

## Travis Cole Glenn

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### EDUCATION

- Ph.D. 1997. Zoology -- ecology, evolution, and behavior emphasis, University of Maryland, College Park, MD. Dissertation Title: *Genetic bottlenecks in long-lived vertebrates*.  
M.S. 1990. Natural Resources -- wildlife science emphasis, School of Natural Resources, University of Michigan, Ann Arbor, MI. Thesis Title: *Genetic variation in Michigan elk (*Cervus elaphus*)*.  
B.S. 1989. Animal Ecology with Honors & Distinction -- biotechnology emphasis, Iowa State University, Ames, IA.

### PROFESSIONAL EMPLOYMENT

- 2023-present Interim Department Head, Environmental Health Science, University of Georgia  
2021-present Director, Institute of Bioinformatics, University of Georgia  
2007-present Assoc. / Professor, Environmental Health Science, University of Georgia  
2019-2020 Interim Director, Institute of Bioinformatics, University of Georgia  
2016-2019 Associate Director, Institute of Bioinformatics, University of Georgia  
2007-2012 Georgia Genomics Facility Faculty Director, University of Georgia  
2002-2007 Assoc. Director, Institute for Biol. Research and Training, Univ. of South Carolina  
1998-2007 Adjunct Asst./Assoc. Professor, Dept. of Biological Sciences, Univ. of South Carolina  
1998-2007 Asst./Assoc. Research Scientist, Savannah River Ecology Lab, University of Georgia  
1997-1998 Post-doctoral Researcher, Dept. of Biology, University of South Carolina  
1992-1996 Pre-doctoral Research Fellow, Smithsonian Institution, Washington, DC

### Adjunct Faculty Appointments and Affiliations (unpaid)

- Current: Anhui Normal University, Wuhu, China, UGA: Institute of Bioinformatics, Dept. of Genetics, Faculty of Infectious Diseases, Biomedical & Health Sciences Institute, Savannah River Ecology Lab, Interdisciplinary Toxicology Program  
Previous: Dept. of Biol. Sci, Univ. of Alabama, School of the Environment, Univ. of South Carolina; UGA: Center for Contextual Genetics and Prevention Science, Center for the Collaborative Study of Gene-Social Environment Transactions, Odum School of Ecology, Warnell School of Forestry & Natural Resources

### PUBLICATIONS (numbered chronologically in each category – Articles, Notes, Books, etc.)

17,857 citations, h-index = 54, i10-index = 172 at Google Scholar, as of 9/14/2023

For updated citation count, see: <http://scholar.google.com/citations?hl=en&user=UdTPdOUAAAAJ>

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*postdoctoral*, *graduate student* and *undergraduate or high school student* authors are indicated; status during research (not time of publication)

### Peer-reviewed Articles (Notes are numbered & listed separately):

#### Manuscripts available as preprints (in review for publication):

- de Paula Baptista, R., R. Xiao, Y. Li, T. C. Glenn and J. C. Kissinger. New T2T assembly of *Cryptosporidium parvum* IOWA annotated with reference genome gene identifiers. doi: 10.1101/2023.06.13.544219  
PMID: 37398184

Kolli, R., T. Glenn, R. B. Bringolf, W. Henderson, B. Cummings, and J. Kenneke. Submitted. Changes in CPG-methylation of the vitellogenin 1 promoter in adult male zebrafish after exposure to 17 $\alpha$ -ethynylestradiol (EE2). Environmental Science & Technology

Manuscripts Accepted, In Press, or On-line Early

Publications In Print (or final on-line version is available for on-line only publications)

162. Kim, J.S., K. C. Williams, R. A. Kirkland, R. Schade, K. G. Freeman, C. R. Cawthon, A. W. Rautmann, J. M. Smith, G. L. Edwards, T. C. Glenn, P. V. Holmes, G. de Lartigue, C. B. de La Serre. 2023. The gut-brain axis mediates bacterial driven modulation of reward signaling. *Molecular Metabolism* 75:101764. <https://doi.org/10.1016/j.molmet.2023.101764>
161. Ostezan, A., E. M. Prenger, L. Rosso, B. Zhang, R. M. Stupar, T. Glenn, M.A. R. Mian, and Z. Li. A chromosome 16 deletion conferring a high sucrose phenotype in soybean. 2023. *Theoretical and Applied Genetics*. 136 (5):109
160. Frederick, J. C., A. T. Thompson, P. Sharma, G. Dharmarajan, I. Ronai, R. Pesapane, R. C. Smith, K. D. Sundstrom, J. I. Tsao, H. C. Tuten, M. J. Yabsley, and T. C. Glenn. 2023. Phylogeography of the blacklegged tick *Ixodes scapularis* throughout the United States identifies candidate loci for differences in vectorial capacity. *Molecular Ecology* 32:3133-3149. <https://doi.org/10.1111/mec.16921> PMID: 36912202
159. Spaulding, F., J. F. McLaughlin, K. G. McCracken, T. C. Glenn, K. Winker. 2023. Population genomics indicate three different modes of divergence and speciation with gene flow in the green-winged teal duck complex. *Molecular Phylogenetics and Evolution* 182:107733. <https://doi.org/10.1016/j.ympev.2023.107733>
158. De, S., S. B. Kingan, C. Kitsou, D. M. Porti, S. D. Foor, J. C. Frederick, V. S. Rana, N. S. Paulat, D. A. Ray, Y. Wang, T. C. Glenn, and U. Pal. 2023. A high-quality *Ixodes scapularis* genome advances tick science. *Nature Genetics* 55:301-311. online Jan. 2023. doi: 10.1038/s41588-022-01275-w
157. Ribeiro, J. M. C., N. J. Bayona-Vásquez, K. Budachetri, D. Kumar, J. C. Frederick, F. Tahir, B. C. Faircloth, T. C. Glenn, and S. Karim. 2023. A draft genome of the Gulf Coast tick, *Amblyomma maculatum*. *Ticks and Tick-borne Diseases* 14 (2): 102090, online Nov. 2022; doi: 10.1016/j.ttbdis.2022.102090
156. Moore, L. A., J. W. Finger, D. L. Haskins, R. M. Elsey, S. B. Castleberry, T. C. Glenn, C. H. Jagoe, and I. L. Brisbin. 2022. Tissue distribution of mercury in the bodies of wild American alligators (*Alligator mississippiensis*) from a coastal marsh in Louisiana (USA). *Archives of Environmental Contamination and Toxicology* 83:13–20.
155. Spaulding, F., J. F. McLaughlin, T. C. Glenn, K. Winker. 2022. Estimating movement rates between Eurasian and North American birds that are vectors of avian influenza (AI). *Avian Diseases* 66(2):1-10. <http://doi.org/10.1637/aviandiseases-d-21-00088> PMID:35510470
154. Durso, A. M., T. J. Kieran, T. C. Glenn, and S. J. Mullin. 2022. Comparison of three methods for measuring dietary composition of plains hog-nosed snakes. *Herpetologica* 78(2):119-132. doi: 10.1655/HERPETOLOGICA-D-21-00023
153. Beaudry, M. S., J. C. Thomas, R. Baptista, A. Sullivan, W. Norfolk, A. Devault, J. Enk, T. J. Kieran, O. Rhodes, A. Perry, L. Rose, N. J. Bayona-Vásquez, A. Oladeinde, E. Lipp, S. Sanchez, T. C. Glenn. 2021. Escaping the fate of Sisyphus: Assessing resistome hybridization baits for antimicrobial resistance gene capture. *Environmental Microbiology* 23(12):7523-7537. doi 10.1111/1462-2920.15767 [bioRxiv: 10.1101/2021.07.20.452950v1] PMID: 34519156
152. Thomas, J. C. IV, T. J. Kieran, J. W. Finger Jr., N. J. Bayona-Vásquez, A. Oladeinde, J. Beasley, J. C. Seaman, J. V. McArthur, O. E. Rhodes Jr., and T. C. Glenn. 2021. Unveiling the gut microbiota and resistome of wild cotton-mice, *Peromyscus gossypinus*, from heavy metal and radionuclide-contaminated

- sites in the Southeastern US. *mSphere* 9(1): e00097-21. doi: 10.1128/Spectrum.00097-21 PMID: 34431703
151. Kieran, T. J., E. R. L. Gordon, A. Z. Riveron, C. N. Ibarra-Cerdena, **T. C. Glenn**, and C. Weirauch. 2021. Ultraconserved elements reconstruct the evolution of Chagas disease-vectoring kissing bugs (Reduviidae: Triatominae). *Systematic Entomology* 46(3):725-740. doi: 10.1111/syen.12485
  150. Beaudry, M. S., J. Wang, T. J. Kieran, J. Thomas, N. J. Bayona-Vásquez, B. Gao, A. Devault, B. Brunelle, K. Lu, J.-S. Wang, O. E. Rhodes, Jr., and **T. C. Glenn**. 2021. Improved microbial community characterization of 16S rRNA via metagenome hybridization capture enrichment. *Frontiers in Microbiology* 12:644662. doi: 10.3398/fmicb.2021.644662. PMID: 33986735
  149. Kolchanova S., A. Komissarov, S. Kliver, A. Mazo-Vargas, Y. Afanador, J. Velez-Valentín, R. V. de la Rosa, S. Castro-Marquez, I. Rivera-Colon, A. J. Majeske, W. W. Wolfsberger, T. Hains, A. Corvelo, J.-C. Martinez-Cruzado, **T. C. Glenn**, O. Robinson, K.-P. Koepfli, and T. K. Oleksyk. 2021. Molecular phylogeny and evolution of Amazon parrots in the Greater Antilles. *Genes* 12(4):608. doi: 10.3390/genes12040608
  148. Louha, S., R. Meinersmann, and **T. Glenn**. 2021. Whole genome genetic variation and linkage disequilibrium in a diverse collection of *Listeria monocytogenes* isolates. *Plos One* 16(2):e0242297. doi: 10.1371/journal.pone.0242297
  147. Louha, S., R. Meinersmann, Z. Abdo, M. Berrang, and **T. Glenn**. 2020. An open-source program (Haplo-ST) for whole-genome sequence typing shows extensive diversity of *Listeria monocytogenes* in outdoor environments and poultry processing plants. *Applied and Environmental Microbiology*. 87:e02248-20. doi: 10.1128/AEM.02248-20
  146. Calderón, J. M., D. Erazo, T. J. Kieran, N. L. Gottdenker, C. León, J. Cordovez, F. Guhl, **T. C. Glenn**, C. González. 2020. How microclimatic variables and blood meal sources influence *Rhodnius prolixus* abundance and *Trypanosoma cruzi* infection in *Attalea butyracea* and *Elaeis guineensis* palms. *Acta Tropica* 212: 105674. doi: 10.1016/j.actatropica.2020.105674.
  145. Kieran, T. J., S. J. Goodman, J. W. Finger Jr., J. C. Thomas, M. T. Hamilton, T. D. Tuberville, and **T. C. Glenn**. 2020. Microbiota of four tissue types in American alligators (*Alligator mississippiensis*) following extended dietary selenomethionine exposure. *Bulletin of Environmental Contamination and Toxicology* 105(3): 381-386. doi: 10.1007/s00128-020-02961-3.
  144. McLaughlin, J. F., B. C. Faircloth, **T. C. Glenn**, and K. Winker. 2020. Divergence, gene flow, and speciation in eight lineages of trans-Beringian birds. *Molecular Ecology* 29(18): 3526-3542. doi: 10.1111/mec.15574.
  143. Whitby, M. D., T. J. Kieran, **T. C. Glenn**, and C. Allen. 2020. Agricultural pests consumed by common bat species in the United State corn belt: the importance of DNA primer choice. *Agriculture, Ecosystems and Environment* 303: 107105. doi: 10.1016/j.agee.2020.107105.
  142. Díaz-Jaimes, P., N. Bayona-Vásquez, E. Escatel-Luna, M. Uribe-Alcocer, C. Pecoraro, B. Frazier, **T. Glenn**, and M. Babucci. 2020. Population genetic divergence of Bonnethead sharks *Sphyrna tiburo* in the western North Atlantic: implications for conservation. *Aquatic Conservation: Marine and Freshwater Ecosystems* 31(1):83-98. doi: 10.1002/aqc.3434.
  141. Rhodes, O. E. Jr., F. Bréchignac, C. Bradshaw, T. G. Hinton, C. Mothersill, J.A. Arnone III, D. P. Aubrey, L. W. Barnthouse, J. C. Beasley, A. B. Alquati, L. R. Boring, A. L. Bryan, K. A. Capps, B. Clément, A. Coleman, C. Condon, F. Coutelot, T. DeVol, G. Dharmarajan, D. Fletcher, W. Flynn, G. Gladfelder, **T. C. Glenn**, S. Hendricks, E. Hobbie, K. Ishida, T. Jannik, L. Kapustka, U. Kautsky, R. Kennamer, W. Kuhne, S. Lance, G. Lapytev, C. Love, L. Manglass, N. Martinez, T. Mathews, A. McKee, W. McShea, S. Mihok, G. Mills, B. Parrott, B. Powell, E. Pryakhin, A. Rypstra, D. Scott, J. Seaman, C. Seymour, M. Shkvyria, A. Towns, A. Ward, D. White, M. Wood, and J. Zimmerman. 2020. Integration of ecosystem science into radioecology: A consensus perspective. *Science of the Total Environment* 740:140031
  140. Kieran, T. J., N. Bayona-Vásquez, C. P. Varian, A. Saldaña, F. Samudio, J. E. Calzada, N. L. Gottdenker, and **T. C. Glenn**. 2020. Population genetics of two chromatic morphs of the Chagas disease vector

