#### Joshua S. Rest

Stony Brook University
Department of Ecology and Evolution
Stony Brook, NY 11794-5245
631-632-1916 joshua.rest@stonybrook.edu
http://phylogenetic.com
Curriculum Vitae December 2024

#### Appointments

Associate Professor (2014-), Department of Ecology and Evolution, Stony Brook University.

2024-	Chair, Department of Ecology and Evolution
2022-2024	Ecology and Evolution Ph.D. Program Director
2016-2021	Ecology and Evolution M.A. Program Director
2011-	Associate Member, Laufer Center for Physical and Quantitative Biology

Assistant Professor (2008-2014), Department of Ecology and Evolution, Stony Brook University.

#### **Professional Preparation**

University of Chicago	Ecology & Evolution	Postdoctoral Fellow	2004-2008
University of Michigan	Ecology & Evolution	Ph.D.	2004
Drake University	Biology	B.S. summa cum laude	1999

#### Peer-reviewed Publications

Number of times these articles have been cited: 3855 (https://scholar.google.com/citations?user=vXR2PPwAAAAJ)

- 35. Gil-Gomez, A., <u>J.S. Rest.</u> 2024. Wiring between close nodes in molecular networks evolves more quickly than between distant nodes. *Molecular Biology and Evolution*, msae098, https://doi.org/10.1093/molbev/msae098.
- 34. Collier, J.L.\*, <u>J.S. Rest\*</u>, L. Gallot-Lavallée, E. Lavington, A. Kuo, J. Jenkins, C. Plott, J. Pangilinan, C. Daum, I.V. Grigoriev, G.V. Filloramo, A. Vanclova, J.M. Archibald. 2023. The protist *Aurantiochytrium* has universal subtelomeric rDNAs and is a host for mirusviruses. *Current Biology*, 33(23), pp.5199-5207.
  - \*CO-CORRESPONDING AUTHORS, CONTRIBUTED EQUALLY

Coverage in the press: Times Beacon Record, Phys.org, DeeperBlue.com

- 33. Rius, M., <u>J.S. Rest</u>, G.V. Filloramo, A.M.G. Novák Vanclová, J.M. Archibald, J.L. Collier. 2023. Horizontal gene transfer and fusion spread carotenogenesis among diverse heterotrophic protists. *Genome Biology and Evolution*, 15 (3); https://doi.org/10.1093/gbe/evad029.
- 32. O'Hara, N.B., S.J. Franks, N.C. Kane, S. Tittes, <u>J.S. Rest</u>. 2021. Evolution of pathogen response genes associated with increased disease susceptibility during adaptation to an extreme drought in a *Brassica rapa* plant population. *BMC Ecology and Evolution* 21 (1), 1-11.

- 31. Hamann, E., C.S. Pauli, Z. Joly-Lopez, S.C. Groen, <u>J.S. Rest</u>, N.C. Kane, M.D. Purugganan, S.J. Franks. 2020. Rapid evolutionary changes in gene expression in response to climate fluctuations. *Molecular Ecology* 30 (1): 193-206.
- 30. Faktorová D., ... (112 authors including <u>J.S. Rest</u>)... J. Lukeš. 2020. Genetic tool development in marine protists: Emerging model organisms for experimental cell biology. *Nature Methods* 2020:1-14.
- 29. Collier, J.A., <u>J.S. Rest</u>. 2019. Swimming, gliding and rolling toward the mainstream: cell biology of marine protists. *Molecular Biology of the Cell* 30(11): 1245-1248.
- 28. Hanson, S. M., G. Georghiou, M.K. Thakur, W.T. Miller, <u>J.S. Rest</u>, J.D. Chodera, M.A. Seeliger. 2019. What makes a kinase promiscuous for inhibitors? *Cell Chemical Biology* 26(3): 390-399.e5
- 27. Cai, L., Z. Xi, A. M. Amorim, M. Sugumaran, <u>J.S. Rest</u>, L. Liu, C.C. Davis. 2018. Widespread ancient whole-genome duplications in Malpighiales coincide with Eocene global climatic upheaval. *New Phytologist* doi:10.1111/nph.15357
- 26. Franks, S.J., N.C. Kane, N.B. O'Hara, S. Tittes, <u>J.S. Rest.</u> 2016. Rapid genome-wide evolution in *Brassica rapa* populations following drought revealed by sequencing of ancestral and descendent gene pools. *Molecular Ecology* 25: 2622-3631.

