



Erik C. Andersen

Assistant Professor
Northwestern University
Department of Molecular Biosciences

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Major Professional Interests:

Understanding the genetic basis of complex traits and genome evolution using high-throughput phenotyping, molecular genetics, and computational tools

Education:

- 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
- 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

Pre-doctoral Awards, Honors, and Fellowships:

- 2005 - 2006 Anna Fuller Cancer Graduate Research Fellowship
2000 Firestone Medal for Excellence in Undergrad. Research (top Biological Sciences researcher)
1999, 1998 Howard Hughes Medical Institute Summer Research Fellowship
1998 Stanford University Undergraduate research small grant recipient
1996-1998 Robert C. Byrd Honors Scholarship recipient

Post-doctoral Recognitions:

- 2015 - 2019 American Cancer Society Research Scholar
2015 - 2017 March of Dimes Basil O'Connor Research Scholar
2014 - 2018 Pew Scholar in the Biomedical Sciences
2012 - 2013 Howard Hughes Medical Institute Post-doctoral Fellow
2011 - 2012 National Cancer Institute Post-doctoral Fellow
2009 - 2011 Ruth L. Kirschstein National Research Service Award Recipient

Employment:

- 2014 - Member of Northwestern Institute on Complex Systems (NICO)
2013 - Assistant Professor of Molecular Biosciences, Northwestern University
Full Member of the Robert H. Lurie Comprehensive Cancer Center
Member of the Chemistry of Life Processes Institute (CLP)
Preceptor for the Interdisciplinary Biological Sciences Graduate Program (IBiS)
Preceptor for the Northwestern Univ. Interdepartmental Neuroscience Grad. Program (NUIN)
2008 - 2013 Post-doctoral fellow, Princeton University, Princeton, NJ, Advisor: Dr. Leonid Kruglyak
2000 - 2008 Graduate student in Biology Department at Massachusetts Institute of Technology (MIT), Cambridge, MA, Advisor: Dr. H. Robert Horvitz

Research Support:**Present:**

- 2015 - 2019 American Cancer Society Research Scholar Grant
Elucidating the genetic causes of variation in chemotherapy-based toxicity
PI (\$787,658)
- 2015 - 2017 March of Dimes Basil O'Connor Starter Research Grant
Identification of hookworm anthelmintic resistance genes to ameliorate maternal and infant anemia
PI (\$150,000)
- 2014 - 2018 National Institutes of Health (R01 GM107227)
Direct determination of the distribution of fitness effects of spontaneous mutations
consortium PI (\$360,000) with PI Dr. Charlie Baer (University of Florida)
- 2014 - 2018 Pew Charitable Trust, Scholars Program in the Biomedical Sciences
Elucidating the genetics of anthelmintic resistance in nematode-borne neglected tropical diseases
PI (\$240,000)
- 2016 Amazon Web Services
Optimization of computational pipelines to support the C. elegans Natural Diversity Resource
PI (\$3,000)
- 2016 - 2018 National Institutes of Health (R21 AI121836)
Discovery and validation of avermectin resistance loci in free-living and parasitic nematodes
Co-PI (\$275,000) with Dr. Michael Kimber (Iowa State University)
- 2016 Weinberg College Research Innovation Grant, Northwestern University
The Caenorhabditis elegans Natural Diversity Resource - a powerful tool to facilitate biomedical discovery
PI (\$40,000)
- 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
Co-PI (\$37,500) with Dr. Paul Burrige (Northwestern University)

Past:

- 2013 - 2014 American Cancer Society, Institutional Research Grant [93-037-18]
Elucidating the genetic causes of variation in chemotherapy-based toxicity
PI (\$30,000)
- 2013 - 2014 Chemistry of Life Processes, Chairman's Innovation Award
Using perturbations of heavy metal homeostasis to treat nematode-borne neglected tropical diseases
Co-PI (\$28,000) with Dr. Thomas O'Halloran (Northwestern)
- 2016 Data Scientist Initiative, Northwestern University
A novel statistical model to predict the removal of mobile genetic elements
PI (\$20,000)

2014 - 2016 Chicago Biomedical Consortium, Catalyst Grant
Uncovering “missing heritability” in an experimentally tractable model organism
 Co-PI (\$120,000) with Dr. Ilya Ruvinsky (University of Chicago)

Publications undergraduate co-authors in italics, corresponding authors underlined:
h-index=12 (all and since 2010), i10-index=16 (all and since 2010)