- Rhodnius pallescens* Barber, 1932 in Panamá. *Infection, Genetics and Evolution* 84:104369. doi: 10.1016/j.meegid.2020.104369.
139. Ghosh, A., R. N. Platt, M. Vandewege, R. Tabbasum, C.-Y. Hsu, S. Isberg, D. Peterson, J. W. Finger Jr., T. J. Kieran, **T. C. Glenn**, J. Gongora, and D. A. Ray. 2020. Identification and characterization of microRNAs (miRNAs) and their transposable element origins in the saltwater crocodile, *Crocodylus porosus*. *Analytical Biochemistry* 602: 113781. doi: 10.1016/j.ab.2020.113781. PMID:32485163
  138. Thomas, J. C. IV, A. Oladeinde, T. J. Kieran, J. W. Finger Jr., *N. J. Bayona-Vasquez*, J. C. Cartee, J. C. Beasley, J. C. Seaman, J. V. McArthur, O. E. Rhodes Jr., and **T. C. Glenn**. 2020. Co-occurrence of antibiotic, biocide, and heavy metal resistance genes in bacteria from metal and radionuclide contaminated soils at the Savannah River Site. *Microbial Biotechnology* 13(4):1179-1200. doi: 10.1111/1751-7915.13578 PMID:32363769
  137. Lourenco, J. M., T. J. Kieran, D. S. Seidel, **T. C. Glenn**, M. F. da Silveira, T. R. Callaway, and R. L. Stewart. 2020. Comparison of the ruminal and fecal microbiotas in beef calves supplemented or not with concentrate. *PLOS ONE*, 15(4): e0231533. doi:[10.1371/journal.pone.0231533](https://doi.org/10.1371/journal.pone.0231533)
  136. Louha, S., D. A. Ray, K. Winker and **T. C. Glenn**. 2020. A high-quality genome assembly of the North American Song Sparrow, *Melospiza melodia*. *G3* 10(4):1159-1166. doi: 10.1534/g3.119.400929. PMID: 32075855
  135. *Caballero, J. R. I.*, J. P. Ata, K.A. Leddy, **T. C. Glenn**, T. J. Kieran, N. B. Klopfenstein, M.-S. Kim, and J. E. Stewart. 2020. Genome comparison and transcriptome analysis of the invasive brown root rot pathogen, *Phellinus noxius*, from different geographic regions reveals potential enzymes associated with degradation of different wood substrates. *Fungal Biology* 124(2):144-154. doi: [10.1016/j.funbio.2019.12.007](https://doi.org/10.1016/j.funbio.2019.12.007) PMID:32008755
  134. Ghosh, A., M. G. Johnson, A. B. Osmani, S. Louha, *N. J. Bayona-Vásquez*, **T. C. Glenn**, J. Gongora, R. E. Green, S. Isberg, R. D. Stephens, and D. A. Ray. 2020. A high-quality reference genome assembly of the saltwater crocodile, *Crocodylus porosus*, reveals patterns of selection in Crocodylidae. *Genome Biology and Evolution* 12(1):3635-3646. doi:[10.1093/gbe/evz269](https://doi.org/10.1093/gbe/evz269). PMID: 31821505
  133. Kieran, T. J., K. M. H. Arnold, J. C. Thomas IV, C. P. Varian, A. Saldaña, J. E. Calzada, **T. C. Glenn**, and N. L. Gottdenker. 2019. Regional biogeography of microbiota composition in the Chagas disease vector *Rhodnius pallescens*. *Parasites & Vectors* 12(1):504. doi: 10.1186/s13071-019-3761-8. PMID: 31665056
  132. Oladeinde, A., K. Cook, S. Lakin, R. Woyda, Z. Abdo, T. Looft, K. Herrington, G. Zock, J. Lawrence, J. Thomas, M. Beaudry, and **T. Glenn**. 2019. Horizontal gene transfer and acquired antibiotic resistance in *S. Heidelberg* following *in vitro* incubation in broiler ceca. *Applied and Environmental Microbiology* 85(22):e01903-19. DOI: [10.1128/AEM.01903-19](https://doi.org/10.1128/AEM.01903-19) PMID: 31471306.
  131. Prenger, E. M., A. Ostezan, M. A. R. Mian, R. M. Stupar, **T. Glenn**, Z. Li. 2019. Identification and characterization of a fast-neutron-induced mutant with elevated seed protein content in soybean. *Theoretical and Applied Genetics* 132(11): 2965-2983. <https://doi.org/10.1007/s00122-019-03399-w>
  130. *Bayona-Vásquez\**, *N. J.*, **T. C. Glenn\***, T. J. Kieran, T. W. Pierson, S. L. Hoffberg, P. A. Scott, K. E. Bentley, J. W. Finger, S. Louha, N. Troendle, P. Diaz-Jaimes, R. Mauricio, B. C. Faircloth. 2019. Adapterama III: Quadruple-indexed, double/triple-enzyme RADseq libraries (2RAD/3RAD). *PeerJ* 7:e7724. <http://doi.org/10.7717/peerj.7724> PMID: 31616583; cited preprint available at: <https://doi.org/10.1101/205799> \*equal co-authorship
  129. **Glenn, T. C.**, T. W. Pierson, *N. J. Bayona-Vásquez*, T. J. Kieran, S. L. Hoffberg, J. C. Thomas IV, D. E. Lefever, J. W. Finger Jr., B. Gao, X. Bian, S. Louha, R. T. Kollí, K. Bentley, J. Rushmore, K. Wong, T. I. Shaw, M. J. Rothrock Jr., A. M. McKee, T. L. Guo, R. Mauricio, M. Molina, B. S. Cummings, L. H. Lash, K. Lu, G. S. Gilbert, S. P. Hubbell, and B. C. Faircloth. 2019. Adapterama II: Universal amplicon sequencing on Illumina platforms (TaggiMatrix). *PeerJ* 7:e7786. <http://doi.org/10.7717/peerj.7786> PMID: 31616589; cited preprint available at: <https://doi.org/10.1101/619544>
  128. **Glenn, T. C.**, R. Nilsen, T. J. Kieran, J. G. Sanders, *N. J. Bayona-Vasquez*, J. W. Finger Jr., T. W. Pierson, K. E. Bentley, S. L. Hoffberg, S. Louha, F. J. García-De León, M. A. D. R. Portilla, K. D. Reed,

- J. L. Anderson, J. K. Meece, S. E. Aggrey, R. Rekaya, M. Alabady, M. Bélanger, K. Winker, and B. C. Faircloth. 2019. Adapterama I: Universal stubs and primers for 384 unique dual-indexed or 147,456 combinatorially-indexed Illumina libraries (iTru & iNext). *PeerJ* 7:e7755. <http://doi.org/10.7717/peerj.7755> PMID: 31616586; cited preprint available at: <https://doi.org/10.1101/049114>
127. Wamucho A, Unrine JM, Kieran TJ, **Glenn TC**, Schultz CL, Farman M, Svendsen C, Spurgeon DJ, Tsyusko OV. 2019. Genomic mutations after multigenerational exposure of *Caenorhabditis elegans* to pristine and sulfidized silver nanoparticles. *Environmental Pollution* 254(Pt B):113078. doi: 10.1016/j.envpol.2019.113078. Epub 2019 Aug 24. PMID: 31479814
  126. Winker, K., **T. C. Glenn**, J. Withrow, S. G. Sealy, and B. C. Faircloth. 2019. Speciation despite gene flow in two owls (*Aegolius* spp.): Evidence from 2,517 ultraconserved element (UCE) loci. *The Auk: Ornithological Advances*. 136 (2): 1 April 2019, ukz012. <https://doi.org/10.1093/auk/ukz012>
  125. Erazo, D., N. L. Gottdenker, C. González, F. Guhl, M. Cuellar, T. J. Kieran, **T. C. Glenn**, J. D. Umeña, and J. Cordovez. 2019. Generalist host species drive Trypanosoma cruzi vector infection in oil palm plantations in the Orinoco region, Colombia. *Parasites & Vectors* 12:274. <https://doi.org/10.1186/s13071-019-3519-3> PMID: 31138275
  124. Lourenco, J.M., T. R. Callaway, T. Kieran, **T. C. Glenn**, J. C. McCann, R. L. Stewart, Jr. 2019. Analysis of the rumen microbiota of beef calves supplemented during the suckling phase. *Frontiers in Microbiology*. <https://doi.org/10.3389/fmicrob.2019.01131> PMID:31191476
  123. Finger, J. W. Jr., M. T. Hamilton, M. D. Kelley, N. Stacey, **T. C. Glenn**, and T. D. Tuberville. 2019. Examining the effects of chronic selenium exposure on traditionally used stress parameters in juvenile American alligators (*Alligator mississippiensis*). *Archives of Environmental Contamination and Toxicology*. 77 (1):14-21. PMID:30976886
  122. Kolli, R. T., **T. C. Glenn**, B. T. Brown, S. P. Kaur, L. M. Barnett, L. H. Lash, and B. S. Cummings. 2019. Bromate-induced changes in p21 DNA methylation and histone acetylation in renal cells. *Toxicological Sciences* 168(2): 460-473. PMID:30649504
  121. Oliveros, C. H., D. J. Field, D. T. Ksepka, F. K. Barker, A. Aleixo, M. J. Andersen, P. Alström, B. W. Benz, E. L. Braun, M. Braun, G. A. Bravo, R. Brumfield, R. T. Chesser, S. Claramunt, J. Cracraft, A. M. Cuervo, E. P. Derryberry, **T. C. Glenn**, M. G Harvey, P. A. Hosner, L. Joseph, R. T. Kimball, A. L. Mack, C. M. Miskelly, A. T. Peterson, M. B. Robbins, F. H. Sheldon, L. F. Silveira, B. T. Smith, N. D. White, R. G. Moyle, and B. C. Faircloth. 2019. Earth history and the passerine superradiation. *Proceedings of the National Academy of Sciences, USA*. 116(16):7916-7925. <https://doi.org/10.1073/pnas.1813206116> PMID: 30936315
  120. Scott, P. A., **T. C. Glenn**, and L. J. Rissler. 2019. Formation of a recent hybrid zone offers insight into the geographic puzzle and maintenance of species boundaries in musk turtles. *Molecular Ecology* 28(4):761-771. <https://doi.org/10.1111/mec.14983>. PMID: 30578692
  119. Kieran, T. J., E. R. L. Gordon, M. Forthman, R. Hoey-Chamberlain, R. T. Kimball, B. C. Faircloth, C. Weirauch, and **T. C. Glenn**. 2019. Insight from an ultraconserved element bait set designed for hemipteran phylogenetics integrated with genomic resources. *Molecular Phylogeny and Evolution* 130:297-303. <https://doi.org/10.1016/j.ympev.2018.10.026> PMID: 30359745
  118. Hoffberg, S. L., N. J. Troendle, **T. C. Glenn**, O. Mahmud, S. Louha, D. Chalopin, J. L. Bennetzen, and R. Mauricio. 2018. A high-quality reference genome for the invasive mosquitofish *Gambusia affinis* using a Chicago library. *G3: Genes, Genomes, Genetics* 8(6): 1855-1861. <https://doi.org/10.1543/g3.118.200101>
  117. Winker, K., **T. C. Glenn**, and B. C. Faircloth. 2018. Ultraconserved elements (UCEs) illuminate the population genomics of a recent, high-latitude avian speciation event. *PeerJ* 6:e5735. <https://doi.org/10.7717/peerj.5735>
  116. Kanine, J. M., E. M. Kierepka, S. B. Castleberry, M. T. Mengak, N. P. Nibbelink and **T. C. Glenn**. (2018). Influence of landscape heterogeneity on the functional connectivity of Allegheny Woodrats (*Neotoma magister*) in Virginia. *Conservation Genetics* 19(5):1259-1268. doi: 10.1007/s10592-018-1093-4



115. Finger, J. W. Jr., M. T. Hamilton, M. D. Kelley, Y. Zhang, A. N. Kavazis, T. C. Glenn, and T. D. Tuberville. 2018. Dietary selenomethionine administration and its effects on the American alligator (*Alligator mississippiensis*): oxidative status and corticosterone levels. *Archives of Environmental Contamination and Toxicology* 75(1):37-44. <https://doi.org/10.1007/s00244-018-0530-1>
114. Oladiende, A., E. Lipp C.-Y. Chen, R. Muirhead, T. Glenn, K. Cook, and M. Molina. 2018. Transcriptome changes of *Escherichia coli*, *Enterococcus faecalis*, and *Escherichia coli* O157:H7 laboratory strains in response to photo-degraded DOM. *Frontiers in Microbiology* 9:882 (doi: 10.3389/fmicb.2018.00882)
113. Scott, P. A., T. C. Glenn, and L. J. Rissler. 2018. Resolving taxonomic turbulence and uncovering cryptic diversity in the musk turtles (*Sternotherus*) using robust demographic modeling. *Molecular Phylogenetics and Evolution* 120:1-15. [published on-line 2017, doi: 10.1016/j.ympev.2017.11.008]
112. Platt, R. N. II, B. C. Faircloth, K. A. M. Sullivan, T. J. Kieran, T. C. Glenn, M. W. Vandewege, T. E. Lee Jr., R. J. Baker, R. D. Stevens, and D. A. Ray. 2018. Conflicting evolutionary histories of mitochondrial and nuclear genomes in New World *Myotis* bats. *Systematic Biology* 67(2):236-249. <https://doi.org/10.1093/sysbio/syx070>. PMID: 28945862
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**Genetic Resource, Primer, and Technical Notes** (all peer-reviewed, most by a single editor, some with multiple reviewers):

\***Bold number** – indicates a resource of substantial importance (hundreds of markers)

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- N1. **Glenn, T. C.** and S. J. Glenn. 1994. Rapid elution of DNA from agarose gels using polyester plug spin inserts (PEPSIs). *Trends in Genetics* 10(10): 344.

#### Books or Journal Special Issues

4. **Glenn, T. C.**, A. Moussalli, B. C. Faircloth (guest eds). 2016. Special Issue: Sequence Capture. *Molecular Ecology Resources* Vol. 16, Issue No. 5, September, 2016.
3. Densmore, L. D. and **T. C. Glenn** (guest eds). 2008. Special Issue: Crocodylian Genetics and Biology. *Journal of Experimental Zoology (Ecological Genetics and Physiology)* Vol. 310A, Issue No. 10.
2. Densmore, L. D. and **T. C. Glenn** (guest eds). 2002. Special Issue: Molecular Evolution of the Crocodylia. *Journal of Experimental Zoology (Molecular and Developmental Evolution)* Vol. 295, Issue No. 4.
1. Andrews, R. D., N. Bock, W. Funke, **T. Glenn**, R. Goode, M. Long, M. O'Connor, M. Sells, and D. Sievers. 1993. Iowa fur harvester education: student manual. Iowa Department of Natural Resources, Des Moines, IA. 147pp.