Coverage in the press: The Molecular Ecologist, Popular Science, and Huffington Post. Highlighted in a Perspectives article in Molecular Ecology.

- 25. <u>Rest, J.S.</u>, O. Wilkins, W. Yuan, M. Purugganan, J. Gurevitch. 2016. Meta-analysis and meta-regression of transcriptomic response to water stress in Arabidopsis. *The Plant Journal* 85: 548-560.
- 24. O'Hara, N.B., <u>J.S. Rest</u>, S.J. Franks. 2015. Increased susceptibility to fungal disease accompanies adaptation to drought in *Brassica rapa*. Evolution 70(1): 241-248.
- 23. O'Hara, N.B., <u>J.S. Rest</u>, S.J. Franks. 2016. Factors affecting the disease severity of Alternaria blackspot in natural *Brassica rapa* populations on the California and Oregon coasts. *Madroño* 63: 249-257.
- 22. Xi, Z., L. Liu, <u>J.S. Rest</u>, C.C. Davis. 2014. Coalescent versus concatenation methods and the placement of Amborella as sister to water lilies. *Systematic Biology* 63(6): 919-932.
- 21. Martinez, C.A., <u>J.S. Rest</u>, A-R. Kim, M.Z. Ludwig, M. Kreitman, K.P. White, J. Reinitz. 2014. Ancestral resurrection of the Drosophila S2E enhancer reveals accessible evolutionary paths through compensatory change. *Molecular Biology and Evolution* 31(4): 903-916.
- 20. Opulente D.A., C.M. Morales, L.B. Carey, <u>J.S. Rest</u>. 2013. Coevolution trumps pleiotropy: Carbon assimilation traits are independent of metabolic network structure in budding yeast. *PLOS One* 8(1): e54403.
- 19. <u>Rest J.S.</u>, C.M. Morales, J.B. Waldron, D.A. Opulente, J. Fisher, S. Moon, K. Bullaughey, L. Carey, D. Dedousis. 2013. Nonlinear fitness consequences of variation in expression level of a eukaryotic gene. *Molecular Biology and Evolution* 30(2): 448-56.
- 18. Xi, Z., <u>J.S. Rest</u>, C.C. Davis. 2013. Phylogenomics and coalescent analyses resolve extant seed plant relationships. *PLOS One* 8(11): e80870.
- 17. Xi, Z., Y. Wang, R.K. Bradley, M. Sugumaran, C.J. Marx, <u>J.S. Rest</u>, C.C. Davis. 2013. Massive mitochondrial gene transfer in a parasitic flowering plant clade. *PLOS Genetics* 9(2): e1003265.

- 16. Xi, Z., R.K. Bradley, K.J. Wurdack, K.M. Wong, M. Sugumaran, K. Bomblies, <u>J.S. Rest\*</u>, C.C. Davis. 2012. Horizontal transfer of expressed genes in a parasitic flowering plant. *BMC Genomics* 13: 227.
  - \*CO-CORRESPONDING AUTHOR.

Highly accessed article, coverage in the press: The Economist, Scientific American, Times Beacon Record, Daily Mail, Washington Post, and Harvard Gazette.