1. 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 July 22; [Epub ahead of print] genetics.116.191148
2. 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
3. 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 Jun 14; [Epub ahead of print]
4. 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 Jun 22 [Epub ahead of print] genetics.115.185736
5. Sterken MG, Snoek LB, **Kammenga JE**, **Andersen EC**. (2015)
 The laboratory domestication of *C. elegans*.
Trends in Genetics Mar; 31(5) 224-231
6. 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
7. **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
8. 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
9. 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

10. 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
11. 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
12. **Andersen EC**, Bloom JS, Gerke JP, Kruglyak L. (2014)
The neuropeptide receptor *npr-1* is a major determinant of *Caenorhabditis elegans* growth and physiology.
PLoS Genetics Feb; 10(2):e1004156
13. 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
14. 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.
15. **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
16. **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
17. Raj A, Rifkin SA, **Andersen EC**, van Oudenaarden A. (2010)
Variability in gene expression underlies incomplete penetrance.
Nature 463(7283): 913-918.
18. 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.
19. 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
20. **Andersen EC**, Saffer AM, and Horvitz HR. (2008)
Multiple levels of redundant processes inhibit *Caenorhabditis elegans* vulval cell fates.
Genetics 179(4): 2001-2012.

21. **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.
22. 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.
23. **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.
24. 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:

- 2016 Molecular and Cellular Biology of Helminth Parasites X, Hydra, Greece
Computational Research Day, Northwestern University, Evanston, IL
Evolutionary Biology of *Caenorhabditis* and other nematodes, 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
- 2013 Quantitative genetics workshop, 19th International *C. elegans* meeting, UCLA, Los Angeles, CA
- 2012 Molecular Bioscience Department, Northwestern University, Evanston, IL
Program in Systems Biology, University of Massachusetts Medical School, Worcester, MA
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

- 2012 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

Contributed presentations: (*selected for oral presentation)

- 2015 *Midwest Neglected Infectious Disease meeting, U. of Notre Dame, Notre Dame, IN
- 2015 *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:

Trends in Genetics

Reviewing activity: Academic Journals

Biological Journal of the Linnean Society, BMC Evolutionary Biology, BMC Genetics, BMC Genomics, Cell, Development, EMBO, Genes and Development, G3, Genetics, Genome Research, Heredity, Nature, Nature Scientific Reports, Nature Genetics, PLoS Genetics, PLoS ONE, PNAS, Science, Trends in Genetics

Reviewing activity: Grants and fellowships

- 2014 *Ad hoc* reviewer for Human Frontiers Science Program
- 2014 *Ad hoc* reviewer for National Science Foundation

Professional affiliations and service:

Membership in Professional Societies:

Genetics Society of America, member
Society of Molecular Biology and Evolution, member

Professional service:

- 2015 Organizing committee for the 20th International *C. elegans* meeting
Poster judge, 20th International *C. elegans* meeting - Evolution and Genomics section

- 2015 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

Teaching and advising:

Undergraduate teaching:

- 2016 Biological Sciences 393: *Genetic Analysis* (spring, 17 students)
- 2015 *Guest Lecture*: University of Wisconsin-Madison Biology 675 - *Evolution seminar* (fall, 8 students)
 Biological Sciences 393: *Genetic Analysis* (spring, 12 students) - **new course**
 Biological Sciences 398: *Tutorial in Biology* (spring, Lautaro Cilenti)
 Biological Sciences 399: *Independent Research* (spring, Kreena Patel)
 Biological Sciences 399: *Independent Research* (spring, Hillary Tsang)
 Biological Sciences 399: *Independent Research* (winter, Kreena Patel)
 Biological Sciences 399: *Independent Research* (winter, Hillary Tsang)
- 2014 Biological Sciences 398: *Tutorial in Biology* (fall, Mazeed Aro-Lambo)
 Biological Sciences 398: *Tutorial in Biology* (fall, Kreena Patel)
 Biological Sciences 398: *Tutorial in Biology* (fall, Hillary Tsang)

Graduate teaching:

- 2016 Interdisciplinary Biological Sciences: *Graduate Computational Biology Bootcamp* (fall, 19 students) - www.GitHub.com/AndersenLab/IBiS-Bootcamp
- 2015 Interdisciplinary Biological Sciences 402: *Eukaryotic Molecular Biology* (fall, guest lecture, 22 students)
 Interdisciplinary Biological Sciences: *Graduate Computational Biology Bootcamp* (fall, 22 students) - www.GitHub.com/AndersenLab/IBiS-Bootcamp
 Interdisciplinary Biological Sciences 423: *Ethics of peer review* (spring, guest lecture, 41 students)
- 2014 Interdisciplinary Biological Sciences 402: *Eukaryotic Molecular Biology* (fall, guest lecture, 16 students)
 Interdisciplinary Biological Sciences: *Graduate Computational Biology Bootcamp* (fall, 16 students) - www.GitHub.com/AndersenLab/IBiS-Bootcamp - **new course**
 Interdisciplinary Biological Sciences 423: *Ethics of peer review* (spring, guest lecture, 42 students)
- 2013 Interdisciplinary Biological Sciences 402: *Eukaryotic Molecular Biology* (fall, guest lecture, 24 students)