#### Proceedings, Book Chapters, and Other publications (\* = rigorous peer review, equivalent to journal publication)

13. Heyduk K., J. D. Stephens, B. C. Faircloth, and **T. C. Glenn**. 2016. Targeted DNA Region Re-sequencing. Pages 43-68 in *Field Guidelines for Genetic Experimental Designs in High-Throughput Sequencing* (Aransay AM and JLL Trueba, eds.). Springer International Publishing, Switzerland. doi: 10.1007/978-3-319-31350-4\_3.
12. Finger Jr., J. W., P. C. Thomson, U. R. Bagal, C. Moran, **T. C. Glenn**, L. G. Miles, M. S. Khatkar, J. Gongora, A. L. Adams, S. Benedict, T. J. Kieran and S. R. Isberg. 2015. Extending crocodile genetic selection tools. Rural Industries Research and Development Corporation Publication No. 15/051.
11. Hinton, T. G., D. Coughlin, Y. Yi, **T. Glenn**, and J. Zimbrick. 2011. Reproductive effects from chronic, multigenerational, low dose rate exposures to radiation. Chapter 19, pages 219-232 in: Mothersill C. E., V. Korogodina, and C. B. Seymour (eds.), *Radiobiology and Environmental Security*, NATO Science for Peace and Security Series C: Environmental Security, Pp 219-232. DOI 10.1007/978-94-007-1939-2\_19, Springer Science+Business Media B.V.
10. Densmore, L. D. III and **T. C. Glenn**. 2008. 3<sup>rd</sup> International workshop on crocodylian genetics and genomics. *Journal of Experimental Zoology Part A: Ecological Genetics and Physiology* 310A(10):569-570.
9. Dueck, L. A., J. A. Fowler, C. S. Hagen, and **T. C. Glenn**. 2005. Genetic discrimination of *Spiranthes cernua* species complex in South Carolina. *Proceedings of the 2<sup>nd</sup> International Orchid Conservation Congress*, Sarasota, Florida. *Selbyana* 26(1,2): 145-154.
8. **Glenn, T. C.** 2002. DNA tools and resources for crocodylian research. P211 *In Proceedings of the 16<sup>th</sup> Working Meeting of the Crocodile Specialist Group of the Species Survival Commission of IUCN – The World Conservation Union*, Gland, Switzerland.

7. Oleksyk T.K., M. H. Smith, **T. C. Glenn**, J. R. Purdue, C. H. Jagoe, and M. W. Smith. 2002. Radioactivity and Genetic Diversity. *In* Populations of *Apodemus flavicollis* from Chernobyl, Ukraine. International Radioactivity Conference, Monaco.
6. Jagoe, C. H., A. J. Majeske, T. K. Oleksyk, **T. C. Glenn**, and M. H. Smith. Radiocesium concentrations and DNA strand breakage in two species of amphibians from the Chernobyl exclusion zone. Proceedings of the International Congress on the Radioecology and Ecotoxicology of Continental and Estuarine Environments, September, 2001, Aix en Provence, France.
5. Oleksyk, T., S. Gashchak, **T. Glenn**, C. Jagoe, J. Purdue, O. Tsyusko, O. Zalisky, and M. Smith. 2001. Distribution of <sup>137</sup>Cs among individuals in fish and mammal populations in Chernobyl. Pp. 431-440. *In*: V. Glygalo and A. Nosovsky (eds.). Scientific and Technical Aspects of International Cooperation in Chernobyl. Vyscha shkola, Kyiv.
- \*4. Davis, L. M., T. C. Glenn, R. M. Elsey, I. L. Brisbin Jr., W. E. Rhodes, H. C. Dessauer and R. H. Sawyer. 2001. Genetic structure of six populations of American alligators: A microsatellite analysis. Pages 38-50 *In* Crocodylian Biology and Evolution, G. C. Grigg, F. Seebacher, and C. E. Franklin (eds.), Surrey Beatty and Sons, Australia.
- \*3. Glenn, T. C., R. S. Ojerio, W. Stephan, and M. J. Braun. 1997. Microsatellite DNA loci for genetic studies of cranes. pages 36-45 *In* Proceedings of the 7<sup>th</sup> North American Crane Workshop. R. P. Urbanek and D.W. Stahlecker, eds. North American Crane Working Group, Grand Island, Nebraska. 262pp.
2. **Glenn, T. C.** and M. J. Braun. 1992. Toward the elimination of contamination from ancient DNA amplifications: use of 2'-Deoxyuridine-5'-triphosphate and Uracil DNA Glycosylase to eliminate carryover PCR products. Ancient DNA Newsletter. 1(2):28-31.
1. **Glenn, T. C.** 1991. Animal rights and animal welfare are not equivalent. Conservation Biology 5(4):436-437.

#### Preprints (evermore; not going to update to get through review)

1. Beaudry, M. S., J. C. Frederick, M. E. J. Lott, W. A. Norfolk, T. C. Glenn, and E. K. Lipp. 2021. Effectiveness of an ozone disinfecting and sanitizing cabinet to decontaminate a surrogate virus for SARS-CoV-2 on N-95 masks. preprint available at medRxiv: <https://www.medrxiv.org/content/10.1101/2020.11.04.20226233v1>

#### **PATENTS**

Glenn T.C., K. L. Jones, S. L. Lance, G. J. Szalai, & M. R. Felder. 2008. Source tagging and normalization of DNA for parallel DNA sequencing, and direct measurement of mutation rates using the same. U.S. Patent Filed March 31, 2008. Incorporates Provisional Patents 60/909,010 & 60/909,003 filed March 30, 2007. Patent abandoned June 2010, due to commercial limitations & other time commitments.

#### **RESEARCH GRANTS AND CONTRACTS (\*\* = PI, \* = UGA subaward PI)**

##### Active Contracts and Grants

*CAPE: Center for Applied Epidemiology*. Pathogen Genomics Center of Excellence. Centers for Disease Control → Georgia Department of Public Health. Tonia Parrott (GA DPH), Justin Bahl (UGA), et al. CDC #not yet available. 10/2022-09/2027. (~\$125k direct/yr. to TCG lab). Role – Key Personnel.

*Community scaled viral sequence analysis and phylodynamics of SARS CoV 2 using wastewater-based informatics*. Centers for Disease Control and Prevention. Erin Lipp (UGA), T. Glenn (UGA), J. Bahl (UGA), S. Sanchez (UGA), and N. Cleveland (GA Dept. Public Health). CDC 75D30121C11163. 06/2021 – 12/2023. \$949,898. (\$244,345 direct to TCG lab). Role – co-PI.

\**Capturing the genomic variation present in Cryptosporidium and cryptosporidiosis*. National Institutes of Health. J. Kissinger (UGA), T. Glenn (UGA), A. Kahn (NIH → USDA), and M. Grigg (NIH). 1R01AI148667-01A1 08/2020 – 07/2024. \$1,841,678. (\$559,248 direct to TCG lab). Role – MPI.

\**Next-Generation DNA sequencing training for biomedical researchers in Alaska*. Subcontract of Alaska INBRE4: One Health, NIH 3P20 GM103395 (PI Barnes). T. Glenn and B. Faircloth. 08/2019 – 07/2024. \$180,000. Role: PI of the bioinformatics training subcontract.

*Collaborative Research: Enhancers and the convergent evolution of limb reduction in squamates*. National Science Foundation. C. Infante (UAZ), B. Faircloth (LSU), D. Menke (UGA), and T. Glenn (UGA). IOS 1754950 07/2018 – 07/2023. \$1,263,668 (\$118,007 to TCG lab). Role – co-PI.

### Current Service Center Funding

\**The EHS DNA lab genotyping and marker development services* are available to collaborators and the scientific community on a cost-reimbursement basis [similar to small subcontracts, but uses a different accounting mechanism]. Since being established in 2008, the EHS DNA lab has conducted >\$800k in reimbursed research services, averaging >\$130k/yr. since FY13. Funding allows not only completion of specific service but also research and development of new services. Students are frequently employed by these projects. Additional services have been directly billed to the Georgia Genomics Facility, thus bypassing the EHS service center.

### Previous Research Awards (while at UGA-EHS)

*Prevalence of and risk factors for community-associated carriage of antimicrobial resistant Enterobacteriaceae and antimicrobial resistance genes*. Centers for Disease Control and Prevention. E. Ottesen, T. Glenn, A. Handel, E. Lipp, and M. Welton. 09/20 – 08/22. CDC 75D30120C09496. \$699,118 (\$125,894 direct to TCG lab). Role – co-investigator.

\**Direct genome-wide detection of carcinogen induced alkyl DNA adducts by Single Molecule Real Time Sequencing*. National Institutes of Health. W. Czaja, T. Glenn, and C. Bergman. 1R21ES02854901A1 06/2018 – 05/2022. \$412,500 (\$68,796 direct costs, \$103,194 total to TCG lab). Role – co-investigator (PI of UGA subaward).

\**Next-Generation DNA sequencing training for biomedical researchers in Alaska*. Subcontract of Alaska INBRE4: One Health, NIH P20 GM103395. T. Glenn, N. Bayona-Vasquez, and B. Faircloth. 04/2021 – 07/2021. \$60,000. Role: PI of the bioinformatics training subcontract.

\*\**New approaches to improve the efficiency, sensitivity, specificity and standardization of sampling, DNA isolation, shotgun library preparation, and microbiome DNA enrichment and analysis in healthcare settings*. T. Glenn, D. Green, S. Sanchez. Centers for Disease Control and Prevention 75D30118C02889. 9/30/18 – 03/31/20. \$509,880. [\$351,253 direct] Role- PI.

\**Functional interactions between the gut microbiome and arsenic exposure*. National Institutes of Health, K. Lu (PI; UNC), T. Glenn (UGA), and R. Fry (UNC). NIH – R01 ES024950. 05/2015 – 11/2019. \$2,281,375. Role – co-investigator (PI of UGA subaward)

\**Next-Generation DNA sequencing training for biomedical researchers in Alaska*. Subcontract of Alaska INBRE3: Environmental Agents and Disease, NIH P20 GM103395. T. Glenn, K. Winker, and B. Faircloth. 05/2015 – 05/2019. \$189,000. Role: PI of the bioinformatics training subcontract.

\**Dimensions: Testing the potential of pathogenic fungi to control the diversity, distribution, and abundance of tree species in a neotropical forest community*. National Science Foundation. S. Hubbell, B. Faircloth, G. Gilbert, M. Saunders, and T. Glenn. DEB-1136626, 03/2012 – 09/2018. \$1,941,923. Role – Co-PI (PI of UGA subaward)

\*\**Characterization of antimicrobial resistance in the poultry production environment*. USDA ARS 58-6040-7-026, T. Glenn. 08/2017 – 09/2018. \$22,000. Role – PI.

\*\**Ultraconserved elements of fish and snakes*. Southeastern Louisiana University. T. Glenn. -3/15/17 – 05/14/18. \$22,289.40. Role - PI

\**Development of a Next Generation Sequencing Assay for Detecting and Genotyping Tick-borne Disease Pathogens*. Marshfield Clinic Research Foundation. A. Schotthoefer, T. Fritsche, J. Meece, S. Shukla, T. Glenn, B. Faircloth. 11/2014 – 10/2017. \$50,000. Role – Co-PI (PI of UGA subaward).



- \*\*Single Nucleotide Polymorphism Genotyping.** Departamento de Acuicultura, CICESE, Ensenada, Baja California, Mexico. T. Glenn. 11/10/16 – 07/10/17. \$15,000. Role – PI.
- \*\*Mitochondrial DNA, Microsatellite Loci and SNPs from *Seriola ialandi*.** CICESE, Baja California, Mexico. T. Glenn. 11/31/16 – 11/10/17. \$12,000. Role – PI.
- \*\*Mitochondrial DNA, Microsatellite Loci and SNPs from *Seriola rivoliana*.** CIBNOR, La Paz, Baja California, Mexico. T. Glenn. 11/15/16 – 11/10/17. \$13,250. Role – PI.
- \*\*EAGER Collaborative Research: Using ultraconserved elements (UCEs) as genomic markers to study shallow levels of evolutionary divergence.** National Science Foundation, DEB-1242241. T. Glenn. 06/15/2012 – 06/14/2014. \$15,670 to UGA (\$42,830 total of collaborative research with K. Winker and B. Faircloth). Role – UGA PI.
- Building the Framework of Biodiversity Science: Next Generation Phylogenomics.** Smithsonian Institution Grand Challenge Awards. M. Braun, K. Wurdack, W. Wcislo, J. Maldonado, K. Helgen, S. Brady, M. Cummings, T. Glenn, B. Faircloth, R. Brumfield, E. Braun, J. McCormack, N. Crawford, N. White. \$100,000. 01/2012 – 07/2014. Role – Co-PI.
- PIRE: Genetics of invasive species exchanged between the Southeastern U.S. and China, Taiwan & Hong Kong.** National Science Foundation (OISE-0730218) R. Mauricio, K. Myhre, T. Glenn, R. Walcott. Role – Co-PI. \$1,499,772, 2009 – 08/2014 (total project \$2,498,016, 09/2007 – 08/2014)
- The crocodylian triumvirate: a genome draft for the Indian Gharial.** Ray, Green, Glenn, McCarthy, Schmidt, Peterson, Densmore, Brochu, Braun, Pollock, Jarvis, Hoffmann, Sawyer, Gongora, Abzhanov. National Science Foundation. MCB-052500. \$40k. Role: Senior Personnel.
- \*Schistosoma haematobium genome sequencing to develop DNA markers in support of the SCORE program.** SCORE program (funded by the Bill and Melinda Gates Foundation). PI - T. C. Glenn \$15,820, 12/2008 – 12/2013.
- Phylogenetic utility of ultra-conserved elements for the avian tree of life.** Smithsonian Next Generation Sequencing Small Grants Program. M. Braun, N. White, T. Glenn, B. Faircloth, R. Brumfield, E. Braun, J. McCormack, N. Crawford. 10/2011 – 06/2013. \$10,000. Role – Co-PI.
- Species tree prediction in the cloud.** Amazon Web Services in Education Research Grant. NG Crawford, BC Faircloth, **TC Glenn**. 2010. \$7,500.