- 15. <u>Rest, J.S.</u>, K. Bullaughey, G.P. Morris, W.H. Li. 2012. Contribution of transcription factor binding site motif variants to condition-specific gene expression patterns in budding yeast. *PLOS One* 7(2): e32274.
- 14. Jiang, Y., I. Lucas, D.J. Young, E.M. Davis, T. Karrison, <u>J.S. Rest</u>, M.M. LeBeau. 2009. Common fragile sites are characterized by histone hypoacetylation. *Human Molecular Genetics* 18: 4501-4512.
- 13. M.E. Bradley, <u>J.S. Rest</u>, W.S. Li, and N.B. Schwartz. 2009. Sulfate activation enzymes: Phylogeny and association with pyrophosphatase. *Journal of Molecular Evolution* 68: 1-13.
- 12. Brown, J.W., <u>J.S. Rest</u>, J. Garcia-Moreno, M.D. Sorenson, D.P. Mindell. 2008. Strong mitochondrial DNA support for a Cretaceous origin of modern avian lineages. *BMC Biology* 6(6).
- 11. Qiu, Y.-L., L. Li, B. Wang, Z. Chen, V. Knoop, M. Groth-Malonek, O. Dombrovska, J. Lee, L. Kent, J.S. Rest, G. F. Estabrook, T. A. Hendry, D. W. Taylor, C. M. Testa, M. Ambros, B. Crandall-Stotler, R. J. Duff, M. Stech, W. Frey, D. Quandt, and C. C. Davis. 2006. The deepest divergences in land plants inferred from phylogenomic evidence. *Proceedings of the National Academy of Sciences of the United States of America* 103: 15511-15516.
- 10. Qiu, Y.-L., O. Dombrovska, J. H. Lee, L.B. Li, B. A. Whitlock, F. Bernasconi-Quadroni, <u>J. S. Rest</u>, C. C. Davis, T. Borsch, K. W. Hilu, S. S. Renner, D. E. Soltis, P. S. Soltis, M. J. Zanis, J. J. Cannone, R. R. Gutell, M. Powell, V. Savolainen, L. W. Chatrou, M. W. Chase. 2005. Phylogenetic analyses of basal angiosperms based on nine plastid, mitochondrial, and nuclear genes. *International Journal of Plant Science* 166: 815-842.
- 9. Sun X., J.M. Fontaine, <u>J.S. Rest</u>, E.A. Shelden, M.J. Welsh, and R. Benndorf. 2004. Interaction of human HSP22 (HSPB8) with other small heat shock proteins. *Journal of Biological Chemistry* 279: 2394-2402.
- 8. Fontaine, J.M., <u>J.S. Rest</u>, M.J. Welsh, and R. Benndorf. 2003. The sperm outer dense fiber protein is the 10th member of the superfamily of mammalian small stress proteins. *Cell Stress and Chaperones* 8: 62-69.
- 7. Rest, J.S. and D.P. Mindell. 2003. SARS associated coronavirus has a recombinant polymerase and coronaviruses have a history of host-shifting. *Infection, Genetics and Evolution* 3: 219-225.
- 6. Rest, J.S. and D.P. Mindell. 2003. Retroids in Archaea: phylogeny and lateral origins. *Molecular Biology and Evolution* 20: 1134-1142.
- 5. <u>Rest, J.S.</u>, J.C. Ast, C.C. Austin, P.J. Waddell, E.A. Tibbetts, J.M. Hay, and D.P. Mindell. 2003. Molecular systematics of primary reptilian lineages and the tuatara mitochondrial genome. *Molecular Phylogenetics and Evolution* 29: 289-297.

- 4. Tucker, P.K. RM. Adkins, and <u>J.S. Rest.</u> 2003. Differential rates of evolution for the ZFY-related zinc finger genes, Zfy, Zfx and Zfa in the mouse genus *Mus. Molecular Biology and Evolution* 20: 999-1005.
- 3. Dimmic, M, <u>J.S. Rest</u>, D. Mindell and R. Goldstein. 2002. rtREV: an amino acid substitution matrix for inference of retrovirus and reverse transcriptase phylogeny. *Journal of Molecular Evolution* 55: 65-73.
- 2. Meshnick S.R., P.A. Hossler, K.S. Enger, P. Kazanjian, <u>J.S. Rest</u>, D. Mindell, B. Li, C.H. Lee, L.F. Nimri, J.L. Carter, C.B. Beard, L. Huang. 2001. Distribution of DHPS mutations among ITS subtypes of *P. carinii f. sp. hominis. Journal of Eukaryotic Microbiology* Suppl: 126S-128S.
- 1. Liu, Y., Y Shen, <u>J.S. Rest</u>, P. Raymond, and D. Zack. 2001. Isolation and characterization of a zebrafish homologue of the cone rod homeobox gene. *Investigative Ophthalmology and Visual Science* 42: 481-487.

