

CURRICULUM VITAE THOMAS J. NEAR

University professor and administrator with extensive leadership experience, scientific impact, and an achievement-based commitment to a diverse academic community.

Contact Information

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University Leadership

Recipient of the Faculty of Arts and Sciences Dean's Award for Inclusion and Belonging for 2024

- “As chair of his department, Near has demonstrated exceptional leadership in hiring strategy, attracting scholars from diverse backgrounds to Yale, and he has embraced opportunities to enable junior colleagues to lead. Near has also led diversity and inclusion efforts as Head of Saybrook College, providing consistent support to First-Generation Low Income (FGLI) students and student affinity groups.”

Head of Saybrook College (residential) | 2015 to present

- Central leadership role in a residential college with ~510 students and several families affiliated with Yale.
- Responsible for the intellectual and social life of the college.
- Supervise a staff of six people and coordinate with Saybrook Dining Hall Manager that includes a staff of ~50 people.
- Coordinate with a direct report Operations Manager to ensure physical spaces are maintained and serviced.
- Supervise the planning and execution of student opening days and Commencement at the close of the academic year.
- Provided leadership for a committee called by Dean of Yale College to propose sweeping changes to the management of housing in Yale College.
- Provided leadership and support through the 2020-2021 COVID pandemic.

Chair, Department of Ecology and Evolutionary Biology (EEB) | July 2018 to June 2024

- Attained recognition as Yale's highest-ranked science department, securing the [#4 spot nationally in Best Ecology Programs](#) (U.S. News and World Report).
- Led the efforts to successfully recruit seven of the 17 ladder faculty in the department.
- Coordinated the recruitment of faculty candidates that resulted in EEB being among the most diverse faculty at Yale.
- Led discussions among stakeholders that resulted in modifications of the curriculum associated with the EEB undergraduate major.
- Provided leadership and support through the 2020-2021 COVID pandemic.

Professional Experience and Academic Affiliations

Professor, Department of Ecology and Evolutionary Biology, Yale University, New Haven, CT, July 2015-present

Bingham Oceanographic Curator, Division of Vertebrate Zoology, Peabody Museum of Natural History, Yale University, New Haven, CT. July 2015-present

Fellow of Saybrook College, Yale University, New Haven, CT. October 2006-present

Associate Professor (with tenure), Department of Ecology and Evolutionary Biology, Yale University, New Haven, CT, July 2013-June 2015

Associate Professor on Term (without tenure), Department of Ecology and Evolutionary Biology, Yale University, New Haven, CT, July 2011-June 2013

Associate Curator, Division of Vertebrate Zoology, Peabody Museum of Natural History, Yale University, New Haven, CT. July 2011-June 2015

Assistant Professor, Department of Ecology and Evolutionary Biology, Yale University, New Haven, CT. July 2006-June 2011

Assistant Curator, Division of Vertebrate Zoology, Peabody Museum of Natural History, Yale University, New Haven, CT. August 2006-August 2011

Assistant Professor, Department of Ecology and Evolutionary Biology, University of Tennessee, Knoxville. August 2003-June 2006

Center for Population Biology Postdoctoral Fellow, University of California, Davis. July 2000-July 2003.

Education and Degrees:

Ph.D. University of Illinois, 2000 (Ecology, Ethology, and Evolution)

M.A. *Privatim*, Yale University, 2016

M.S. Northern Illinois University, 1995 (Biological Sciences)

B.S. Northern Illinois University, 1993 (Biological Sciences)

B.A. Northern Illinois University, 1993 (History)

Manuscripts Submitted or In Revision

MacGuigan, D.J., A. Taylor, A. Ghezelayagh, J.E. Wood, J.W. Simmons, J.M. Mollish, and **T.J. Near**. Submitted. Genomic and phenotypic delimitation of species in temperate aquatic biodiversity hotspot. **Proceedings of the Royal Society B**.

Schwarz, P.F., T.J. Krabbenhoft, T.J. Near, and D.J. MacGuigan. In review. Mosaic hybridization in a tri-lineage fish hybrid zone, with a comparison of RADseq and low-coverage whole genome sequencing. **Evolution**.

Brownstein, C.D. and **T.J. Near**. Under consideration. Sharks are paraphyletic. **Science Advances**.

Kim, D., B.W. Albanese, D.J. MacGuigan, A. Ghezelayagh, **T.J. Near**, and M.F. Stokes. In review. Linking fluvial barriers and habitat specialization in the evolution of microendemism in riverine fishes. **Evolution**.

