Factor (2017): 2.742
24. Farhadifar R, Baer CF, Valfort AC, Andersen EC, Muller-Reichert T, Delattre M, **Needleman DJ**. (2015)  
Scaling, Selection, and Evolutionary Dynamics of the Mitotic Spindle  
*Current Biology Mar 16*; 25(6) 732-740  
Citations: 33, Journal Impact Factor (2017): 8.851
25. Balla K, Andersen EC, Kruglyak L, **Troemel E**. (2015)  
A wild *C. elegans* strain has enhanced epithelial immunity to a natural microsporidian parasite  
*PLoS Pathogens Feb 13*; 11(2)e1004583  
Citations: 23, Journal Impact Factor (2017): 6.158
26. Etienne V\*, Andersen EC\*, Ponciano JM, Blanton D, Cadavid A, Joyner-Matos J, Matsuba C, Tabman B, **Baer CF**. (2015)  
The Red Death Meets the Abdominal Bristle: Polygenic Mutation for Susceptibility to a Bacterial Pathogen in *Caenorhabditis elegans*  
*Evolution Feb*; 69(2) 508-519 \*equal contribution  
Citations: 5, Journal Impact Factor (2017): 4.201



27. Shimko TC, Andersen EC. (2014)  
*COPASutils*: an R package for reading, processing, and visualizing data from COPAS large-particle flow cytometers  
*PLoS One* Oct 20; 9(10):e111090  
 Citations: 18, Journal Impact Factor (2017): 2.766
28. Andersen EC, Bloom JS, Gerke JP, Kruglyak L. (2014)  
 A variant in the neuropeptide receptor *npr-1* is a major determinant of *Caenorhabditis elegans* growth and physiology  
*PLoS Genetics* Feb; 10(2):e1004156  
 Citations: 61, Journal Impact Factor (2017): 5.540

**Publications from research prior to Northwestern University:**  
undergraduate co-authors in italics, corresponding authors underlined

- Felix MA, Jovelín R, Ferrari C, Han S, Cho YR, Andersen EC, Cutter AD, Braendle C. (2013)  
 Species richness, distribution and genetic diversity of *Caenorhabditis* nematodes in a remote tropical rainforest  
*BMC Evolutionary Biology* 13(1), 10
- Ghosh R, Andersen EC, Shapiro JA, Gerke JP, Kruglyak L. (2012)  
 Natural variation in a chloride channel subunit confers avermectin resistance in *C. elegans*  
*Science* 335(6068): 574-578.
- Andersen EC\*, Gerke JP\*, Shapiro JA\*, Crissman JR, Ghosh R, Bloom JS, Felix MA, Kruglyak L. (2012)  
 Chromosome-scale selective sweeps shape *Caenorhabditis elegans* genomic diversity  
*Nature Genetics* 44(3): 285-290. \*equal contribution
- Andersen EC. (2011)  
 PCR-directed *in vivo* plasmid construction using homologous recombination in baker's yeast  
*Molecular Methods for Evolutionary Genetics*, 772; 409-421. \*Invited book chapter
- Raj A, Rifkin SA, Andersen EC, van Oudenaarden A. (2010)  
 Variability in gene expression underlies incomplete penetrance  
*Nature* 463(7283): 913-918.
- Bessler JB, Andersen EC, Villeneuve AB. (2010)  
 Differential localization and independent acquisition of the H3K9me2 and H3K9me3 chromatin modifications in the *Caenorhabditis elegans* adult germ line  
*PLoS Genetics* 6(1): e1000830.
- Reddy KC\*, Andersen EC\*, Kruglyak L., and Kim DH. (2009)  
 A polymorphism in *npr-1* is a behavioral determinant of pathogen susceptibility in *C. elegans*  
*Science* 323(5912): 382-384. \*equal contribution
- Andersen EC, Saffer AM, and Horvitz HR. (2008)  
 Multiple levels of redundant processes inhibit *Caenorhabditis elegans* vulval cell fates  
*Genetics* 179(4): 2001-2012.

Andersen EC and Horvitz HR. (2007)

Two *C. elegans* histone methyltransferases repress *lin-3* EGF transcription to inhibit vulval development

*Development* 134(16): 2991-2999.

Reddien PW, Andersen EC, *Huang M*, and Horvitz HR. (2007)

DPL-1 DP, LIN-35 Rb, and EFL-1 E2F act with the MCD-1 Zinc-finger protein to promote programmed cell death in *C. elegans*

*Genetics* 175(4): 1719-1733.