### Book Chapters, Reviews, and Contributions

- Liberles, D.A., M.M. Meyer, <u>J.S. Rest</u>, A.I. Teufel. 2021 Zuckerkandl Prize. *Journal of Molecular Evolution* 90 (1).
- Rest, J.S. 2010. "The expansion of molecular data in evolutionary biology." Pp. 663-666 in Bell, M.A., W.F. Eanes, D.J. Futuyma, and J.S. Levinton (eds.), *Evolution After Darwin: the First 150 Years*. Sinauer Associates, Sunderland.
- Rest, J.S. 2008. "Virology: Principles and Applications. By John Carter and Venetia Saunders." The Quarterly Review of Biology 83(2): 218-219.
- Mindell, D.P., <u>J.S. Rest</u>, and L.P. Villarreal. 2004. "Viruses and the tree of life." Pp. 107-118 in Cracraft, J. and M.J. Donoghue (eds.), *Assembling the Tree of Life*. Oxford University Press, New York.

#### Grants

Gordon and Betty Moore Foundation. Award 12188 (Collier, PI; Rest, Co-Investigator; Subgrant via J. Archibald at Dalhousie University). "Symbiosis methods development: Symbiosis and gene transfer in the lab." \$278,439. 2023-2026.

SBU School of Atmospheric and Marine Sciences, Seed Grant (internal; Collier, PI; Rest, Co-Investigator). "A unique organelle at the interface of the carbon cycle and marine food webs." \$29,478. 2021-2022.

Gordon and Betty Moore Foundation. Award 4982.01 (Collier, PI; Rest, Co-Investigator). "New Genetic Tools for Marine Protists." \$335,343. 2019-2021.

Gordon and Betty Moore Foundation. Award 4982 (Collier, PI; Rest, Co-Investigator). "Screening marine microeukaryotes for their amenability for genetic tool development." \$324,383. 2015-2019.

NIH/NIGMS R01 Award 1R01GM108904-01A1. (Rest, Principal Investigator) \$938,125. "Fitness and modularity of stochastic variation in protein expression levels." 2014-2019

#### Awards

Dean's Award for Excellence in Service by a Graduate Program Director (2024) Godfrey Excellence in Teaching Award (2021)

#### Professional Service

- Tenure reviewer for an external promotion file at a peer institution
- 2022- Associate Editor, Frontiers in Molecular BioSciences, Molecular Evolution Section.
- 2018- Associate Editor, Journal of Molecular Evolution
- 2016- Book Review Consultant, Quarterly Review of Biology
- 2003- External Reviewer: Science, Genome Research, Molecular Biology and Evolution, BMC Genomics, PLOS One, Genomics, Gene, Journal of Molecular Evolution, Cladistics.

### Equity Related Service

Equity in Grad Education (EGE) Cons
-------------------------------------

2020-2023 SBU-Bard Prison Initiative, Participant

2016-2019 Women in GeoSciences, Steering Committee

### Teaching - Undergraduate

- Bioinformatics and Computational Biology. Developed Lecture and Lab. Annually 2009 present.
  - o AWS Academy Educator, Certified 2022
  - o Approved for online delivery, 2022
- Evolution; co-taught with Wiens (2009,2011); Futuyma (2013,2015); Hollister (2017, 2018, 2019); Vitek (2020); Beaupre (2021,2022)
- First year seminar: The riskiness and awesomeness of sequencing your own personal genome (2022)

#### Teaching – Graduate Lectures and Seminars

- Graduate Discussion Seminars: Origin of Species (2022); Phylogenomics (2017); Next-Generation Sequencing in Ecology & Evolution (2013); Evolution of Biological Networks (2008)
- Bioinformatics seminars in Graduate Molecular Genetics. Annually 2009 2022.
- Phylogenetics seminars in Principles of Evolution. Annually 2014 2022.