#### Previous Research Awards (while at UGA-EHS, initiated at UGA-SREL)

- \*\*Effects of Low Dose Radiation on Gene Expression in Medaka Fish.** US Department of Energy Joint Genome Institute Laboratory Sequencing Program. **TC Glenn**, OV Tsyusko, TG Hinton, D Grigoriev, OV Moskalenko, and J Zimbrick. 90,000 ESTs and >1,200,000 454 sequences approved. June 07- Sept 10.
- \*\*Collaborative Research: The Evolution of Heterostylous Breeding Systems in Populations of *Oxalis alpina* in the Sky Islands of the United States and Mexico.** National Science Foundation (DEB 0614208 – Pop & Evol cluster), **PI - T. C. Glenn** (O. Tsyusko added as co-PI after award), \$140,363, 10/06 – 08/11, in collaboration with S. Weller & A. Sakai, separately funded for \$357,920
- The bioavailability, toxicity, and trophic transfer of manufactured ZnO nanoparticles: a view from the bottom.** USEPA-NCER and NSF-NIOSH Nanotechnology Research Grants Investigating Environmental and Human Health Effects of Manufactured Nanomaterials B. Jackson, A. Neal, T. Glenn, P. Williams, and P. Bertsch. \$363,380. 10/05 – 02/09.
- \*\*Genetic Effects of Radiation Exposure on Amphibian Populations from Chornobyl Exclusion Zone, U.S.** Civilian Research and Development Foundation, Cooperative Grants Program. ~\$59,000 (\$7,500 to US collaborators). M. Bondarkov, O. Tsyusko, & T. C. Glenn. (T Glenn = PI on US portion of grant, linked to Ukrainian project but funds administered separately). 09/07-09/09.
- \*\*Gene Expression Resources for *Peromyscus*.** US Department of Energy Joint Genome Institute Laboratory Sequencing Program. T Glenn, G Szalai, J Glenn, M Felder, et al. 100,000 ESTs approved. June 07- Dec. 08. 2 Million additional ESTs approved – June 08 – May 09.

*Transgenerational Effects of Chronic Low-Dose Irradiation in a Medaka Fish Model System*, U.S. Dept. of Energy Low Dose Program. JD Zimbrick, TG Hinton, TC Glenn, H. Mitani, R Ullrich, J Bedford, and M Weil. \$1,033,705.00 total Direct Costs, \$365,846 UGA subcontract, 8/05 – 12/08.

\**Development of Peromyscus (Deer Mouse) Genomics*. National Institutes of Health. MJ Dewey, TC Glenn, R Bullard-Dillard, and J Chen. \$1,180,000, UGA subcontract PI \$399,563. 8/1/04-7/30/08.

*Bioavailability of Metals in Two Former Ash Settling Basins from Coal-fired Power Plants: Capping vs. Natural Attenuation*. Georgia Power. PL Williams, B Jackson, C Jagoe, and T Glenn. \$300,000, 01/05 – 12/07.

#### Previous Research Awards (while at UGA-SREL)

*The role of metal contamination in the proliferation of antibiotic resistance in coastal water-borne pathogens*. NOAA – Oceans and Human Health Program, R Stepanauskus, JV McArthur, TC Glenn, CH Jagoe, ME Frischer JA Gooch, and C Tuckfield. \$534,311, 10/04 – 9/07.

*Species Identification and Conservation Genetics of Moxostoma robustum : Molecular Genetic Protocol Development and Application*. Georgia Power Co. C.J. Nairn & T. C. Glenn. \$48,970. 3/06 – 02/07.

*Radioactive Contaminants, Antioxidants, and Mutation: A Comparative Analysis of Birds, Flies and Humans of Chernobyl*. University of South Carolina Environmental Research Initiative Committee, TA Mousseau et al. \$39,776.

\*\**DNA research to support management of American alligators in Louisiana*. Louisiana Department of Wildlife and Fisheries, Fur and Refuge Division, TC Glenn (PI). \$30,000. 7/1/03-6/30/06.

*Molecular Phylogeny of North American Spiranthes Orchids*. American Orchid Society. L Dueck, TC Glenn and C Hagen. \$6,450, 01/04-12/05.

\**Peromyscus Laboratory Models for Biomedical Research*. National Institutes of Health, MJ Dewey, W Dawson, and T Glenn. \$541,875, 7/02 – 6/05, renewed through 04/06.

\**Development and Use of Transgenic Caenorhabditis elegans to Measure Bioavailability of Metals and Mutagenicity in Contaminated Media*. Idaho National Environmental and Engineering Laboratory, LDRD program. A Stormberg, PL Williams, CH Jagoe and TC Glenn, UGA subcontract \$22,100, 01/01/04 – 9/31/04.

*BAC Library Resource Proposal – Peromyscus maniculatus*. National Institutes of Health, MJ Dewey and TC Glenn. Assigned High Priority, 9/03, BAC Library - CHORI-233.

\*\**Use of the Diamondback Terrapin (Malaclemys terrapin) as a biological indicator for chemical pollution of South Carolina estuaries*. National Oceanic and Atmospheric Administration – T Glenn and SJ Hauswaldt \$49,500, 6/01 – 9/04.

*The Peromyscus Genome Project: Development of a Core Research Group*. South Carolina Biomedical Research Infrastructure Network- Collaborative Research Program, MJ Dewey, R Bullard-Dillard, and T Glenn. \$75,000, 5/03 – 8/04.

\*\**Developing a cDNA Library for American Alligators*. University of Georgia Research Foundation, Faculty Research Grant. TC Glenn \$7,128. 1/03 – 1/04.

*A quantitative approach to risk assessment: analysis of genetic changes in organisms inhabiting contaminated environments*. PI - R. Sawyer, Department of Energy - \$228,387, 1997 – 2002.

*Development of Bioindicators of Environmental Mutagens*. South Carolina Commission on Higher Education. PI - Beth Krizek, Co-investigators – T. Glenn. & C. Jagoe. \$85,010 funded. Jan. 2000 – June 2001.

\*\**Investigation of Sandhill Crane subspecies*. Texas A&M Kingsville - \$16,500. 1997-2001. T. Glenn PI

*A proposal to determine contaminant burdens and DNA strand-breakage in clapper rails inhabiting the Troup Creek and LCP salt marsh systems, Brunswick, GA*, funded at \$56,325 by the US Fish and Wildlife Service, with PI - I. Lehr Brisbin, UGA.

*Development of a Bioindicator of Environmental Mutagens*. University of South Carolina - Carolina Venture Fund. With B. Krizek as P.I. \$9,000. May 1999 - August 2000.

Laboratory for the Genetic Diagnosis and Control of Mosquitoes. PI – R. Vogt, Co-PI's J. Quattro, T. Glenn, R. Wilkerson. Department of Defense - \$500,000, 1997 – 2000.

9 additional awards prior to employment at UGA, including a National Science Foundation Dissertation Improvement Grant.

### Previous Service Center Funding

**\*\*The SREL DNA lab genotyping and marker development services** were available to collaborators and the scientific community on a cost-reimbursement basis [similar to small subcontracts, but uses a different accounting mechanism] had ~\$485k of income from 2002-2008.

The Georgia Genomics Laboratory is a core sequencing facility at UGA and had income of ~\$325k in FY08 when Dr. Glenn joined as faculty director, and concluded with income of >\$860k in FY12 (Dr. Glenn's last year as faculty director).

### **SYMPOSIA & WORKSHOPS**

- Online DNA Sequence Analysis Workshops – Analysis of NGS data using CyVerse: 1) NGS Sequencing; 2) Microbiomes; 3) Genome assembly and SNP analysis. For the Alaska INBRE4. June and July 2021. Travis Glenn (UGA), Megan Beaudry (UGA), Julia Frederick (UGA), Amanda Sullivan (UGA), Natalia Bayona-Vasquez (Emory University), and Brant Faircloth (LSU), instructors.
- DNA Sequence Analysis Workshop – Generating and analyzing NGS data for biomedical research. University of Alaska, Fairbanks. May 2019. Travis Glenn, Swarnali Louha, Natalia Bayona-Vasquez, and Brant Faircloth, instructors.
- Illumina DNA Sequence Analysis Workshop – Generating and analyzing NGS data for biomedical research. University of Alaska, Anchorage. May 2017. Travis Glenn & Brant Faircloth, instructors.
- Illumina DNA Sequencing and Sequence Analysis Workshops – Hands on wet-labs making amplicon, genomic, and RADseq libraries (week 1), computational labs to analyze data from the week 1. University of Alaska, Fairbanks. July-August 2015. Travis Glenn & Brant Faircloth, instructors.
- Next-Generation DNA Sequencing Workshop – Background, Project Design, & Data Analysis. University of Alaska, Fairbanks. May 2013. K. Winker (organizer) Travis Glenn & Brant Faircloth, instructors.
- Next-Generation DNA Sequence Analysis. University of Georgia, Institute of Bioinformatics State-of-the-Art Symposium. April, 2013. T. Glenn and J. Kissinger (primary organizers).
- Next-Generation DNA Sequencing Workshop: Project Design, Platform Choice, and Data Analysis Overview. Smithsonian Institution, July, 2011. Travis Glenn & Brant Faircloth, instructors.
- 2<sup>nd</sup> Georgia Genomics Facility and Roche 454 Bioinformatics workshop. University of Georgia, March, 2011. My-Hanh Nguyen and Travis Glenn, instructors.
- Center for Contextual Genetics & Prevention Science symposium, Athens, GA. June, 2010. Travis Glenn, instructor (6 modules), plus additional keynote speakers.
- Georgia Genomics Facility and Roche 454 Bioinformatics workshop. University of Georgia, May, 2010. My-Hanh Nguyen, Ken Jones, and Travis Glenn, instructors.
- 3<sup>rd</sup> International Crocodylian Genetics & Genomics Workshop. Smithsonian Tropical Research Institute, Panama City, Panama, April 2007. Miriam Venegas, Llewellyn D. Densmore, and Travis C. Glenn, organizers.
- International workshop – “Exploring Potential Collaborative Research in Human Health and Ecotoxicology Risks Using Medaka as a Model Organism”, 24-27 March 2004, University of Georgia, T. G. Hinton, T. C. Glenn, and R. N. Winn, organizers.
- 2<sup>nd</sup> International Crocodylian DNA workshop, 7-9 November, 2001. San Diego Zoo, San Diego, CA. Valentine A. Lance, Llewellyn D. Densmore, Lisa M. Davis, and Travis C. Glenn, organizers.

### **PRESENTATIONS**

#### Invited Talks (since joining UGA)

1. *Glenn, T.C.* From Birds in Zoo to Crypto in Your Poo: How Hybridization Capture Can Work for Me & You. CDC & NASA, via zoom to multiple locations. February, 2023.
2. *Glenn, T.C.* One Health Initiatives. University of Connecticut, Storrs, CT. January, 2023.
3. *Glenn, T.C.* From Cranes in Zoo to Crypto in Your Poo: How Hybridization Capture Can Work for Me & You. USDA Parasitology Seminar Series. April, 2021. Zoom to Beltsville, MD.
4. *Glenn, T.C.* From Ticks to Alligators with Flu to Crypto in Your Poo. UGA OneHealth Club. March, 2021.
5. *Glenn, T.C.* What's Up with Coal Ash? RedClay Conference, UGA School of Law, February, 2020.

6. *Glenn, T.C., et al.* Extending the limits of target capture with new systems to evaluate microbiomes, pathogens, and vectors. *Plant and Animal Genomes*. January, 2018. San Diego, CA.
7. *Glenn, T.C.* Adapting parallel sequencing for faster, better, cheaper genetic assays used in environmental science. Smithsonian Conservation Biology Institute's Rock Creek Seminar Series. November, 2017. National Zoo, Washington, DC.
8. *Glenn, T.C.* Bioinformatics challenges and opportunities from sequence capture of pathogens and conserved elements. Institute of Bioinformatics, UGA, Athens, GA. April, 2017.
9. *Glenn, T.C., et al.* Reducing sequence capture costs with universal library preparation methods (Adapterama) and Ultraconserved Element (UCE) bait sets. *Plant and Animal Genomes*. January, 2017. San Diego, CA.
10. *Glenn, T.C., et al.* Easy low-cost Illumina libraries that promote sharing via hierarchical combinatorial tagging. Western Carolina University Big Data workshop. August, 2016. Cullowhee, NC.
11. *Glenn, T.C.* Solving Practical Problems in Public Health with Next-Generation DNA Sequencing. Marshfield Clinic Research Foundation, Marshfield, WI. April 2015.
12. *Glenn, T.C.* Adapterama I: An Integrated Approach for Double-Quadruple Indexed Illumina Libraries for Amplicons, RADseq, and Whole Genomes. Association of Biomolecular Resource Facilities, St. Louis, MO. March 2015.
13. *Glenn, T.C.* Adapterama – Flexible Hierarchical Combinatorial NGS Approaches To Solve Practical Problems in Public Health Using DNA Sequencing. CDC, Atlanta, GA. February 2015.
14. *Glenn, T.C., B.C. Faircloth, J.E. McCormack, D.A. Ray, E.L. Braun, and R.E. Green.* Ultraconserved Elements Provide Orthologous Portals into Tetrapod Genomes Illuminating the Remarkably Slow Evolution of Crocodylian Genomes. Crocodylian Biology Symposium, Society of Integrative & Comparative Biology, Miami, FL. January 2015.
15. *Glenn, T.C.* Adapterama on BadDNA.org – Next-Generation DNA Sequencing Tools for Biologists. College of Charleston, SC. March 2014.
16. *Glenn, T. C.* Crocophylomics: Lessons of the Toothy Sort. Ohio State University, Columbus, OH. October, 2013.
17. *Glenn, T. C.* Scalable DNA Capture and Next Generation DNA Sequencing Approaches to Assess Microbes & Vectors. Colorado State University, Fort Collins, CO. September, 2013.
18. *Glenn, T. C.* New Flexible Approaches for Next-Generation DNA Assays & the Opportunities They Create for New Statistical Tests of Genomic Data. Univ. Alabama, Birmingham, AL. May 2013.
19. *Glenn, T. C.* Scalable Approaches to Transition DNA Assays to Next Generation Sequencing. Promega Corporation, Madison, WI. November, 2012
20. *Glenn, T. C.* Next-Generation DNA Sequencing Tools. 4<sup>th</sup> International Workshop on Crocodylian Genetics and Genomics, Darwin, Australia, May, 2012.
21. *Glenn, T. C.* Field Survival Guide to Next-Generation DNA Sequencers. Poultry Diagnostics Research Center, Athens, GA, Feb., 2012
22. *Glenn, T. C.* Novel Mammalian Genomic Tools for Biomedical Research Discovered by Sequencing the Lizard Genome. Greenwood Genetics Center, Greenwood, SC. August, 2011.
23. *Glenn, T. C.* Field Guide to Next-Generation DNA Sequencers. Keynote talk, Next Generation Sequencing: Transformative Technology for Biodiversity Science, National Museum of Natural History, Washington, DC. Co-sponsored by the Food and Drug Administration. April, 2011.
24. *Glenn, T. C.* Crocophylomics: from Faithful Alligators to Alligator Influenza & Beyond. University of Regina, Regina, Saskatchewan, Canada. September, 2010.
25. *Glenn, T. C.* Building on China's Leadership in Genomics: Partnerships & Opportunities. Nanjing University, Nanjing, China. July, 2010.
26. *Glenn, T. C.* Alligator and Crocodile Genome Projects: Using the Panda Blueprint. Anhui Normal University, Wuhu, China. June, 2010.
27. *Glenn, T. C.* Molecular Ecology of Faithful Alligators to Environmental Genomics of Reptiles. Odum School of Ecology, University of Georgia, Athens, GA. January, 2010.
28. *Glenn, T. C.* Lessons in cooperative genomics from alligators, crocodiles, and lizards. Clemson University, Clemson, SC. September, 2009.