Andersen EC, Lu X, and Horvitz HR. (2006)

*C. elegans* ISWI and NURF301 antagonize an Rb-like pathway in the determination of multiple cell fates

*Development* 133(14): 2695-2704.

Furlong EE, *Andersen EC*, Null B, White KP, and Scott MP. (2001)

Patterns of gene expression during *Drosophila* mesoderm development

*Science* 293(5535): 1629-1633.

## PROFESSIONAL TALKS

### Departmental seminars and invited conference presentations (not including trainees):

- 2019 Dept. of Genome Sciences, Univ. of Washington, Seattle, WA  
 Dept. of Infectious Diseases, Univ. of Georgia, Athens, GA  
 Dept. of Biology, Georgia Institute of Technology, Atlanta, GA  
 Ingram Cancer Center, Vanderbilt University, Nashville, TN
- 2018 Max Planck Institute for Developmental Biology, Tübingen, Germany  
 Dept. of Evolutionary Ecology and Genetics, Christian-Albrechts-Universität, Kiel, Germany  
 Berlin Seminar for Resistance Research, Freie Universität Berlin, Berlin, Germany  
 Robert H Lurie Comprehensive Cancer Center, Northwestern University, Chicago, IL  
 Dept. of Genetics, Washington University School of Medicine, St. Louis, MO  
 Dept. of Genetics, University of Pennsylvania, Philadelphia, PA  
 Dept. of Pathobiology, University of Pennsylvania, Philadelphia, PA  
 Dept. of Microbiology, Seoul National University, Seoul, Korea  
 Dept. of Biology, University of Oregon, Eugene, OR  
 Dept. of Biological Sciences, University of Southern California, Los Angeles, CA  
 Dept. of Cell Biology and Anatomy, Rosalind Franklin University, Chicago, IL  
 New York Univ. Center for Genomics and Sys. Bio. Parasite Workshop, Abu Dhabi, UAE
- 2017 Department of Biology, Univ. of California - San Diego, San Diego, CA  
 Department of Biology, Duke University, Durham, NC  
 Donnelly Centre for Cellular And Biomolecular Research, University of Toronto, Toronto, ON  
 Department of Molecular Biology and Genetics, Cornell University, Ithaca, NY  
 Medical Research Council, London Institute of Medical Sciences, London, UK  
 Department of Biology, Carnegie Mellon University, Pittsburgh, PA  
 Host-Parasite Interactions, University of Calgary, Banff, Canada  
 Florida Area Worm Meeting (keynote), Florida Institute of Technology, Melbourne, FL  
 Department of Biology, Skirball Institute, New York University Medical School, New York, NY  
 Department of Biology, University of Minnesota, Minneapolis, MN  
 Department of Biology, Indiana University, Bloomington, IN  
 New York University Center for Genomics and Systems Biology Symposium in Abu Dhabi, UAE
- 2016 Midwest Quantitative Biology at Purdue University, West Lafayette, IN  
 Molecular and Cellular Biology of Helminth Parasites X, Hydra, Greece



- 2016 Computational Research Day, Northwestern University, Evanston, IL  
 Evolutionary Biology of *Caenorhabditis* and other nematodes (keynote), CSHL, Cold Spring Harbor, NY  
 Department of Genetics, University of Utah, Salt Lake City, UT  
 Department of Biology, University of Iowa, Iowa City, IA  
 Department of Biomedical Sciences, Iowa State University, Ames, IA  
 Anthelmintics: Discovery to Resistance II, San Diego, CA
- 2015 Program in Systems Biology, University of Massachusetts Medical School, Worcester, MA  
 Evolution seminar series, University of Wisconsin, Madison, WI  
 Biotechnology Training Program, Northwestern University, Evanston, IL  
 Department of Biology, Johns Hopkins University, Baltimore, MD  
 Department of Biology, University of Maryland, College Park, MD  
 Department of Pharmacology, Feinberg School of Medicine, Northwestern University, Chicago, IL  
 Midwest Neglected Infectious Disease Meeting, Notre Dame University, South Bend, IN  
 Quantitative genetics workshop, 20th International *C. elegans* meeting, UCLA, Los Angeles, CA  
 Michigan Area Worm Meeting, van Andel Institute, Grand Rapids, MI
- 2014 Northwestern Institute on Complex systems, Northwestern University, Evanston, IL  
 Fondation de Treilles: Revisiting the roles of phenotypic plasticity in evolution, Provence, France  
 Biology Department, Marquette University, Milwaukee, WI  
 Pharmacogenomics group, University of Chicago, Chicago, IL