#### Postdoctoral Advisees

2024- Ben Leyland (co-advised with Jackie Collier)

2019-2021 Anbarasu Karthikaichamy (co-advised with Jackie Collier)

2020-2021 Mariana Rius (co-advised with Jackie Collier)

#### Doctoral and Master's Advisees

2024- Allyson Sheneman (Master's)

2021-2022 David Carlson. "How does the repeated evolution of functional asexuality impact patterns of deleterious variation in *Oenothera*?" (Doctoral)

2020-2021 Michael Horowitz (Master's; Chemistry; co-advised with J. Collier)

2018- Alejandro Gil Gomez. "Evolution of antibiotics and their targets: phylogenetics, rates, interactions, and natural history." (Doctoral)

- 2018-2021 Mariana Rius. "Evolutionary origins, regulation, and function of carotenoid biosynthesis in the marine heterotrophic eukaryote, *Aurantiochytrium limacinum*." (Doctoral; co-advised with J. Collier)
- 2016-2022 Keffy Kehrli. Using computational techniques to analyze the tempo and mode of gene expression evolution. (Graduate Program in Genetics)
- 2008-2015 Christopher Morales. "Gene regulation and interaction in the *Saccharomyces cerevisiae* genome." (Doctoral; Graduate Program in Genetics; Turner Fellow)
- 2008-2015 Dana Opulente. "Network evolution: Network topologies of carbon assimilation in generalists and specialists." (Doctoral)
- 2012-2014 Niamh O'Hara. "Genetics and evolution of plant response to pathogens in a changing environment." (Doctoral; co-advised with S. Franks)
- 2009-2014 Aman Gill. "The impact of host range evolution on population dynamics in the aphid *Uroleucon ambrosiae.*" (Doctoral, co-advised with D. Futuyma)
- 2009-2014 John Waldron. "Evolution of gene expression: Characterizing recent divergence and phenotypic integration at two fundamental levels on the road from genotype to phenotype." (Master's)
- 2011-2013 Julius Fisher. "Detecting the evolution of control coefficients of metabolic enzymes in the sphingolipid biosynthesis pathway." (Master's)

### Dissertation Committees (not including advisees; E&E program unless indicated)

- 30. Helen Ridout (Interdepartmental Doctoral Program in Anthropological Sciences; 2023-)
- 29. Carlos Morantes Ariza (2023-)
- 28. Alexander Kwakye. "Genomics of local adaptation in Gasteroteus aculeatus" (Genetics; 2023-)
- 27. Lingjie Liu. "Probabilistic methods for predicting local rates of transcription elongation from nascent RNA sequencing data." (Genetics; 2022-2024; Chair)
- 26. Paul Donat "Comparative Genomics in Clades Emerging as Sex Chromosome Evolution Models."
- 24. Alexis Brown "Adaptive Evolution of Neuroauditory Specialization." (2022-2024; Chair) and Longevity in Chiroptera." (2022-2024; Chair)
- 23. William Thomas. "Shrinking Shrews: evolution and molecular mechanisms of a unique winter strategy." (2022-2023)
- 25. Nicolette Sipperly. "Flowering time: life history evolution and the role of variation in floral development genes." (2021-2024; Chair)
- 22. Eram Kabir (Bioengineering M.S.) "Tuberculosis: Mce3R Binding Site Analysis." (2021-2022)
- 21. Maxwell Shapiro, Applied Mathematics and Statistics. "A Computational Approach to Viral Coevolution with Host DNA Deaminases." (2021)
- 20. Laraib Malik, Computer Science. "Algorithms for improving quantification accuracy in reference based and de novo transcriptomics." (2020)
- 19. Oleksandra Romanyshyn, Biomedical Engineering. "Multiscale synthetic control of multicellularity and drug resistance in yeast." (2019-2022)
- 18. Alyssa Liguori, "Population dynamics in the rocky intertidal zone: Acclimation and adaptation to extreme abiotic conditions in the copepod *Tigriopus californicus*." (2019-2020).
- 17. Avi Srivastava, Computer Science. "Efficient quantification of bulk and droplet-based single-cell RNA-sequencing data." (2019)