29. *Glenn, T. C.* New instruments, paradigms and opportunities in ecological genomics. Anhui Normal University, Wuhu, China. August, 2009.
30. *Glenn, T. C.* New instruments, paradigms and opportunities for comparative and ecological genomics. Department of Genetics, University of Georgia, Athens, GA. January, 2009.
31. *Glenn, T. C.* Bioinformatics opportunities for genomic studies of non-traditional biomedical and environmental model organisms. Institute of Bioinformatics seminar. University of Georgia, Athens, GA. October 2008.
32. *Glenn, T. C.* New opportunities for massively parallel comparative genomics. Ying Xu bioinformatics research group seminar. University of Georgia, Athens, GA. October 2008.
33. *Glenn, T. C.* Tribute to Herb Dessauer: Reptilian Genomics and Biomedical Research. Stowers Institute for Medical Research, Kansas City, Missouri. June 2008.
34. *Glenn, T. C.* A universal approach to leverage comparative full genome information to efficiently elucidate conserved sequence elements. Broad Institute, Boston, Massachusetts. March 2008.
35. *Glenn, T. C., K. Jones, and R. Sawyer.* Challenges and Opportunities in Comparative Reptilian Genomics. Society Integrative & Comparative Biology, San Antonio, Texas. January 2008.
36. *Glenn, T. C.* Model Organisms for the Real World: New Genomic Tools and Approaches to Solve Problems in the Environmental Health Sciences. Department of Environmental Health Science, UGA. August, 2007.
37. *Glenn, T. C. and R. M. Elsey.* Long-term pair bonding in American Alligators assessed using tetranucleotide microsatellites. 3<sup>rd</sup> International Crocodylian Genetics & Genomics Workshop. Smithsonian Tropical Research Institute, Panama City, Panama, April 2007.
38. *Glenn, T. C. & J. L. (Weston) Glenn, & O. V. Tsyusko.* Genomics trifecta: New models, approaches and opportunities. South Carolina INBRE, 3<sup>rd</sup> Bioinformatics Research Symposium, Clemson University, January, 2007.
39. *Glenn, T. C. and J. L. Weston.* Genomics of non-traditional biomedical models: Alligators, Anolis, and Peromyscus. Coastal Carolina University, 20 October 2006.
40. *Glenn, T. C.* Reptilian Genomics: Background and where we're going next. University of Canberra, Australia, 19 May 2006.
41. *Glenn, T. C.* Reptilian Genomics: from multiple paternity to feathered alligators. University of Sydney, Australia, 10 May 2006.
42. *Glenn, T. C.* Emerging resources and opportunities for non-traditional biomedical model organisms: Alligators, Medaka, and Peromyscus. Department of Biological Sciences Seminar Series, Univ. of South Carolina, Columbia, 17 October, 2005.
43. *Glenn, T. C.* Solving conservation problems with DNA technologies: Genetic studies of Alligators, Red Pandas, and Whooping Cranes. Warnell School of Forest Resources Seminar Series, UGA, Athens, GA, 13 October, 2005.
44. *Glenn, T. C.* New animal models to study bioavailable metals and mutation rates. Fort Johnson Marine Science Seminar Series, Charleston, SC. 16 September, 2005.
45. *Glenn, T. C.* New approaches to estimate bioavailable metals and mutation rates. Department of Environmental Health Sciences, University of South Carolina, Columbia, SC. 2 September, 2005.
46. *Glenn, T. C.* American alligators, red pandas, and whooping cranes as models in conservation genetics. Anhui Normal University, Wuhu, China, 29 August 2004.
47. *Glenn, T. C.* Genomic tools for the conservation of crocodylians. 19<sup>th</sup> International Congress of Zoology, Beijing, China, 25 August, 2004.
48. *Glenn, T. C.* Microsatellite DNA loci. Workshop on Exploring Potential Collaborative Research in Human Health and Ecotoxicology Risks Using Medaka as a Model Organism. University of Georgia, 25 March, 2004.
49. *Glenn, T. C.* Alligators, *C. elegans*, and Whooping Cranes as models for genetic risks and genotoxicology. Benedict College, 22 March, 2004.
50. *Glenn, T. C.* Estimating mutation rates in vertebrate genomes: experimental approaches and bioinformatics opportunities. South Carolina BRIN Bioinformatics Meeting, 15 March, 2004.
51. *Glenn, T. C.* Alligators, Red Pandas, and Whooping Cranes as models for genetic risks and genotoxicology. Coastal Carolina University, 18 February, 2004.

52. *Glenn, T. C.* Linking legacies: Using Alligators, Red Pandas, and Whooping Cranes to understand genetic risks and genotoxicology. Wofford College, 6 November, 2003.
53. *Glenn, T. C.* Genetic tools for the conservation and management of Alligators, Red Pandas, and Whooping Cranes. Tall Timbers, 11 April 2003.
54. *Glenn, T. C.* Assessing genetic impacts of environmental contaminants on the Savannah River Site: antibiotic resistance in bacteria, microsatellite mutations in alligators, and new transgenic biomonitors. Bioscience Division, Los Alamos National Lab, 8 March, 2002.
55. *Glenn, T. C.* Modern Conservation Genetics: Tools to Really Help Endangered Species? Western Carolina University, 6 October, 2000.
56. *Glenn, T. C.* Modern Molecular Genetic Tools in Conservation Genetics: Serious Help or Squandered Resources? Texas Tech University, April, 2000.
57. *Glenn, T. C.* DNA workshop for South Carolina State Law Enforcement Division – Forensics section. Columbia, South Carolina. March, 2000.
58. *Glenn, T. C.* 1999. Using DNA to Save an Endangered Species. Earth Day presentation at the National Science Center, Fort Discovery; Augusta, GA, 24 April.
59. *Glenn, T. C.* 1999. Alligators to Whooping Cranes: Development & Use of Molecular Genetic Techniques to Investigate & Solve Environmental Problems. Department of Biology, University of South Carolina Aiken, 26 February.
60. *Glenn, T.C.* and H.C. Dessauer. 1998. Genetic variation of American alligators. Crocodylian Biology and Evolution Conference, Univ. of Queensland, Brisbane, Australia

Representative Presentations & Posters at Meetings (presenter in italics)

- Kolli, R.T., T.C. Glenn* and B.S. Cummings. Bromate Induced Alterations in the Expression of Cyclin-Dependent Kinase Inhibitors via Epigenetic mechanisms. Poster submitted for the 55<sup>th</sup> Annual meeting of the Society of Toxicology, New Orleans, LA, March, 2016.
- Kanine, J. M., N. P. Nibbelink, M. T. Mengak, S. B. Castleberry, and T. C. Glenn.* 2015. Individual-based landscape genetics resistance surface analysis of Allegheny woodrats (*Neotoma magister*) in Virginia. Poster Presentation – 22<sup>nd</sup> Annual Conference, The Wildlife Society, Winnipeg, Manitoba, Canada. October 18-20, 2015.
- Glenn, T. C.,* B. Faircloth, R. Nilsen, J. Finger, T. Kieran, and T. Pierson. Adapterama @ BadDNA.org – DNA sequencing sample prep for Illumina instruments made easy (amplicons, RADseq, SeqCap & Genomes). Society for the Study of Evolution, Raleigh, NC, June 2014.
- Glenn, T. C.* Conserved DNA elements as tools for understanding crocodylian biology. 4<sup>th</sup> International Meeting of the Crocodylian Specialist Group, Lake Charles, LA. May, 2014.
- Glenn, T. C.* and B. Faircloth. BadDNA.org: An online field guide to transitional and transformative NGS tools. Society for the Study of Evolution, Snowbird, UT, June 2013.
- Glenn, T. C.* Finding and using genetic variation to assemble the genome and provide markers for artificial selection: RNA-Seq vs. RAD-Seq vs. Seq Cap vs. Genome Seq. 4<sup>th</sup> International Workshop on Crocodylian Genetics and Genomics, Darwin, Australia. May, 2012.
- Glenn, T.,* S.L. Lance, A.M. McKee, B.L. Webster, A.M. Emery, A. Zerlotini, G. Oliveira, D. Rollinson, and B.C. Faircloth. Microsatellite DNA loci from a genome-wide database show significant variance in genetic diversity among populations of *Schistosoma haematobium*. 2012 International Conference on Emerging and Infectious Diseases. Atlanta, GA. March, 2012.
- Glenn, T.,* R. Nilsen, M. Belanger, M. G. Harvey, J. McCormack, K. Winker, C. Locklear, R. Brumfield, and B. C. Faircloth. Direct comparison of adapters and in-solution sequence capture methods. Advances in Genome Biology and Technologies. San Marco Island, Florida. February, 2012.
- Finger, J.W. Jr.,* S.R. Isberg, C. Moran, *T.C. Glenn,* C.A. Jones, and S.M. Tompkins. Immunity in crocodylians: androgen and viral immunomodulation. 4<sup>th</sup> International Workshop on Crocodylian Genetics and Genomics. Darwin, Australia. May 2012.
- Finger, J.W. Jr.,* C. A. Jones, *T.C. Glenn,* and S.M. Tompkins. Innate immunity in crocodylians: toxicant and viral immunomodulation. Interdisciplinary Toxicology Program Retreat. UGA, Athens, GA. April 2012



*Finger, J. W. Jr., B.L. Temple, C.A. Jones, T. Jelesijevic, E.W. Uhl, R.J. Hogan, T.C. Glenn, S.M. Tompkins.* Susceptibility of American Alligators to Avian and Human Influenza. 2012 International Conference on Emerging and Infectious Diseases. Atlanta, GA. March, 2012.

>100 additional presentations and/or posters have been given or co-authored. This information is not routinely collected or updated anymore.

### Media & Outreach Activities (Representative Examples)

COVID-19 media reports:

<https://news.uga.edu/heat-key-killing-coronavirus-surfaces/>

<https://www.gpb.org/news/2020/04/27/uga-professor-heat-can-be-used-disinfect-facial-masks>

<https://www.wuga.org/post/athens-news-matters-how-where-and-when-wear-mask-public#stream/0>

<https://www.forbes.com/sites/marshallshepherd/2020/05/16/could-sunlight-and-heat-in-your-car-be-a-weapon-against-coronavirus-on-packages-and-masks/>

<https://www.aarp.org/health/conditions-treatments/info-2020/masks-are-safe-effective.html>

<https://www.thedailybeast.com/is-in-person-voting-really-unsafe>

<https://www.ajc.com/sports/georgia-tech/why-epidemiologists-are-pessimistic-about-a-college-football-season/ESQKTCZN5FGLVFWPGQL5HWGCBY/>

Antibiotic Resistance: <https://www.sciencedaily.com/releases/2020/08/200813142402.htm>

Over the past 2 decades, we have used alligators for a variety of classroom and outreach activities, reaching people from pre-school through retiree. Young alligators are currently available for outreach at UGA and Athens via collaboration with Dr. Robert Bringolf in Forestry and Natural Resources.

Animal Adaptations: from Reptiles to Marsupials – live alligators and sugar gliders, animal skins, claws, etc. – presentation to the Zoology class at Cedar Shoals High School, Athens, GA. April 2018, 2019.

Media stories about 2019 PNAS passerine bird phylogenomics paper:

<https://news.uga.edu/study-uses-genomic-tools-to-illuminate-bird-evolution/>

[https://www.eurekalert.org/pub\\_releases/2019-04/lisu-sc032719.php](https://www.eurekalert.org/pub_releases/2019-04/lisu-sc032719.php)

<http://www.sci-news.com/biology/passerine-family-tree-07057.html>

All about alligators – live alligators, skins, and skulls – four presentations for gifted and collaborative classes at Barrow Elementary School, Athens, GA; March 2019.

Animal Diversity presentation with J. L. Glenn (alligator, crocodile, fox, raccoon, beaver, & lion skins, claws &/or skulls, porcupine quills, bat skeletons, live baby alligators) – seven presentations at Oconee Elementary School, May, 2016.

Collaborative research on avian phylogenetics (Pub #83) resulted in many media stories in December 2014, including: <https://www.sciencedaily.com/releases/2014/12/141211142136.htm>;

<http://sciencenordic.com/groundbreaking-genome-sequencings-reveal-how-birds-became-birds>;

<http://www.sci-news.com/genetics/science-genomes-48-bird-species-avian-family-tree-02340.html>

Science magazine, News & Analysis, story about ultraconserved elements and their use in phylogenies, 4 October, 2013: <http://science.sciencemag.org/content/sci/342/6154/26.full.pdf>

Media stories about turtle phylogeny paper (Pub #66):

ABC Science news online, Yahoo News, eScienceNews, Phys.org, topNewsToday, oneNewsPage.com & dozens of others: AFP. May 15<sup>th</sup>, 2012. Scientists lift the lid on turtle evolution.

<http://news.yahoo.com/scientists-lift-lid-turtle-evolution-230956824.html>

Nature – News Feature: Dolgin, E. 2012. Phylogeny: Rewriting evolution. Nature 486: 460-462.

<http://www.nature.com/news/phylogeny-rewriting-evolution-1.10885>

Science Friday – Rogers, K. June 5<sup>th</sup>, 2012. The Molecular Secrets of Turtles.

<http://www.sciencefriday.com/blogs/06/05/2012/the-molecular-secrets-of-turtles.html>

Science Daily – Turtles More Closely Related to Birds Than Lizards and Snakes, Genetic Evidence Shows. <http://www.sciencedaily.com/releases/2012/05/120523200301.htm>

Elements – Jones, G. May 17<sup>th</sup>, 2012. Turtle origins uncovered. <http://www.elements-science.co.uk/2012/05/turtle-origins-uncovered/>

Reasons to Believe – Turtle Origins Challenge Evolution. Misinterpreted, but entertaining podcast - <http://www.reasons.org/podcasts/science-news-flash/turtle-origins-challenge-evolution>

Outreach presentation: DNA Sequencing for Human Health. Sidney Senior Center, June 2012.

What everyone needs to know about graduate school, but no one ever tells them. Presentation with J. Glenn. October, 2011, EHS Club, similar presentations to Infectious Diseases REU program students, summer 2014, 2015 and NSF Fungal Dimensions training students, summer 2013, 2014.