*Seminars before starting at Northwestern:*

- 2013 Quantitative genetics workshop, 19th International *C. elegans* meeting, UCLA, Los Angeles, CA  
 Molecular Bioscience Department, Northwestern University, Evanston, IL  
 Program in Systems Biology, University of Massachusetts Medical School, Worcester, MA
- 2012 Biology Department, Dartmouth University, Hanover, NH  
 Human Genetics Department and Life Sciences Institute, University of Michigan, Ann Arbor, MI  
 Genetics Department, University of Georgia, Athens, GA  
 Biology Department, Case Western Reserve University, Cleveland, OH  
 Biology Department and BioDesign Institute, Arizona State University, Phoenix, AZ  
 Center for Computational and Integrated Biology, Rutgers University, Camden, NJ  
 Biology Department, University of Florida, Gainesville, FL
- 2011 Evolution workshop, 18th International *C. elegans* meeting, UCLA, Los Angeles, CA  
 Laboratory of Toxicology, NIEHS, Research Triangle Park, NC
- 2010 Institute for Evolutionary Biology Department, University of Edinburgh, Edinburgh, UK
- 2008 Featured talk at *C. elegans* Aging, Stress, and Pathogenesis meeting, Madison, WI
- 2000 Undergraduate research symposium, Stanford University, Stanford, CA

**Seminars chosen from abstracts (not including trainees):** (\*selected for oral presentation)

- 2018 \*Evolutionary biology of *Caenorhabditis* and other nematodes meeting, Hinxton, UK  
 Evolutionary biology of *Caenorhabditis* and other nematodes meeting (poster), Hinxton, UK  
 \*Anthelmintics III, Indian Rocks Beach, FL
- 2017 \*Molecular Helminthology: An Integrated Approach, Cape Cod, MA
- 2015 \*Midwest Neglected Infectious Disease meeting, U. of Notre Dame, Notre Dame, IN  
 \*Bridging the divide, 20th International *C. elegans* meeting, UCLA, Los Angeles, CA
- 2013 \*19th International *C. elegans* meeting, UCLA, Los Angeles, CA  
 Society for Molecular Biology of Evolution, Chicago, IL
- 2012 \*Evolutionary biology of *Caenorhabditis* and other nematodes meeting, CSHL, NY
- 2011 \*18th International *C. elegans* meeting, UCLA, Los Angeles, CA  
 18th International *C. elegans* meeting (poster), UCLA, Los Angeles, CA
- 2010 \*Evolutionary biology of *Caenorhabditis* and other nematodes meeting, Hinxton, UK  
 Evolutionary biology of *Caenorhabditis* and other nematodes meeting (poster), Hinxton, UK  
 Cold Spring Harbor Labs Automated Imaging and High-throughput Phenotyping, CSHL, NY

- 2009 \*17th International *C. elegans* meeting, UCLA, Los Angeles, CA  
Gordon Research Conference on Quantitative Genetics and Genomics, Galveston, TX
- 2007 Department of Biology Annual Retreat, MIT, \*\* poster prize winner
- 2006 *C. elegans* Evolution and Development meeting, Univ. of Wisconsin, Madison, WI
- 2005 \*15th International *C. elegans* meeting, UCLA, Los Angeles, CA  
Chromatin Structure and Function meeting, Nassau, Bahamas
- 2004 East Coast *C. elegans* meeting, Yale, New Haven, CT
- 2003 \*14th International *C. elegans* meeting, UCLA, Los Angeles, CA
- 2002 East Coast *C. elegans* meeting, University of New Hampshire, Durham, NH

## PEER REVIEW AND RELATED ACTIVITIES

### Editorial board:

2015 - *Trends in Genetics*

### Associate editor:

2017 - *BMC Genomics (Multicellular invertebrate genomics)*

### Guest editor:

*PLoS Genetics*

### Reviewing activity: Academic Journals

*American Naturalist, Biological Journal of the Linnean Society, BMC Evolutionary Biology, BMC Genetics, BMC Genomics, Cell, Development, eLife, EMBO, Environmental Microbiology, Genes and Development, G3, Genetics, Genome Research, Journal of Visualized Experiments, Heredity, Nature, Nature Scientific Reports, Nature Genetics, PLoS Genetics, PLoS Neglected Tropical Diseases, PLoS ONE, PLoS Pathogens, PNAS, Science, Scientific Reports, Trends in Genetics, Trends in Molecular Medicine, Trends in Parasitology*

### Reviewing activity: Grants and fellowships

- 2019 *Ad hoc* reviewer for Swiss 3R Competence Centre
- 2018 Scientific Advisory Board for P01AI127338 (PI Michael Ferdig, Notre Dame Univ.)
- 2017 *Ad hoc* reviewer for Bill and Melinda Gates Foundation
- 2014 *Ad hoc* reviewer for Human Frontiers Science Program
- 2014 *Ad hoc* reviewer for National Science Foundation (IOS)