- 16. Tianyu Li, "Evolvability of sexual dimorphism in life history traits of D. melanogaster." (2017-)
- 15. Laurel Yohe, "Vomeronasal evolution in bats." (2016-2017)
- 14. Frank Celeste, Graduate Program in Genetics. "The Emergence of Drug Tolerance in Cancer Cell Populations" (2016-2020)
- 13. Jeewoen Shin, Applied Mathematics and Statistics. "Evolution of complexity in gene regulatory networks during host-parasite coevolution." (2016)
- 12. Fangfei Li, Applied Mathematics and Statistics. "Evolutionary dynamics of two-step beneficial mutations via a double-barcoding system." (2016-2020)
- 11. Jason O'Rawe, Graduate Program in Genetics. "Whole genome sequencing of a three generation pedigree." (2015-2016)
- 10. Evgeny Brud. "The population genetics of female meiotic drive." (2014-2018)
- 9. Meng Lin, Graduate Program in Genetics. "Genetic architecture of height and skin pigmentation in southern African populations." (2014-2017)
- 8. Ying Cai, Graduate Program in Molecular and Cellular Biology. "Effects of the yeast RNA-binding protein Whi3 on the CLN3 mRNA and other targets." (2013)
- 7. Jennifer Rollins. "The genetics of growth in threespine stickleback." (2013-2017)
- 6. Yifeng Xu, Graduate Program in Molecular and Cellular Biology. "Transcriptional regulation of IME1 and middle meiotic genes during meiosis in *Saccharomyces cerevisiae*." (2013-2016)
- 5. Spencer Koury. "Genetic variation and adaptive evolution in membrane physiology." (2012-2017)
- 4. Omar Warsi. "Studying evolutionary adaptations along the different axis of an organism's niche and measuring correlated responses along other axes." (2011-2014)
- 3. Loretta Au, Department of Applied Math and Statistics. "Sequence space exploration:
  Understanding protein interaction specificity through computational and theoretical methods."
  (2010-2014)
- 2. Joseph Lachance, Graduate Program in Genetics. "Life after beanbag genetics: Theoretical and empirical studies on epistasis and penetrance." (2010)
- 1. Nicole Lashbrook. "Phylogenomic analysis of sex-dependent gene expression to assess alternative models of evolution in relation to sex." (2008-2011)

## Undergraduate/ Postbaccalaureate Research Advisees (year started)

- 2024 Georgia (Demi) Uwechue
- 2022 Pasquale Matera, Natalie Sokolow
- 2021 Simon Yatskar
- 2020 Whitney Wong, Priya Aggarwal, Injun Choi
- 2019 Xegfred Lou Quidet, Bingyuan Zhu, Michael Horowitz, Jordan Chee, Zain Ahmed
- 2018 Alan Na, Gene Yang, Jennifer Yuen, Gil Pagaspas, Sharon Li
- 2017 Scott Lavington, Gene Yang, Zhaorong Li, Nina Gu, Eric Jiang, Ariana Ambrosio, Alexander Miles, Brian Yang
- 2016 Kyle Pacia, Christopher Washer, Sunil Deochand, Tuya Yokoyama, Alejandro Gomez
- 2015 Robert Pfingsten, Jakub Micko, Yianni Babatsikos
- 2014 Levi Mangarin, Shin-young Ko, Issac Heon, Faith Conroy, Isaac Rozenberg, Lingling Lou, Chris Esposito, Max Lee
- 2013 Judy Wong, Kash Bandaralage, Hira Tahir, Alex Gromatsky, Zhifan Yang