Brownstein, C.D., Kim, D., Wood, J.E., Alley, Z.D., Stokes, M.F., and **Near. T.J.** In review. Undescribed and imperiled vertebrate biodiversity near an American urban center. **Biology Letters**.

Brownstein, C.D., M. Polcarpo, R.C. Harrington, E.A. Hoffman, M.F. Stokes, D. Casane, and **T.J. Near**. In review. Cavefish genomes resolve the ages of North American subterranean ecosystems. **Nature Communications**.

Brownstein, C.D., A. Dornburg, and **T.J. Near**. Revision in review. Cenozoic evolutionary history obscures the Mesozoic origins of acanthopterygian fishes. **Evolution**.

Brownstein, C.D., R.C. Harrington, L. Alencar, D.R. Bellwood, J.H. Choat, L.A. Rocha, P.C. Wainwright, J.J. Tavera Vargas, E.D. Burress, M.M. Muñoz, P.F. Cowman, and **T.J. Near**. In review. Phylogenomics establishes an Early Miocene reconstruction of reef vertebrate diversity. **Science Advances**.

Thacker, C.E. and *T.J. Near*. In review. Phylogeny, biology, and evolution of acanthopterygian fish clades. **Reviews in Fish Biology and Fisheries**.

Warren, M.L. and *T.J. Near*. In Press. Centrarchidae. *In: North American freshwater fishes: ecology, evolution, and behavior*. Eds. B.M. Burr and M.L. Warren. John Hopkins University Press.

Citation Indices (updated December 2024)

Google Scholar: 15,705 citations, h-index = 64

Peer-Reviewed Publications

190. Mallik, R., D.J. Weisel, J.A. Yoder, *T.J. Near*, and A. Dornburg. In press. Investigating the impact of whole genome duplication on transposable element evolution in ray-finned fishes. **Genome Biology and Evolution**.

189. Ghezelayagh, A., J.W. Simmons, J.E. Wood, T. Yamashita; M.R. Thomas, R.E. Blanton, O.D. Orr, D.J. MacGuigan, D. Kim, E. Benavides, B.P. Keck, R.C. Harrington, and *T.J. Near*. In press. Comparative species delimitation of a biological conservation icon. **Current Biology**.

188. Brownstein, C.D. and *T.J. Near*. In press. Towards a phylogenetic taxonomy of sturgeons (*Acipenseriformes: Acipenseridae*). **Bulletin of the Peabody Museum of Natural History**. DOI: 10.5281/zenodo.13684043

187. Brownstein, C.D., *T.J. Near*, and R.P. Dearden. 2024. The Paleozoic assembly of the holocephalian body plan far preceded post-Cretaceous radiations into the ocean depths. **Proceedings of the Royal Society B**. 291:20241824

186. Melo, B.F., R.P. Ota, R.C. Benine, F.R. Carvalho, F.C.T. Lima, G.M. Mattox, C.S. Souza, T.C. Faria, L. Reia, F.F. Roxo, M. Valdez-Moreno, *T.J. Near*, and C. Oliveira. 2024. Phylogenomics of Characidae, a hyper-diverse Neotropical freshwater fish lineage, with a phylogenetic classification including four families (Teleostei: Characiformes). **Zoological Journal of the Linnean Society**. 202(1):zlae101. DOI: 10.1093/zoolinnea/zlae101

185. Peart, C.R., R. Bills, J. Newton, *T.J. Near*, J.J. Day. 2024. Do sympatric catfish radiations in Lake Tanganyika show eco-morphological diversification? In revision. **Evolutionary Journal of the Linnean Society**. 3(1):kzae015. DOI: 10.1093/evolinnea/kzae015

184. Brownstein, C.D. and *T.J. Near*. 2024. Exceptional persistence through mass extinctions in jawless vertebrates from the deep sea. **BMC Ecology & Evolution**. 24:79. DOI: 10.1186/s12862-024-02253-y