## PROFESSIONAL AFFILIATIONS AND SERVICE

### Membership in Professional Societies:

Genetics Society of America, member

Society of Molecular Biology and Evolution, member

### Professional service:

- 2019 External thesis committee member for Amanda Shaver (Edison lab, Univ. of Georgia)  
External thesis committee member for Aurian Garcia-Gonzalez (Walhout lab, UMMS)  
Co-organizer of the Chicago Area Worm Meeting (ChAWM, [www.chawm.org](http://www.chawm.org))  
Scientific Advisory Board Member for P01AI127338 (PI Dr. Michael Ferdig, Notre Dame Univ.)
- 2018 Organizing committee for *C. elegans* dev., cell bio., and gene exp. meeting (Barcelona, Spain)  
Chair of the Natural Variation session, *C. elegans* dev., cell bio., and gene exp. meeting  
Co-organizer of the Chicago Area Worm Meeting (ChAWM, [www.chawm.org](http://www.chawm.org))  
Scientific Advisory Board Member for P01AI127338 (PI Dr. Michael Ferdig, Notre Dame Univ.)

- 2018 Organizing committee for Parasitic Nematodes meeting, NYU Abu Dhabi  
External thesis committee member for Victoria Vu (Fraser lab, University of Toronto)  
Poster judge, Northwestern Undergraduate Research Symposium
- 2017 Organizing committee for the 21st International *C. elegans* meeting
- 2017 Chair of the Evolution and Ecology parallel session, 21st International *C. elegans* meeting
- 2015 Organizing committee for the 20th International *C. elegans* meeting  
Poster judge, 20th International *C. elegans* meeting - Evolution and Genomics section  
Genetics Soc. of America Mentor Lunch, *Postdoc search*, 20th International *C. elegans* meeting
- 2014 Panelist, NUIN Post-doc Association, *Interviews and Start-up packages*  
Poster judge, Northwestern Undergraduate Research Symposium  
Panelist, Pathways to the Professoriate, *How to prepare for a job interview?*
- 2013 Poster judge, Northwestern Undergraduate Research Symposium  
Panelist, Bioscientist Freshman seminar; *How to find a research lab?*  
Poster judge, 19th International *C. elegans* meeting - Evolution and Genomics section

### ***C. elegans* community service:**

- 2016 - Creator and advisor board member of the *C. elegans* Natural Diversity Resource (CeNDR, [link](#))  
This resource organizes and disseminates wild *C. elegans* strains, whole-genome sequence data, and enables genome-wide association mappings through a cloud-based service. Since 2016, over 1900 strains have been distributed to the community and over 2000 mappings have been performed.

## **TEACHING AND ADVISING**

### **Undergraduate teaching:**

- 2019 **Biological Sciences 393: *Genetic Analysis* (spring)**  
Biological Sciences 398: *Tutorial in Biology* (Anna Derrick, Emily Jahn, Kailyn Parham)  
Biological Sciences 399: *Independent Research* (Karol Bisaga, Grace Park)
- 2018 **Biological Sciences 393: *Genetic Analysis* (winter, 28 students)**  
Biological Sciences 398: *Tutorial in Biology* (Karol Bisaga)  
Biological Sciences 399: *Independent Research* (Karol Bisaga, Kimberly Collins, Selina Deiparine, Grace Park)
- 2017 **Biological Sciences 393: *Genetic Analysis* (spring, 22 students)**  
Biological Sciences 398: *Tutorial in Biology* (Kimberly Collins)  
Biological Sciences 399: *Independent Research* (Selina Deiparine, Samuel Hamilton, Grace Park)
- 2016 **Biological Sciences 393: *Genetic Analysis* (spring, 17 students)**  
Biological Sciences 398: *Tutorial in Biology*  
(Sarah Bier, Mattlyn Cordova, Selina Deiparine, Samuel Hamilton, Grace Park)
- 2015 *Guest Lecture*: University of Wisconsin-Madison Biology 675 - *Evolution seminar*  
(fall, 8 students)  
**New course: Biological Sciences 393: *Genetic Analysis* (spring, 10 students)**  
Biological Sciences 398: *Tutorial in Biology* (Lautaro Cilenti)  
Biological Sciences 399: *Independent Research* (Kreena Patel, Hillary Tsang)
- 2014 Biological Sciences 398: *Tutorial in Biology* (Mazeed Aro-Lambo, Kreena Patel, Hillary Tsang)