The *Anolis* genome press release (Nature, doi:10.1038/news.2011.512) was picked up by many media outlets, including Scientific American (August, 2011): <http://www.scientificamerican.com/article.cfm?id=lizard-genome-unveiled>

The Georgia Genomics Facility was featured in multiple UGA outlets including (2010, 2011):  
<http://columns.uga.edu/news/article/georgia-genomics-facility-offerings-to-researchers/>  
<http://columns.uga.edu/news/article/new-ggf-site-offers-info-about-its-services/>

Mate fidelity of American alligators was picked by many media outlets, including Wired (October, 2009):  
<http://www.wired.com/wiredscience/2009/10/alligator-mates/>

Many additional media and outreach activities have been and continue to be undertaken. Some additional information is available upon request, but this information is not systematically collected or archived anymore.

## PROFESSIONAL SERVICE

### UGA Committees

- 2017 – present Georgia Advanced Computing Resource Center Advisory Committee
- 2017 – present College of Public Health eCourse Committee
- 2023 – present Franklin College of Arts & Sciences – Data Science Task Force
- 2023 College of Public Health Tenure & Promotion Committee
- 2023 Franklin College of Arts & Sciences – Exec. Director Office of Information Tech. Search
- 2023 Office of Research – BTSI 5 year Review Committee (Chair)
- 2023 – 2025 UGA University Council Program Review & Assessment Committee (PRAC); Office of Research, Centers & Institutes Representative
- 2023 – 2025 UGA Faculty Post-Tenure Review Appeals Committee
- 2022 – 2025 UGA University Council - Faculty Affairs Committee (CPH elected representative)
- 2021 – 2024 UGA University Council (CPH elected representative)
- 2022 – 2023 EHS Faculty Search Committee Chair (2 positions)
- 2021 – 2023 UGA – Infectious Disease AI Faculty Cluster hire (8 positions, 6 committees)
- 2019 – 2022 College of Public Health Faculty Advisory Council
- 2009 – 2020 Dept. of Environmental Health Science MPH Admissions Committee
- 2019 – 2020 College of Public Health Strategic Planning Committee
- 2019 – 2020 EITS Strategic Planning Committee
- 2019 – 2020 EHS Faculty Search Committee
- 2018 – 2020 College of Public Health Graduate Education Committee
- 2017 – 2019 UGA Research Safety Committee (CPH representative)
- 2018 – 2019 Joint Faculty Search Committee: Marine Science / Institute of Bioinformatics
- 2009 – 2018 Dept. of Environmental Health Science Graduate Admissions Committee
- 2017 UGA Office of Research Review of UGA Plant Center, chair
- 2016 – 2019 College of Public Health 7010 Core Course Implementation Committee
- 2015 – 2016 UGA Program Review & Assessment Committee (PRAC) + procedures subcommittee
- 2013 – 2015 Institute of Bioinformatics Symposium Committee
- 2013 (fall) Dept. of Environmental Health Science Assistant Research Scientist Search (Chair)
- 2012 – 2015 Georgia Genomics Facility Faculty Advisory Committee
- 2011 – 2013 Institute of Bioinformatics Seminar & Program Committee
- 2011 – 2013 James L. Carmon Scholarship Selection Committee (VP of Research Award)
- 2010 – 2013 University Council Faculty Affairs Committee
- 2011 – 2013 College of Public Health DrPH Committee
- 2011 – 2012 College of Public Health Professional Degrees Committee
- 2010 – 2012 Interdisciplinary Toxicology Program - Curriculum Committee Chair
- 2010 – 2011 College of Public Health Bylaws Committee
- 2010 – 2011 Disease Ecology Seminar Committee

- 2010 – 2011 Contextual Genetics Faculty Search Committee (Psychology Dept., UGA)  
 2010 – 2011 *Ad hoc* Research Computing Strategic Planning Thinktank  
 2009 – 2011 College of Public Health Curriculum Committee, chair (2010-2011 academic year)  
 2009 – 2011 Institute of Bioinformatics Curriculum Committee  
 2009 – 2010 Interdisciplinary Toxicology Program Strategic Planning Committee  
 2008 – 2011 Univ. Council & UC Executive Committee (College of Public Health, elected rep.)  
 2008 (spring) Environmental Health Science Department Chair Search Committee  
 2006 – 2009 Interdisciplinary Toxicology Program Executive Committee  
 7 additional committees at SREL, including Strategic Planning & Educational Committee (Chair), additional information available upon request.

#### Multi-User Facilities

- 2007 – 2012 Faculty Director, Georgia Genomics Facility, University of Georgia  
 2002 – 2007 Associate Director, Univ. of South Carolina Institute for Biological Research & Training  
 2002 Integrated multi-user DNA laboratory and USC Institute for Biological Research & Training  
 2001 Established a multi-user DNA laboratory at University of South Carolina  
 1999 Established a multi-user DNA laboratory at UGA's Savannah River Ecology Lab

#### Manuscript and *ad hoc* Proposal Reviews

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|--|---|
| African Journal of Biotechnology             | Marine and Freshwater Research  |
| American Zoologist                           | Medical Research Council (MRC) – UK                                   |
| Axios  | Molecular Biology and Evolution                                       |
| BioTechniques                                | Molecular Development and Evolution                                   |
| BioMed Research International                | Molecular Ecology   |
| BMC Genomics                                 | Molecular Ecology Resources   |
| Canadian Journal of Zoology                  | Mutation Research – Genetic Toxicology &<br>Environmental Mutagenesis |
| Copeia                                       | NSF – Biology (DEB), Dimensions in Diversity                          |
| Comparative Biochemistry & Physiology        | National Geographic Society   |
| Conservation Biology                         | Parasites and Vectors   |
| Conservation Genetics                        | PeerJ   |
| Ecology and Evolution                        | PLoS ONE  |
| Environmental Toxicology and Chemistry       | Proceedings of the National Acad Sci., USA                            |
| Evolution                                    | Smithsonian   |
| EPSCoR                                       | The Auk   |
| Gene   | The Condor  |
| Graduate Women in Science                    | Trends in Genetics  |
| Journal of Experimental Zoology A            | US Army Engineer Research & Development Center                        |
| Journal of Heredity                          | UGA Internal Grants – UGA-GRU, Infectious<br>Disease Program          |
| Journal of Wildlife Management               | Waterbirds  |
| Infectious Diseases of Poverty               |   |
| Int. J. Parasitology: Parasites and Wildlife |   |

#### Journal Activities

- 2009 – 2019 Associate Editor, Molecular Ecology Resources

#### Society Activities (membership, committee membership in italics)

- Environmental Mutagenesis and Genomics Society  
 IUCN - *Crocodylian Specialist Group (CSG)*  
 Society for the Study of Evolution

#### Other Service & Professional Activities

- 2017 – present Taxonomy, Identification, and Phylogenetics subgroup of the CSG  
 Spring 2016 CDC Special Emphasis Panel, Public Health Research in Kenya  
 2011 – 2014 Smithsonian Next Generation DNA Sequencing Advisory Committee  
 Spring 2013 Smithsonian Global Genomics Initiative Workshop Participant

Fall 2011 Smithsonian Proposal Review Panel for Next-Gen Pilot Projects  
 Fall 2011 National Science Foundation IGERT Review Panel, Alexandria, VA.  
 Fall 2010 US Dept. of Energy, Joint Genome Institute Low Dose Program Proposal Review Panel  
 2006 – 2007 Ruth Patrick Science Education Center Advisory Committee  
 2005 – present Reptile Genomics Working Group (founding member)

## TEACHING

### Full Courses

*Environmental Genomics (formerly Empirical Genomics)*, EHSC 8460/8460L, University of Georgia, 3 credits (modular). Lecture & lab course emphasizing the acquisition and analysis of genomic data. Spring 2022, Fall 2012-2020, 2023.

*Fundamentals of Environmental Health Science*, online course, EHSC 7010E, University of Georgia, 3 credits. Core lecture course for Master of Public Health students. May 2020, 21, 22; Fall 2020.

*Fundamentals of Environmental Health Science*, EHSC 7010, University of Georgia, 3 credits. Core lecture course for Master of Public Health students. Spring 2013 – 2016, 2018; May 2015, 2018; Fall 2016, 2018, 2019; additional semesters within the Team Taught section below.

*Proseminar in Environmental Health Science*, EHSC 6010/8050, UGA, 1 credit hour, spring 2009, 2012, 2013, 2014, 2015; additional semesters team taught (see below).

*Freshman Seminar: Best Biology Seminar Ever*, FYOS 1001, UGA, 1 credit. Discussion of modern genetics and genomics with weekly assigned reading and writing activities, student presentations, community events, and an introduction to UGA. Fall 2017, 2018, 2019.

*Freshman Seminar: Good DNA, BadDNA and Your Mean Genes*, FYOS 1001, UGA, 1 credit. Discussion of modern genetics and genomics with weekly assigned reading and writing activities, student presentations, community events, and an introduction to UGA. Fall 2014 - 2016.

*Freshman Seminar: BadDNA*, FYOS 1001, UGA, 1 credit. Discussion of modern genetics and genomics with weekly assigned reading and writing activities, multiple presentations, and group projects. Also gives an introduction to UGA. Fall 2011 - 2013.

*Genome Technologies*, EHSC 8450, University of Georgia, 3 credits. Lecture & discussion with occasional labs, emphasizing the acquisition, use, and limitation of instruments used to acquire genomic data. Spring 2009, 2012, 2013.

*Environmental Biotechnology*, EHSC 4710/6710, University of Georgia, 3 credits. Combined lecture and laboratory course emphasizing hands-on experience and practical information for use in the lab. Fall 2008. EHSC 6710, Fall 2009, 2010.

*Essential Genome Technologies*, EHSC 8800, University of Georgia, 1 credit. Lecture & discussion emphasizing the use and limitations of instruments used to acquire genomic data. Spring 2010.

*Applied Ecological Genetics*, Ecology 8990 (problems in ecology), University of Georgia, 3 credits. Developing and leading a reading course for graduate students at SREL (4 students, ~16 additional people attending/auditing), Spring 2004

*Microsatellite Workshop*, laboratory workshop on the development and use of microsatellite DNA loci, sponsored by the Plant Center, Center for Applied Genetic Technologies, Office of the Vice President of Research, Warnell School of Forest Resources, Department of Plant Biology, and Savannah River Ecology Laboratory, University of Georgia, July 2003.

*Graduate Research Instructor* (Biol 798), University of South Carolina, Spring, Summer, Fall 2003.

*Graduate Research Instructor* (Ecol 9000, 9300), University of Georgia, Summer, 2003, Summer & Fall 2004.

*Experimental Biotechnology*, Biology 656, 4 credits, graduate level laboratory course, University of South Carolina, summer 2000, spring 2001, 2002.

*Undergraduate Honors Research Instructor* (Biol 4990H), UGA, 3 credits, spring 2001.

### **Team Taught Courses (since joining EHS)**

*Fundamentals of Environmental Health Science*, EHSC 7010, University of Georgia, 3 credits. Core lecture course for Master of Public Health students. Spring 2017, May 2017, Spring 2021.

*Proseminar in Environmental Health Science*, EHSC 6010/8050, UGA, 1 credit hour, spring 2018, 2019, 2020.

*Advanced Topics in Environmental Health*, EHSC 8010, UGA, 3 credit course with four modules, one of four instructors. Lecture course, taught module on relevance of genomic studies to public health. Fall 2013, 2015, 2017, 2018, 2020.

*Introduction to Environmental Health Science*, EHSC 3060E (online course), UGA, 3 credit hours, Summer I 2020, Summer II 2020.

*Environmental Issues in the Developing World*, EHSC 4400, 3 credit course; one of six instructors. Lecture course, Spring 2019, 2020.

*Environmental Toxicology*, EHSC 4490, 3 credit course with four modules; one of five instructors. Lecture course, Fall 2016.

*Chemical Toxicology*, VPHY/EHSC 8930, UGA, 3 lectures on Heavy Metals, spring 2008, 2010, 2012.

*Epigenomics Seminar*, EHSC 8100, UGA, 1 credit. Journal club format co-taught with Dr. Mary Alice Smith. Fall 2011.

*Fundamentals of Physiology for Environmental Health Scientists*, EHSC 2100, UGA, 3 credits, co-taught with Dr. Julie Glenn. Lecture course covering human and comparative anatomy and physiology, with examples of relevance in public health. Summer 2011. Guest lecture on radionuclide incorporation into muscle and bone given during all subsequent courses, Spring 2012-2016.

### **Short Courses (non-credit)**

*Fungal Dimensions: Integration of Molecular and Field Approaches to Ecology*, Smithsonian Tropical Research Institute, Gamboa & Parque Nacional Soberanía, Republic of Panama. Team taught with G. Gilbert (UCSC) & B. Faircloth (UCLA). Lecture & Field course for undergraduate students, high school students and high school teachers. July 2013, 2014.

### **Guest Lectures**

*Population Health*, Augusta University/UGA Medical Partnership course for 1<sup>st</sup> year medical students, 1 lecture (Global Health: Impact of the environment on human health), fall 2017, 2018.

*Orientation to Environmental Health Science*, EHSC 2020, UGA, 1 guest lecture each semester since spring 2008.

*Fundamentals of Environmental Health Science*, EHSC 7060, now EHSC 7010, UGA, 1 guest lecture on genetics in environmental health, each semester (when not teaching the course) since Fall 2008, 1 guest lecture on radioactivity, each semester Spring 2009-2012, 1 guest lecture on Heavy Metals, each spring semester 2010-2012.

*Advanced Methods for Biological Data Analyses*, BINF 8211, Bioinformatics Program, UGA, 1 guest lecture, spring 2012 - 2016.

*Advanced Molecular Techniques*, IDIS 8080L, Department of Infectious Diseases, UGA, full day guest lecture, May 2012, half day lectures 2014, 2016.

#### Additional Examples of Individual Guest Lectures given at UGA:

*Environmental Microbiology*, EHSC 4310/6310 - next-generation DNA sequencing, spring 2013.

*Genome Analysis*, GENE 8940, Genetics Department spring 2011, 2012.

*CURO-BHSI Gateway Seminar*, BHSI 3070, fall 2011.

*Developmental Epigenetics for Behavioral Scientists*, PSYC 9100, Psychology Department, fall 2010.

*Biomarkers: Public Health, Clinical & Environmental Toxicology Applications*, EHSC 8250, Spring 2009.