K-12 advising:

- Caitlin Westerfield, Evanston Township High School (2015-2016 academic year)
 Matteo di Bernardo, Evanston Township 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:

Grace Park (2016 - , Class of 2019), Biological Sciences Major

2016 Posner Fellowship recipient

Austin Chambers (2016 - , Class of 2018), Computer Science Major

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

Mattlyn Cordova (2016 - , Class of 2019), Biological Sciences Major

2016 Program in Biological Sciences Summer Grant recipient

Selina Deiparine (2016 - , Class of 2019), Biological Sciences Major

2016 Summer URG recipient

Sarah Bier (2016 - , Class of 2019), Biological Sciences Major

2016 Summer URG recipient

Nicholas Irons (2015, Class of 2018), Biological Sciences 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, Myriad Academic Scholarship, Thomas Verender Hanks Scholarship

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

2014 Academic URG recipient, 2015 Emmanuel Margoliash Prize for Basic Research,

Winfred Hill Award, James Alton James Scholar, Ellen Taus Scholarship, J.G. Nolan Scholarship

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:

Lucie Bastin-Heline (2014), Master's exchange student, Ecole Normale Superior, Paris, France

Kristen Larrichia (advisor, Nyree Zerega – Program in Plant Biology and Conservation), 2014 - 2015

Nick Timkovich (advisor, Luis Amaral) 2015

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

Kathryn Evans (2016 -), Ph.D. student, Interdisciplinary Biological Sciences Program

Shannon Brady (2015 -), Ph.D. student, Interdisciplinary Biological Sciences Program

Funded by the Biotechnology NIH Training grant (2015-2017)

National Science Foundation Graduate Research Fellowship Program (Honorable Mention)

Recipient of travel award from Union Biometrica (2016)

Daniel Cook (2014 -), Ph.D. student, Driskill Graduate Program

Funded by a National Science Foundation Pre-doctoral Fellowship (2015-2018)

Stefan Zdravljic (2014 -), Ph.D. student, Interdisciplinary Biological Sciences Program

Funded by the Cell and Molecular Basis of Disease NIH Training grant (2015-2017)

Recipient of travel award from Northwestern Center for Genetic Medicine (2016)

Additional graduate rotation students:

Evan Buechel (Spring, 2016), IBiS

Nic Daffern (Spring, 2016), IBiS

Bryan Eder (Winter, 2016), IBiS

Kathryn Evans (Fall, 2015), IBiS

Ryan Abdella (Winter, 2015), IBiS

Erin Baker (Fall, 2014), IBiS

Alex Karge (Spring, 2014), IBiS

Saiorse McSharry (Winter, 2014), IBiS

Amy Nilles (Fall, 2013), IBiS

Ian Wolff (Summer, 2013), IBiS

Ph.D. Thesis committee memberships:

Adam Hockenberry (advisors, Luis Amaral and Michael Jewitt) 2015 -

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 -

Rose Njoroge (advisor, Sarki Abdulkadir – Driskill Graduate Prog., Feinberg School of Medicine), 2014 -

Keila Torre-Santiago (advisor, Sadie Wignall) 2014 - 2016

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 -

Post-doctoral:

Mostafa Zamanian (2014 -), Ph.D. from Iowa State University, advisor Dr. Timothy Day

Recipient of NIH/NIAID K22 Career Transition Award (2016)

Recipient of Northwestern Post-doctoral Travel Award (2016)

Recipient of Anthelmintics Travel Award (2015)

Funded by the Bill and Melinda Gates Foundation (2014)

Bryn Gaertner (2014), Ph.D. from University of Oregon, advisor Dr. Patrick Phillips

Departmental, college, and university service:

2016 Faculty search committee for evolutionary genetics

Departmental Strategic Planning committee

2015 Faculty search committee for genomics

IBiS Retreat committee, Co-chair

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 Departmental Program Review committee

IBiS Graduate Admissions committee

- 2014 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)
- 2013 IBiS Graduate Admissions committee
 Qualifying examination committee (Lilien Voong, Wang lab)
 Qualifying examination committee (Ritika Giri, Carthew lab)

Community work:

- 2016 - 2017 American Youth Soccer Organization (AYSO) U8 Head Coach, *TBD*
- 2014 - Gave lectures on *C. elegans* genetics to the Latin School of Chicago advanced biology class
- 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 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