### **Graduate teaching:**

- 2018 Interdisciplinary Biological Sciences 421: *Rigor and Reproducibility*  
(summer, one guest lecture, 25 students)

- 2018 Interdisciplinary Biological Sciences/Chemistry 416: *Practical Training in Chemical Biology Methods and Experimental Design*  
(spring, five lectures, 10 students)
- 2017 Interdisciplinary Biological Sciences 421: *Rigor and Reproducibility*  
(summer, one guest lecture, 15 students)  
Interdisciplinary Biological Sciences/Chemistry 416: *Practical Training in Chemical Biology Methods and Experimental Design*  
(spring, five lectures, 8 students)
- 2017 Interdisciplinary Biological Sciences 421: *Rigor and Reproducibility*  
(spring, one guest lecture, 5 students)
- 2016 Interdisciplinary Biological Sciences: *Graduate Computational Biology Bootcamp*  
(fall, 3 days, eight hours per day, 19 students) - [www.GitHub.com/AndersenLab/IBiS-Bootcamp](http://www.GitHub.com/AndersenLab/IBiS-Bootcamp)
- 2015 Interdisciplinary Biological Sciences 402: *Eukaryotic Molecular Biology*  
(fall, one guest lecture, 22 students)  
Interdisciplinary Biological Sciences: *Graduate Computational Biology Bootcamp*  
(fall, 3 days, eight hours per day, 22 students) - [www.GitHub.com/AndersenLab/IBiS-Bootcamp](http://www.GitHub.com/AndersenLab/IBiS-Bootcamp)  
Interdisciplinary Biological Sciences 423: *Ethics of peer review*  
(spring, one guest lecture, 41 students)
- 2014 Interdisciplinary Biological Sciences 402: *Eukaryotic Molecular Biology*  
(fall, one guest lecture, 16 students)  
**New course:** Interdisciplinary Biological Sciences: *Graduate Computational Biology Bootcamp*  
(fall, 3 days, eight hours per day, 16 students) - [www.GitHub.com/AndersenLab/IBiS-Bootcamp](http://www.GitHub.com/AndersenLab/IBiS-Bootcamp)  
Interdisciplinary Biological Sciences 423: *Ethics of peer review*  
(spring, one guest lecture, 42 students)
- 2013 Interdisciplinary Biological Sciences 402: *Eukaryotic Molecular Biology*  
(fall, one guest lecture, 24 students)

**K-12 advising:**

Sarosh Nagar, Glenbrook North High School (2018-2019 academic year)  
 Britney Sun, Glenbrook North High School (summer 2018)  
 Ethan Schonfeld, Glenbrook North High School (summer 2018)  
 Lillian Tushman, Oak Park and River Forest High School (2016-2017 academic year)  
 Caitlin Westerfield, Evanston Township High School (2015-2016 academic year)  
 Matteo di Bernardo, Evanston Township High School (2015-2016 academic year)  
 Ainsley Tran, Oak Park and River Forest High School (2015-2016 academic year)  
 Lauren Mann, Oak Park and River Forest High School (2014-2015 academic year)  
 Jacob Cruger, Latin School of Chicago (summers 2013, 2014)  
 Gina Liu, Illinois Math and Science Academy (2013-2014 academic year)

**Undergraduate advising:**

Emily Jahn (2019 - , Class of 2020), Biological Sciences Major  
 Kailyn Parham (2019 - , Class of 2021), Biological Sciences Major  
 Anna Derrick (2019 - , Class of 2021), Biological Sciences Major  
 Katie Introcaso (2018 - , Class of 2022), Biological Sciences Major  
 Ellen Chao (2018 - , Class of 2021), Biological Sciences Major  
     2018 Summer URG recipient  
 Tim Sheng (2018 - , Class of 2019), Biological Sciences Major  
     2018 Summer URG recipient  
 Grace Park (2016 - , Class of 2019), Biological Sciences Major  
     2016 Posner Fellowship recipient  
     2017 Program in Biological Sciences Summer Grant recipient

Yihong Hu (2018 - 2019, Class of 2021), Biological Sciences Major  
*2018 Program in Biological Sciences Summer Grant recipient*

Peter Finnegan (2017 - 2018, Class of 2020), Biological Sciences Major  
*2017 Program in Biological Sciences Summer Grant recipient*

Karol Bisaga (2017 - , Class of 2020), Biological Sciences Major  
*2017 NU Bioscientist Summer Grant recipient*

Kimberly Collins (2016 - 2018, Class of 2020), Biological Sciences Major  
*2017 NU Bioscientist Summer Grant recipient*