- 2012 Kumar Sugandhakumar, Bart Massi, Clinton Wizelius, Xueying Zhang
- 2011 Michael Katz, Fiorella Tapia-Ortiz(Bridges to Doctorate Program), Yajie Zhang
- 2010 Dominic Dabrowski, Jenny Abraham, Raghib Siddiqui
- 2009 Angela Liu, Ishpreet Chawla, Goeff Bolen, Jason O'Rawe
- 2008 Linder Oloo, Seungjae Moon

#### High School Research Advisees

2019-2020 Faye Held, Dylan D'Agate	
------------------------------------	--

2018-2019 James Rogers, Alexander Rodriguez (Regeneron Science Talent Search, Top 300)

2015-16 Emily McDermott (2016 Intel Science Talent Search, Semifinalist)

2011-12 Syndi Barish

2009 Demetri Dedousis

## ${\bf Undergraduate\ Honors\ Thesis-Reader}$

2024 Saaya Patel, Megan McNamara

2022 Jason Yoo

2021 Samy Sasoun

2020 Clara Tucker, Artan Berisha

2017 Jasmine Walker

2015 Katiuska Daniela Pulgar Prieto

## Major University Service

2024	Undergraduate Biology Director Search Committee, Chair
2023	Laufer Center Faculty Search Committee
2021-	Initiative for Maximizing Student Development (IMSD) Advisory Board
2018	COACHE Working Group on Tenure
2014-	Co-advisor, Stony Brook University International Genetically Engineered Machine team
2012	Office of the Vice President for Research Genomics Core Facility Advisory Committee
2011-2014	Co-Coordinator, Evolutionary Functional Genomics Seminar Series
2011-2014	Co-Lead and Search Committee, Genomics Interdisciplinary Faculty Cluster Hire
2010-	Faculty Advisor, Freewheel Collective Student Bicycle Club

## Graduate Program Evaluation and Revision

2022-2024	Led development of Policies and Procedures Manual and Student Handbook
	Graduate Program Assessment Coordinator
	Graduate Program Development and Assessment Committee, Lead
2021-2022	Led revision of Ecology and Evolution Graduate Program Bylaws
2016-2018	Established major changes to existing program (E&E M.A.); via Grad Council, Provost,
	SUNY, State Ed. Dept.
2013-2014	Genetics Program Curriculum Review Committee
2009	Committee member to establish a new concentration (Applied Evolution) in an existing
	program (E&E M.A.)

# Graduate Program Funding and Outreach

2020-2021	Organizer/Lead, Giving Day drive to benefit E&E Graduate Student Research
2019-2021	Organizer/Lead, E&E Graduate Program Facebook and Twitter feeds
2018,2019	Secured Master's Recruitment Enrichment Funds to advertise M.A. program
2014	Key participant; NSF Research Traineeship (NRT) Proposal. "Big Data, Sparse Data:
	Integrated analysis of environmental, ecological and genomic data to promote
	sustainability in a changing world"

# Graduate Program Leadership and Administrative Service

Graduate Pr	ogram Leadership and Administrative Service
2024	Graduate Assistance in Areas of National Need Proposal Development, Collaborator
2022-2024	E&E Ph.D. Program Director
2020	E&E Graduate Program Retreat Organizer/Lead
2016-2021	E&E M.A. Graduate Program Director
2011-2016	M.A. Admissions Committee
'10,'13,'14	PhD Admissions Committee
2011-2014	E&E Graduate Program Executive Committee
2011,2014	Graduate Program Awards Coordinator
2010,2013	E&E Preliminary Exam Committee
2009-2012	Entering Student Advisory Committee (E&E); Head, 2011-2012