*Genetic and Epigenetic Processes in Preventive Intervention*, PSYC 8000, Psychology Dept., fall 2009.

*Introduction to Bioinformatics*, BINF 6001, fall 2009, 2010.

*Introduction to Research in Genetics*, GENE 8000, Department of Genetics, UGA, 1 guest lecture, fall 2009.

*Chemistry in Society*, Chem 105, University of South Carolina-Aiken, fall 2001, spring 2002, fall 2002, fall 2003.

*Human Molecular Genetics*, University of South Carolina, Spring semester 1998

#### Teaching Assistantships:

Biology Program, University of Maryland  
 Introductory Genetics, University of Maryland  
 Introductory Biology Lab, University of Maryland  
 Molecular Biology Lab, University of Michigan

*Freshman Honors Leader*, Iowa State University, Fall semesters 1986 and 1988

*Design, research, and development of seminar* on contemporary issues in Animal Rights with Dr. William Franklin, Iowa State University, 1988-89.

## STUDENT SUPERVISION

Students Mentored	EHS	Other UGA	Univ. S. Carolina	Other	Total	Grand Total
graduate advised or co-advised	3, 9, 0	3, 4, 0	0, 0, 5	-	6, 13, 5	24
graduate committee member or external reader	4, 12, 4	11, 32, 6	0, 2, 6	0, 2, 2	15, 48, 18	81
visiting graduate students	0, 0, 2	0, 2, 3	0, 0, 0	0, 2, 10	0, 4, 15	19
Undergraduates (other = visiting)	1, 5, 0	1, 6, 2	0, 0, 5	1, 2, 14	3, 13, 21	37
high school	-	-	-	2, 0, 4	0, 0, 4	6

**Details are presented below only for student mentorship since joining EHS in Dec. 2007.** Additional details of students available in full-length cv (see page 1) & archived cv (upon request).

Name	Dept./Program	Degree	Year	Topic
Fiiifi Agyabeng-Dadzie*	Genetics*	Ph.D.	3	Cryptosporidium genomics
M. Intiaj U. Bhuiyan	Envi. Health Sci.	Ph.D.	2	Antimicrobial Resistance & Crypto
Monica Chan	Envi. Health Sci.	Ph.D.	3	SARS-CoV-2 & AMR NGS
Katie Dillon	Bioinformatics	Ph.D.	3	SARS-CoV-2 & AMR
Leah Lariscy*	Envi. Health Sci.	Ph.D.	2	SARS-CoV-2 Variant Detection
Amanda Sullivan	Bioinformatics	Ph.D.	4	Pathogen Detection Simulations

Name	TCG lab	Dept./Program	Degree	Graduated	Current Position
Julia Frederick	Yes	Envi. Health Sci.	Ph.D.	Fall 2022	Scientist, CDC
Megan Beaudry	Yes	Envi. Health Sci.	Ph.D.	Spring 2022	Tech. Specialist, Arbor Biosciences
Marissa Howard	Yes	Envi. Health Sci.	M.S.	Spring 2022	ORISE, CDC
Swarnali Louha	Yes	Bioinformatics	Ph.D.	Fall 2020	Sr. Bioinformatics Data Sci., Deloitte
Troy Kieran	Yes	Envi. Health Sci.	Ph.D.	Spring 2020	Biologist, CDC
Jesse Thomas	Yes	Envi. Health Sci.	Ph.D.	Summer 2017	Biologist, CDC
Xiaoming Bian	yes*	Envi. Health Sci.	Ph.D.	Spring 2017	Post-doc UGA



Bei Gao	yes*	Envi. Health Sci.	Ph.D.	Fall 2016	Asst. Prof., Nanjing Univ.
W. Glenn Ballard	Yes	Envi. Health Sci.	M.S.	Spring 2016	Student in NC
John Finger Jr.	Yes	Envi. Health Sci.	Ph.D.	Fall 2014	Faculty U. Alabama
Cory Gresham	No*	Toxicology	Ph.D.	Fall 2013	Veterinarian
Anna McKee	Yes	Forestry & Nat. Res.	Ph.D.	Fall 2012	Ecologist, USGS
Brad Temple	Yes	Envi. Health Sci.	M.S.	Summer 2010	Veterinarian
Ellen Breazel	yes*	Statistics	Ph.D.	Summer 2008	Sr. Lecturer, Assst. Director, Clemson
TCG Lab: Yes = full time; yes = part-time; *original advisor left UGA; 5 additional students graduated from the Univ. of South Carolina from 2001 – 2004 (while TCG was employed at UGA SREL)					

Department	TCG Lab	Visiting (non-committee)	Ph.D.	M.S.
UGA – Environmental Health Science	- [3] yes; 4 [4] no	-	4 [6]	1 [1]
UGA – Ecology, Forestry & Natural Resources	1 [3] yes; 2 [5] no	[1]	1 [4]	1 [4]
UGA – Genetics & Plant Biology	1 [5] yes; 3 [3] no	[1]	4 [8]	-
UGA – Institute of Bioinformatics & Comp Sci	1 [0] yes; 1 [2] no	[1]	1 [1]	1 [1]
UGA – Food & Nutrition, Microbio & Tox	2 [2] yes; 3 [2] no	-	4 [4]	1
UGA – Vet Med and Pharmacy	[1] yes; 2 no			
*Non-UGA	- [1] yes; - [3] no	[3]	[5]	-

\*Non-UGA includes: Jadavpur U. (India), U. Alabama, U. Cal. Irvine, U. South Carolina, and U. Sydney (Australia); on committee for 1 of the 3 listed.  
 18 additional committees from 2000-2007  
 16 additional visiting students from 2000-2007; details available upon request

**Details for student mentorship since joining EHS in Dec. 2007.** Details of previous students are available upon request.

Name	TG lab	Department	University	Degree	Year
<b>Committee Member</b>					
Jingxuan Chen	No	Institute of Bioinformatics	UGA	Ph.D.	4
Carter Coleman	No	Environmental Health Sci.	UGA	Ph.D.	3
Emily Cook Herring	No	Population Health	UGA	Ph.D.	3
M. Juliana Hoyos	No	Ecology	UGA	Ph.D.	3
Kyle Jones	No	Environmental Health Sci.	UGA	Ph.D.	3
Nicholas Mallis	No	Epidemiology & Biostats	UGA	Ph.D.	4
Lasya Penumarthi	No	Bioinformatics	UGA	Ph.D.	3
Kimberly Perez	No	Environmental Health Sci.	UGA	Ph.D.	2
Elizabeth Riegelman	No	Environmental Health Sci.	UGA	Ph.D.	4
Scott Rozier	No	Environmental Health Sci.	UGA	Ph.D.	5 <sup>+</sup>
Jacob Siracusa	No	Toxicology	UGA	Ph.D.	5
Patrick Smallwood	No	Plant Biology	UGA	Ph.D.	5 <sup>+</sup>
Piotr Tuczapski	yes	Plant Biology	UGA	Ph.D.	5
Caitlin Williams	yes	Infectious Diseases	UGA	Ph.D.	1
<b>Undergraduate Students</b>					
Arlyn Santiago-Garcia	Yes	Environmental Health Sci.	UGA	B.S.	4

TG Lab: Worked in Travis Glenn's lab: Yes = full time; yes = part-time
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<b>Former Students while at EHS (2008-2022)</b>					
<b>Name</b>	<b>TG lab</b>	<b>Department</b>	<b>University</b>	<b>Degree</b>	<b>Graduated</b>
<b>Graduate Student Advisory Committee Member</b>					
Alec Thompson	yes	Comparative Biomed Sci.	UGA	Ph.D.	Summer 2023
Advised by Michael Yabsley, worked on invasive long-horn ticks. Now a research scientist at USDA, Manhattan, KS.					
Kristen Zemaitis	No	Ecology	UGA	M.S.	Fall 2022
Advised by Jeb Beyers and Ben Parrott, worked on mercury body burdens in American alligators. Now working at					
Megan Lott	No	Environmental Health Sci.	UGA	Ph.D.	Fall 2022
Advised by Erin Lipp, worked on Wastewater-based Epidemiology (inferring characteristics of COVID-19 outbreak from wastewater sampling). Now a post-doc at UNC.					
Ryan Grunert	Yes	Comp. Biomed. Sci.	UGA	M.S.	Summer 2022
Advised by Michael Yabsley, worked on mange mites on black bears - <i>Sarcoptes scabiei</i> .					
Katherine Greeson	No	Environmental Health Sci.	UGA	Ph.D.	Spring 2022
Advised by Charles Easley, worked on reproductive toxicology focusing on the effects of exposure on sperm methylation. Currently, moving to a position in the private sector.					
David Haskins	No	Toxicology	UGA	Ph.D.	Spring 2021
Advised by Tracey Tuberville, worked on mercury in water snakes on the SRS. Now a postdoc at the USGS Eastern Ecological Science Center, Patuxent, MD					
Jiyoung Sammi Kim	yes	Food and Nutrition	UGA	Ph.D.	Spring 2021
Advised by Claire de La Serre, worked on gut-brain axis and reward pathway. Now a postdoc at Emory University School of Medicine.					
Karen Bobier	No	Genetics	UGA	Ph.D.	Fall 2020
Advised by John Wares, worked on population genomics and epigenetics of native fish. Now a Bioinformatician, Texas Dept. of State Health Services, Austin, TX.					
Joonsu Jang	No	Environmental Health Sci.	UGA	M.S.	Summer 2020
Advised by J.S. Wang, worked on ochratoxin evaluation in <i>C. elegans</i> . Returned to career in South Korean military.					
Maite Ghazaleh	No	Environmental Health Sci.	UGA	Ph.D.	Summer 2020
Advised by Erin Lipp, worked on coral bleaching. Now an Environmental Microbiologist for the US EPA, RTP, NC.					
Pooja Gupta	yes	Forestry, Natural Resources	UGA	Ph.D.	Spring 2020
Advised by Guha Dharmarajan, worked on genetics of isolated bird populations and avian malaria. Now a Genomic Data Specialist for the Illinois Dept. Public Health.					
Amanda Howard	No	Forestry & Nat. Resources	UGA	M.S.	Fall 2019
Advised by Susan Wilde, worked on genetics of cyanobacteria that causes AVM. Now a PhD student in Bioinformatics at UGA.					
Jarad Cochran	No	Toxicology	UGA	M.S.	Fall 2019
Advised by John Seaman, worked on detecting plasmids in soils. Now a PhD candidate at UKY.					
Madison O'Malley	No	Environmental Health Sci.	UGA	M.S.	Summer 2019
Advised by Erin Lipp, worked on response of <i>Vibrio</i> to Saharan dust deposition.					
Matthew Hale	No	Ecology	UGA	Ph.D.	Summer 2019

Advised by Ben Parrott, worked on ecotoxicology of alligators. Now a postdoc at UVA.					
William Thompson	yes	Toxicology	UGA	Ph.D.	NA
Advised by Stacey Lance, worked on ecotoxicology. Left program prior to prelims.					
Yuting Zhou	No	Computer Science	UGA	M.S.	Spring 2019
Advised by Thiab Taha, worked on software to demultiplex unique molecular identifiers.					
David Brew	No	Environmental Health Sci.	UGA	Ph.D.	Spring 2019
Advised by Marsha Black, worked on aquatic toxicology. Now a Toxicologist and Regional Unit Manager, Paustenbach & Associates, Jackson, WY.					
Guannan (Bela) Huang	No	Environmental Health Sci.	UGA	Ph.D.	Spring 2018
Advised by Tai Guo, worked on the effects of toxins on the mammalian gut microbiome. Now a postdoc at NCI NIH, Frederick, MD.					
Shubham Basu	No	Bioinformatics	UGA	M.S.	Spring 2018
Advised by Jessica Kissinger on genome assembly of <i>Toxoplasma gondii</i> and multi-copy gene family assembly methods. Now Senior Bioinformatician at Mayo Clinic, Rochester, MN.					
Ramya Kolli	yes	Toxicology	UGA	Ph.D.	Fall 2017
Advised by Brian Cummings on effects of bromate on epigenetics. Now postdoc at Duke University.					
Caitlin Ishibashi	No	Plant Biology	UGA	Ph.D.	a.b.d.
Advised by John Burke, worked on genetics of sunflowers. Now a teacher at Woodward Academy.					
Shenxuan Liang	No	Environmental Health Sci.	UGA	Ph.D.	Summer 2017
Advised by John Yu, worked on Cd toxicology and male reproductive effects. Now Regulatory Affairs Manager, AstraZeneca, Beijing, China.					
Jessica Stephens	yes	Plant Biology	UGA	Ph.D.	Spring 2017
Advised by Russell Malmberg, working on pitcher plants. Now an Assistant Professor at Westfield State University.					
Jincheng Wang	yes	Environmental Health Sci.	UGA	Ph.D.	Spring 2017
Advised by J.S. Wang, working on the effects of green tea on the gut microbiome. Now at Xbiome.com, China					
Keri Lydon	No	Environmental Health Sci.	UGA	Ph.D.	Spring 2017
Advised by Erin Lipp, working on Vibrio resistance and infections from raw oyster consumption. Now an instructor, Dept. Envi. Health Sci., UGA.					
Ade Oladeinde	yes	Environmental Health Sci.	UGA	Ph.D.	Spring 2017
Advised by Erin Lipp and Marirosa Molina (EPA), working on the pathogen regrowth in surface waters impacted by agriculture, especially cattle. Now a Microbiologist at USDA, Athens, GA.					
Sandra Hoffberg	yes	Genetics	UGA	Ph.D.	Spring 2017
Advised by Rodney Mauricio, working on the genetics of kudzu & wisteria. Now an NSF postdoc at Columbia University.					
Peter Scott	yes	Biological Sciences	Alabama	Ph.D.	Fall 2016
Advised by Leslie Rissler, working on the spatial genetics of turtles and epigenetics of newts. Now an Assistant Professor, West Texas A&M University.					
Cara McElroy	yes	Ecology	UGA	M.S.	Fall 2016
Advised by Lora Smith and Jeff Hepinstall Cymerman, worked on landscape genetics of frogs. Now a Research Associate at Zoo New England.					
Nicholas Troendle	yes	Genetics	UGA	Ph.D.	Summer 2016
Advised by Rodney Mauricio on mosquitofish genomics. Now an Assistant Professor, Olivet Nazarene University.					
Rahat Desai	yes	Toxicology	UGA	Ph.D.	Summer 2016
Advised by Mary Alice Smith, worked on <i>Lysteria</i> and microbes in households. Now an Associate Principle Scientist, Toxicology, Juul Labs, Medina, OH.					
David Haskins	No	Forestry & Nat. Resources	UGA	M.S.	Summer 2016
Advised by Tracey Tuberville, worked on selenium toxicology in red-eared sliders. Immediately following graduation, immediately went into PhD program in Toxicology (see Spring 2021 above)					
Matt Hamilton	No	Forestry & Nat. Resources	UGA	M.S.	Spring 2016