Selina Deiparine (2016 - 2018, Class of 2018), Biological Sciences Major  
*2016 Summer URG recipient, 2016 Academic URG recipient*

Rohit Rastogi (2016 - 2017, Class of 2019), Computer Science and Statistics Majors

Sarah Bier (2016 - 2017, Class of 2019), Biological Sciences Major  
*2016 Summer URG recipient*

Mattlyn Cordova (2016 - 2017, Class of 2019), Gender Studies Major  
*2016 Program in Biological Sciences Summer Grant recipient*

Joshua Roberts (2015-2016, Class of 2016), Computer Science Major

Nicholas Irons (2015, Class of 2018), Physics Major  
*2015 Summer URG recipient*

Annika Zhang (2014-2015, Class of 2018), Biological Sciences Major  
*2015 Weinberg College Summer Grant recipient*

Tyler Shimko (summers 2012, 2013, 2014, 2015, University of Utah Class of 2015), Biology Major  
*Barry Goldwater Scholarship recipient*  
*Myriad Academic Scholarship recipient*  
*Thomas Verender Hanks Scholarship recipient*  
*National Science Foundation Graduate Research Fellowship recipient*  
*Department of Energy Computational Science Graduate Fellowship Honorable Mention*

Mazeed Aro-Lambo (2014, Class of 2017), Biological Sciences Major  
*2014 NU Bioscientist Summer Grant recipient*

Stevie Hippleheuser (2014 - , Class of 2017), Biological Sciences Major  
*2016 Program in Biological Sciences Summer Grant recipient*  
*2015 Summer URG recipient*  
*2014 Weinberg College Summer Grant recipient*

Camille Calvin (2014, Class of 2017), Mechanical Engineering Major  
*2014 Posner fellowship recipient*

Hillary Tsang (2013 - 2016, Class of 2016), Biological Sciences Major  
*2015 Weinberg Summer Grant recipient*  
*2014 Summer URG recipient*  
*2014 Academic URG recipient*

Lautaro Clienti (2013 - 2015, Class of 2017), Mechanical Engineering Major  
*2014 Academic URG recipient*

Kreena Patel (2013 - 2015, Class of 2015), Biological Sciences and Psychology Double Major  
*2015 Emmanuel Margoliash Prize for Basic Research recipient*  
*Winfred Hill Award recipient*  
*James Alton James Scholar*  
*Ellen Taus Scholarship recipient*  
*J.G. Nolan Scholarship recipient*  
*2014 Academic URG recipient*

Zifan Xiang (2014 - 2015, Class of 2015), Biomedical Engineering Major

Stephen Chan (2013 - 2014, Class of 2014), Computer Science Major  
*2013 Summer URG recipient*



**Masters student advising:**

Anita Huang (Biotechnology Program), 2018 - 2020  
 Ryan (Heechul) Chung (Quantitative and Systems Biology Masters), 2018 - 2019  
 Suma Aldakeel (advisor, Cindy Voisine - Northeastern Illinois Univ.), 2016 - 2017  
 Nick Timkovich (advisor, Luis Amaral - Interdisciplinary Biological Sciences Program), 2015  
 Kristen Larrichia (advisor, Nyree Zerega – Program in Plant Biology and Conservation), 2014 - 2015  
 Lucie Bastin-Heline (Master's exchange student, Ecole Normale Superior, Paris, France), 2014

**Graduate student and post-doctoral advising:****Graduate PhD candidates:**

Clayton Dilks (2018 - ), Ph.D. student, Interdisciplinary Biological Sciences Program  
*Funded by the Biotechnology NIH Training grant cluster (2019)*  
 Ye Wang (2017 - 2019), Visiting Ph.D. student, Sichuan Agricultural University, China  
*Funded by China Scholarship Council*  
 Kathryn Evans (2016 - ), Ph.D. student, Interdisciplinary Biological Sciences Program  
*Funded by the Cell and Molecular Basis of Disease NIH Training grant (2017-2019)*  
*Recipient of travel awards from IBiS and the Northwestern Graduate School (2017)*  
*Recipient of Biotechnology NIH Training grant cluster member, declined (2017)*  
 Shannon Brady (2015 - ), Ph.D. student, Interdisciplinary Biological Sciences Program  
*Recipient of the Dr. John N. Nicholson Fellowship (2018-2019)*  
*Funded by the Biotechnology NIH Training grant (2015-2017)*  
*National Science Foundation Graduate Research Fellowship Program (Honorable Mention)*  
*Recipient of travel award from Union Biometrika (2016)*  
*Recipient of travel awards from IBiS and the Northwestern Graduate School (2017)*  
*Poster first prize winner Northwestern Computational Research Day (2017)*  
*Poster prize winner 21st International C. elegans meeting*  
*Best TA award IBiS Graduate Program (2017)*  
 Daniel Cook (2014 - 2018), Ph.D. student, Driskill Graduate Program  
 Current position: Senior Programmer at VectorBase, London, U.K.  
*Funded by a National Science Foundation Pre-doctoral Fellowship (2015-2018)*  
*Recipient of travel awards from IBiS and the Northwestern Graduate School (2016)*  
*Northwestern Presidential Fellowship Finalist (2017)*  
 Stefan Zdraljevic (2014 - ), Ph.D. student, Interdisciplinary Biological Sciences Program  
*Recipient of the IBiS Rappaport Award for Research Excellence (2018)*  
*Funded by the Cell and Molecular Basis of Disease NIH Training grant (2015-2017)*  
*Recipient of travel awards from Northwestern Center for Genetic Medicine (2016, 2017)*  
*Recipient of travel awards from IBiS and the Northwestern Graduate School (2015, 2017)*  
*Chemistry of Life Processes Drug Discovery Scholar (2017)*

**Post-doctoral researchers:**

Gaotian Zhang (2018 - ), Ph.D. from Ecole Normale Supérieure, Paris, advisor Dr. Marie-Anne Felix  
 Timothy Crombie (2017 - ), Ph.D. from University of Florida, advisor Dr. David Julian  
 Steffen Hahnel (2017 - 2018), Ph.D. from Justus-Liebig University, advisor Dr. Christoph Grevelding  
 Current position: Scientist at Bayer Animal Health, Germany  
*Recipient of DFG German Science Fellowship (2018-2020)*  
*Recipient of Northwestern Post-doctoral Travel Award (2018)*  
*Recipient of Burroughs-Wellcome Travel Award (2018)*  
 Daehan Lee (2017 - ), Ph.D. from Seoul National University, advisor Dr. Junho Lee



Mostafa Zamanian (2014 - 2016), Ph.D. from Iowa State University, advisor Dr. Timothy Day  
 Current position: Assistant Professor of Pathobiological Sciences, University of Wisconsin - Madison  
*Recipient of NIH/NIAID K22 Career Transition Award (2016)*  
*Recipient of Northwestern Post-doctoral Travel Award (2016)*  
*Funded by the Bill and Melinda Gates Foundation (2014)*  
 Bryn Gaertner (2014), Ph.D. from University of Oregon, advisor Dr. Patrick Phillips

#### **Additional rotation graduate students:**

Joy Nyaanga (Spring, 2019), Loraina Stinson (Winter, 2019), Emily Czajkowski (Fall, 2018), Julie Liang (Spring, 2018), Elan Ness-Cohn (DGP, Spring, 2018) Kyle Siegel (Spring, 2018), Clayton Dilks (Winter, 2018), Garth Fisher (Fall, 2017), Nicholas Sepulveda (Spring, 2017), Michael Schamber (Winter, 2017), Evan Buechel (Spring, 2016), Nic Daffern (Spring, 2016), Bryan Eder (Winter, 2016), Ryan Abdella (Winter, 2015), Erin Baker (Fall, 2014), Alex Karge (Spring, 2014), Saiorse McSharry (Winter, 2014), Amy Nilles (Fall, 2013), Ian Wolff (Summer, 2013)

#### **Graduate thesis committee memberships:**

Alex McFarland (advisor, Erica Hartman) 2018 -  
 Sumach Aldakeel (advisor, Cindy Voisine - Northeastern Illinois Univ.), 2016 - 2017  
 Adam Hockenberry (advisors, Luis Amaral and Michael Jewett) 2015 - 2017  
 Rachel Bakker (advisor, Rich Carthew) 2015 -  
 Joseph Muldoon (advisors, Neda Bagheri and Josh Leonard) 2015 -  
 Sarah Stainbrook (advisor, Keith Tyo) 2015 -  
 Timothy Toby (advisor, Neil Kelleher) 2015 - 2018  
 Rose Njoroge (advisor, Sarki Abdulkadir – DGP, Feinberg School of Medicine), 2014 - 2018  
 Keila Torre-Santiago (advisor, Sadie Wignall) 2014 - 2017  
 Aaron Sue (advisor, Thomas O'Halloran), 2014 -  
 Arianne Rodriguez (advisor, Yun Wang), 2014 (Transferred to DGP)  
 Ritika Giri (advisor, Richard Carthew), 2013 -  
 Lilien Voong (advisor, Alec Wang), 2013 - 2017