Advised by Tracey Tuberville (SREL) & Robert Bringolf, worked on measuring stress (corticosterone) in alligators. Now Research Professional II, SREL, UGA.					
Kerin Bentley	yes	Genetics	UGA	Ph.D.	Fall 2015
Advised by Rodney Mauricio, worked on invasive plant species in the US and China (kudzu). Now Co-founder of LeafWorks and Cannodor Herbium, Sebastopol, CA.					
Katie Bockrath	No	Genetics	UGA	Ph.D.	Fall 2015
Advised by John Wares, worked on freshwater mussels. Now a Geneticist, US Fish & Wildlife Service, San Marcos, TX.					
Jenna Hamlin	No	Genetics	UGA	Ph.D.	Spring 2015
Advised by Michael Arnold, worked on genetics and phylogeography of hybridizing iris species. Now a computational biologist in the Respiratory Diseases Lab Branch at CDC, Atlanta, GA.					
Deli Liu	No	Bioinformatics	UGA	Ph.D.	Fall 2014
Advised by Shaying Zhao, worked on detecting amplifications and deletions in breast cancer genomes. Now a Computational Biologist at Loxo Oncology at Lilly, New York, NY.					
Fei Zhao	No	Toxicology	UGA	Ph.D.	Summer 2014
Advised by Xiaoqin Ye, worked on reproductive toxicology. Now a postdoc at NC State.					
Jared Lee	yes	Genetics	UGA	Ph.D.	Summer 2014
Advised by Rodney Mauricio, worked on mosquitofish, introduced from the US to pacific islands and China (an invasive species). Now an Associate Professor at Southern Virginia University.					
Matt Hawkins	No	Microbiology	UGA	Ph.D.	Spring 2014
Advised by Joy Peterson, worked on genetic differentiation of yeast adapted ethanol production from pine wood. Applications Technical Director at Lallemand Biofuels & Distilled Spirits, Buford, GA.					
Jennifer Kanine	yes	Forestry & Nat. Resources	UGA	Ph.D.	Fall 2013
Advised by Mike Mengak & Steven Castleberry, worked on Allegheny Woodrat conservation genetics. Currently, Director of Natural Resources, Pokagon Band of Potawatomi, Dowagiac, MI.					
Beck Frydenborg	No	Environmental Health Sci.	UGA	M.S.	Fall 2013
Advised by Erin Lipp, worked on genetics of coral pathogens. Currently, Senior Scientist at Frydenborg Ecologic, Tallahassee, FL.					
Christina Zakas	No	Genetics	UGA	Ph.D.	Fall 2011
Advised by John Wares, worked on breeding system and genetics of marine worms. Currently, Assistant Professor, Biology, NC State.					
Brian Shamblin	No	Forestry & Nat. Resources	UGA	Ph.D.	Spring 2011
Advised by Joe Nairn, worked on genetic structure of loggerheads using microsatellite DNA loci. Now an Associate Research Scientist, UGA.					
Matthew Greenwold	No	Biological Sciences	S. Carolina	Ph.D.	Spring 2011
Advised by Roger Sawyer, worked on evolution of feather beta keratin genes in birds & reptiles.					
Ma Hongbo	yes	Environmental Health Sci.	UGA	Ph.D.	Fall 2009
Advised by Phil Williams, investigated toxicity of heavy metals and nanoparticles using <i>C. elegans</i> . Was an Associate Professor at U. Wisconsin Milwaukee, now an Ecotoxicologist at Syngenta.					
Lee Miles	yes	Genetics	U. Sydney	Ph.D.	Fall 2009
Advised by Chris Moran (with Peter Thomson and Sally Isberg). Developed a genetic map and QTLs in saltwater crocodiles. Now a patent lawyer in Sydney, Australia.					
Jeffrey French	No	Biological Sciences	S. Carolina	Ph.D.	Fall 2008
Advised by Austin Hughes, investigating codon bias. Now an Associate Professor, Associate Dean, and Biology Chair at North Greenville University.					
Michelle Norris	No	Forestry & Nat. Resources	UGA	M.S.	Summer 2008
Advised by Richard Winn, investigating mutational assays of medaka.					
Tracey Tuberville	yes	Forestry & Nat. Resources	UGA	Ph.D.	Spring 2008
Advised by Whit Gibbons, researching gopher tortoise conservation. Now a Senior Research Scientist, SREL, UGA.					
Brant Faircloth	yes	Forestry & Nat. Resources	UGA	Ph.D.	Spring 2008

Advised by John Carroll and Bill Palmer, researching genetics, behavior, and management of quail. Now an Associate Professor, Biology, LSU.					
18 additional students graduating from 2000 to summer 2007, additional details available upon request					
<b>External Reader</b>					
Meganathan P. R.	No	Life Science	Jadavpur Univ.	Ph.D.	Spring 2011
PhD dissertation: Molecular Forensics and Phylogenetics of Crocodiles: Special Emphasis on Indian Crocodile Species.					
<b>Undergraduate Students</b>					
Mary Isobella Mayse	yes	Science Education	UGA	B.S.	Spring 2021
Samantha Goodman	Yes	Avian Biology	UGA	B.S.	Spring 2019
Sarah Kim	Yes	Biochemistry	UGA	B.S.	Spring 2019
Lily Wang	Yes	Microbiology	UGA	B.S.	Spring 2018
<b>Visiting Students</b>					
Amanda Chong	yes	Genetics	U. Sydney	Ph.D.	2015
Ujwal Bagal	yes	Bioinformatics	UGA	Ph.D.	2015
Tyler Kartzinel	yes	Ecology	UGA	Ph.D.	2012
Laura Vary	yes	Plant Ecology	UC Irvine	Ph.D.	2011
16 additional students from 1999 – 2007, additional details available upon request TCG Lab: Yes = full time; yes = part-time					

### **Additional Details for Recent Students**

#### **Past Students (since joining EHS, Dec. 2007)**

##### Advisor

Megan Beaudry, UGA, Department of Environmental Health Science, PhD student, worked on the microbiomes of healthcare facilities. Now employed in the private sector (Arbor Biosciences).

Swarnali Louha, UGA, Institute of Bioinformatics, PhD student worked with Zaid Abdo at Colorado State & Rick Meinersmann at USDA, worked on methods to identify bacteria of interest in microbial surveys (focusing on Lysteria) and developing pipelines for a broad array of NGS analysis tools. Now a bioinformatics fellow at the CDC.

Troy Kieran, UGA, Department of Environmental Health Science, PhD student worked on the ecology of infectious diseases, focusing on kissing bugs and their mammalian hosts in Panama. Now a bioinformatics fellow at the CDC.

Jesse Thomas, UGA, Department of Environmental Health Science, PhD student, co-advised with Gene Rhodes, SREL, investigating the effects of metal contaminants on microbial communities on the Savannah River Site. Now a Microbiologist (federal career position) at the CDC, Atlanta.

Madelyn (Patrick) Watson, UGA, Department of Environmental Health Science, MS student, worked on the ecology of infectious diseases, focusing on ticks in the USA. Now working in the private sector in the Atlanta area.

Xiaoming Bian, UGA, EHS, PhD student previously advised by Kun Lu on the effects of artificial sugar substitutes on the gut microbiome. Now a postdoc at UGA.

Bei Gao, UGA, EHS, PhD student previously advised by Kun Lu on the functional impacts of insecticides on the gut microbiome, using techniques from genomics and metabolomics. Now an Assistant Professor, School of Marine Sciences, Nanjing Univ. of Information Sci. and Tech., Nanjing, China.

Willem Glenn Ballard, UGA, Department of Environmental Health Science, MS student worked on assessing aquatic communities with environmental DNA. Entered a seminary following UGA.

John Finger, UGA, Toxicology, Department of Environmental Health Science, PhD Dec 2014, investigated influenza transmission in alligators and the effects of toxicants on alligator immune

function (infectious diseases, toxicology, and environmental sentinels). Now an Assistant Professor at the University of Alabama.

Brad Temple, UGA, Environmental Health Science, MS Aug 2010, Thesis: Avian influenza susceptibility in *Alligator mississippiensis*: A model for influenza replication in crocodilian species. Completed DVM at UGA, now a practicing DVM in Vermont.

### Co-advisor

Anna McKee, UGA (Presidential Fellow), School of Forestry & Natural Resources, PhD Dec 2012, co-advised with John Maerz, investigated the relationship of genetic diversity with land use patterns on amphibian communities (environmental sentinels). Dissertation: Correlations Between Community Diversity and Within-Species Genetic Diversity in an Amphibian Assemblage: Potential Processes and Implications for Conservation Management. Now an Ecologist (federal career position), South Atlantic Water Sci. Center, U.S. Geological Survey, Norcross, GA.

Ellen Breazel, UGA, Statistics, PhD Aug 2008, co-advised with Paul Schliekelman, Dissertation: Effects of common errors in microsatellite data on estimates of population differentiation and Inferring genotypic structure of complex loci using genome-wide expression data. Currently working as an instructor at Clemson University (her dream job, she turned down tenure-track positions).

Cory Gresham, UGA, Toxicology, DVM & PhD student worked with Richard Winn on germ-line mutagenesis using transgenic medaka & mouse models. Dissertation: The oocyte as a transmitter and mediator of genetic damage to offspring. Graduated fall 2013 with TCG as signing advisor. Now a practicing DVM.

[5 additional students graduated from the University of South Carolina from 2001 – 2004]

### Visiting Students

Ujwal Bagal, UGA, Bioinformatics, PhD student, working on a variety of bioinformatics projects.

Jennifer Kanine, UGA, Forest Resources, PhD student (see committee membership for details).

Jessica Stephens, UGA, Plant Biology, PhD student (see committee membership for details).

Peter Scott, University of Alabama, PhD student working with Leslie Rissler on the spatial genetics of turtles and epigenetics of newts. December 2012.

Tyler Kartzinel, UGA, Ecology, PhD student working with Rich Shefferson on conservation genetics of orchids. Visited intermittently from 2009-2012

Amanda Chong, Univ. of Sydney, Australia, PhD student of Jaimie Gongora, surveying ERV genetic elements in saltwater crocodile BACs, visiting to make 454 libraries of the BACs. June & July, 2011.

Laura Vary, Univ. of California, Irvine, student of Steve Weller and Anne Sakai developing and genotyping microsatellites of a Malagasy plant. March, 2008.

[16 additional students from 1999 – 2007; list available upon request]

### Undergraduates

Arlyn Santiago-Garcia, UGA, EHS - summer 2022 (CURO)

Alexia Innis, Emory – summer 2022 (REU)

Yvrine Nguiwenga-Nketcha, GA State – summer 2021 (virtual REU)

Mary Isobella Mayse, UGA, Science Education – Fall 2020

Samantha Goodman, Avian Biology – 2018-19

Sarah Kim, UGA, Biochemistry – 2018 (CURO)

Lily Wang, UGA, Microbiology – 2014-2017; technician spring 2018

Kendra Barr, UGA, EHS – fall 2016

Bryan Liang, UGA, Biology – fall 2016

Tyler Moore, UGA, EHS – summer 2015

Tucker Bond, UGA, Biology – summer 2014

Nicholas Means, Oklahoma State, biochemistry – summer 2014 (REU)

Darlisha Owens, Grambling State – summer 2014 (REU)

Geeci Collins, UGA, EHS – summer & fall 2013

Philip Pham, UGA, EHS – spring, summer, fall 2013



Jamila Pham, UGA, EHS – summer 2012.  
Tanika Hood, UGA, EHS – spring 2010.  
Nicole Jozwiak, UGA, Warnell School of Forestry and Natural Resources. 2008-2010.  
Sheena Zhang, UGA, Ecology, 2008.  
[21 additional students from 1998-2007; list available upon request]

### **POSTDOCTORAL MENTORING**

Randi Turner, 2022 – current. Working on Crypto-capture project (NIH R01; see funded projects above), based in Dr. Asis Khan's laboratory, USDA, Beltsville, MD.  
Megan Beaudry, 2022. Worked on Crypto-capture project (NIH R01; see funded projects above).  
Natalia Bayona-Vasquez, 2016-2020. Currently an Assistant Professor at Oxford College of Emory University.  
Kenneth L. Jones, 2007-2009, now an associate professor, Department of Biochemistry and Molecular Genetics, University of Colorado Denver – Anschutz School of Medicine  
Stacey Lance, 2007-2009, now a senior research scientist, Savannah River Ecology Lab, UGA  
Olga Tsyusko, 2004-2006, now an associate research professor, Department of Plant and Soil Sciences, University of Kentucky  
Julie Weston, 2002, now an instructor, University of North Georgia, Oconee campus

### **VISITING SCIENTISTS SPONSORED**

Anna McKee, US Geological Survey, Atlanta, GA, detecting endangered amphibians via environmental DNA sequencing and quantitative PCR, 2012 - 2019  
Stephen Spear, Orianne Society, Athens, GA, detecting amphibians via environmental DNA (shed DNA in water) and quantitative PCR – 2014 - 2016  
John Carothers, Cabrillo College, Aptos, CA, NGS training for Fungal Dimensions project, June 2014.  
Christopher Moran, University of Sydney, Australia, analyzing crocodile transcriptome data, Jan 2011.  
Kevin Winker, University of Alaska, Fairbanks, analyzing transcriptome data, April 2010.  
Christina Garcia, Fulbright Fellow, Dept. of Plant Science, UGA, developing and genotyping microsatellites in tropical trees, 2008-2010.  
John McCormack, Louisiana State University, working on tetrapod UCEs, November 2009.  
Elena Varela-Álvarez, CCMAR - Center for Marine Sciences, F.C.M.A., University of Algarve, Portugal, developing microsatellite DNA loci, 2007  
Thierry Cadalen & Monika Morchen, Universite des Sciences et Technologies de Lille, France, developing microsatellite DNA loci, November 2004.  
Dorset Trapnell, University of Georgia, developing microsatellite DNA loci, fall 2004.  
Gary & Ann Fritz, Eastern Illinois University, developing microsatellite DNA loci, fall 2002.  
Jennifer Dever, Lander University, working on mtDNA of red pandas, summer 2000.