## **DEPARTMENT, COLLEGE, AND UNIVERSITY SERVICE**

#### **Departmental Service:**

2017	Departmental Strategic Planning committee
2016	Faculty search committee
	Departmental Strategic Planning committee
2015	Faculty search committee
2014	Departmental Program Review committee

#### **Weinberg College of Arts and Sciences Service:**

2016	Faculty search committee for the Neurobiology Department
2014	NUIN Post-doc Association, <i>Interviews and Start-up packages</i>

#### **University-level Service:**

2018	IBiS Graduate Admissions committee
	Steering committee for NUSeq Facility in Northwestern Medicine
	Qualifying examination committee, Chair (Alex McFarland, Hartman lab)
	Masters Program in Quantitative and Systems Biology, Curriculum committee
	Poster judge, Northwestern Undergraduate Research Symposium
	<i>Ad hoc</i> reviewer for Chemistry of Life Processes undergraduate grants and fellowships
	<i>Ad hoc</i> reviewer for Data Science Initiative grants and fellowships

- 2017 Discussion organizer, Northwestern Computational Research Day  
Steering committee for NUSeq Facility in Northwestern Medicine  
*Ad hoc* reviewer for Chemistry of Life Processes undergraduate grants and fellowships  
*Ad hoc* reviewer for Data Science Initiative grants and fellowships
- 2016 IBiS Computational Bootcamp for incoming graduate students  
Lurie Cancer Center American Cancer Society IRG review panel  
Steering committee for NUSeq Facility in Northwestern Medicine  
*Ad hoc* reviewer for Chemistry of Life Processes undergraduate grants and fellowships  
*Ad hoc* reviewer for Data Science Initiative grants and fellowships
- 2016 IBiS Graduate Admissions committee
- 2015 IBiS Retreat committee, Co-chair  
IBiS Computational Bootcamp for incoming graduate students  
Qualifying examination committee (Rachel Bakker, Carthew lab)  
Qualifying examination committee, Chair (Joseph Muldoon, Bagheri and Leonard labs)  
Qualifying examination committee (Sarah Stainbrook, Tyo lab)  
Qualifying examination committee (Timothy Toby, Kelleher lab)
- 2014 Creation of IBiS Computational Bootcamp for incoming graduate students  
IBiS Retreat committee, Co-chair  
Qualifying examination committee (Aaron Sue, Morimoto lab)  
Qualifying examination committee (Arianne Rodriguez, Wang lab)  
Qualifying examination committee (Rose Njoroge, Abdulkadir lab)  
Masters thesis examination committee (Kristen Larrichia, Zerega lab)  
Poster judge, Northwestern Undergraduate Research Symposium
- 2013 IBiS Graduate Admissions committee  
Qualifying examination committee (Lilien Voong, Wang lab)  
Qualifying examination committee (Ritika Giri, Carthew lab)  
Poster judge, Northwestern Undergraduate Research Symposium

## COMMUNITY WORK

- 2018 - Mentored Britney Sun from Glenbrook North High School on variation in zinc responses
- 2018 Mentored Ethan Schonfeld from Glenbrook North High School on variation in stress responses
- 2016 - 2017 Mentored Lillian Tushman from Oak Park and River Forest High School on glucose responses  
*Recipient of 3rd place All-Illinois Science Research Competition*
- 2016 - 2017 Mentored Lillian Kameny from Alameda Community Learning Center on etoposide variation
- 2016 - Assistant Den Leader, Pack 922
- 2016 - 2017 American Youth Soccer Organization (AYSO) U8 Head Coach, *The Storm*
- 2015 - Hosted 80 5th grade students from Lincolnwood Elementary School for a day of science
- 2015 - 2016 Mentored Caitlin Westerfield from Evanston Township High School on pathway evolution
- 2015 - 2016 Mentored Ainsley Tran from Oak Park and River Forest High School on iron sensitivity
- 2015 - 2016 American Youth Soccer Organization (AYSO) U8 Head Coach, *Golden Ninjas*
- 2015 - 2016 Mentored Matteo di Bernardo from Evanston Township High School on anthelmintic sensitivity,  
Recipient of Columbia University Scientific Scholars Fellowship
- 2014 - Lecturer on *C. elegans* genetics to the Latin School of Chicago advanced biology class
- 2014 Mentored Lauren Mann from Oak Park and River Forest High School on iodine sensitivity
- 2014 Co-organized with Jacob Cruger nematode collections with the Punahou School, Hawaii
- 2013, 2014 Mentored Jacob Cruger from Latin School of Chicago
- 2009 Organized nematode collections with Vassalboro Community School, Maine