183. Brownstein, C.D., K.L. Zapfe, S. Lott, R.C. Harrington, A. Ghezelayagh, A. Dornburg, and **T.J. Near**. 2024. Reproductive innovation enabled radiation in the deep sea during an ecological crisis. **Current Biology**. 34(11): R549-R551. DOI: 10.1016/j.cub.2024.04.066
182. Brownstein, C.D. and **T.J. Near**. In press. A giant raptorial bowfin from a Paleocene hothouse ecosystem in North America. **Zoological Journal of the Linnean Society**. DOI: 10.1093/zoolinnean/zlae042
181. Dornburg, A., K. Zapfe, R. Williams, M.E. Alfaro, R. Morris, H. Adachi, J. Flores, F. Santini, **T.J. Near**, and B. Frédérick. 2024. Considering decoupled phenotypic diversification between ontogenetic phases in macroevolution: an example using Triggerfishes (Balistidae). **Systematic Biology**. 72(2):434–454. DOI: 10.1093/sysbio/syae014
180. Nash, J.A. *, R.C. Harrington, K. Zyskowski, **T.J. Near**, and R.O. Prum. 2024. Species status and phylogenetic relationships of the enigmatic Negros Fruit Dove (*Ptilinopus arcanus*). **Ibis**. 165(3):1023–1040. DOI: 10.1111/ibi.13305
179. Brownstein, C.D. and **T.J. Near**. 2024. Evolutionary origins of the lampriform pelagic radiation. **Zoological Journal of the Linnean Society**. 201(2):422-430. DOI: 10.1093/zoolinnean/zlad142
178. Kim, D., J.W. Simmons, and **T.J. Near**. 2024. Identification of non-native population and reconstruction of invasion routes in the Redbreast Sunfish *Lepomis auritus*. **Biological Invasions**. 26:1241–1254. DOI: 10.1007/s10530-023-03241-x
177. Brownstein, C.D., D.J. MacGuigan, D. Kim, O. Orr, L. Yang, S.R. David, B.R. Kreiser, and **T.J. Near**. 2024. The genomic signatures of evolutionary stasis. **Evolution**. 78(5): 821-831. DOI: 10.1093/evolut/qpae028
176. Harrington, R.C., M. Kolmann, J.J. Day, B.C. Faircloth, M. Friedman, and **T.J. Near**. 2024. Dispersal sweepstakes: biotic interchange propelled air breathing fishes across the globe. **Journal of Biogeography**. 51(5):797-813. DOI: 10.3374/014.065.0101
175. **Near, T.J.** and C.E. Thacker. 2024. Phylogenetic classification of living and fossil ray-finned fishes (*Actinopterygii*). **Bulletin of the Peabody Museum of Natural History**. 65(1): 3–302. DOI: 10.1111/jbi.14781
174. Sinopoli, D., **T.J. Near**, S.R. David, P. Chakrabarty. 2024. Reassignment of a junior synonym of *Lepisosteus oculatus* Winchell 1864 to *L. platostomus* Rafinesque 1820. **Zootaxa**. 5432(1):139–144. DOI: 10.11646/zootaxa.5432.1.11

173. Kim, D., M.F. Stokes, S. Ebersole, and **T.J. Near**. 2023. Erosional exhumation of carbonate rock facilitates dispersal-mediated allopatric speciation in freshwater fishes. **Evolution**. 77:2442-2455. DOI: 10.1093/evolut/qpad156
172. Glass, J.R., R.C. Harrington, P.F. Cowman, B.C. Faircloth, and **T.J. Near**. 2023. Widespread sympatry in a species-rich clade of marine fishes (Carangoidei). **Proceedings of the Royal Society B**. 290:20230657. DOI: 10.1098/rspb.2023.0657
171. MacGuigan, D.J., T.J. Krabbenhoft, R.C. Harrington, D.K. Wainwright, N.J.C. Blackstone, and **T.J. Near**. 2023. Lacustrine speciation associated with chromosomal inversion in a lineage of riverine fishes. **Evolution**. 77:1505-1521. DOI: 10.1093/evolut/qpad067
170. Thacker, C.E., W.T. McCraney, R.C. Harrington, **T.J. Near**, J.J. Shelley, M. Adams, M.P. Hammer, and P.J. Unmack. Submitted. Diversification of the sleepers (Gobiiformes: Gobioidae: Eleotridae) and concordant radiations among freshwater fishes in New Guinea. Submitted. **Molecular Phylogenetics and Evolution**. 186:107841. DOI: 10.1016/j.ympev.2023.107841
169. Brownstein, C.D., R.C. Harrington, and **T.J. Near**. 2023. The biogeography of extant lungfishes traces the breakup of Gondwana. **Journal of Biogeography**. 50:1191-1198. DOI: 10.1111/jbi.14609
168. Stokes, M.F., D. Kim, S.F. Gallen, E. Benavides, B.P. Keck, J. Wood, S.L. Goldberg, I.J. Larsen, J.M. Molish, J.W. Simmons, **T.J. Near**, and J.T. Perron. 2023. Erosion of heterogeneous rock drives diversification of Appalachian fishes. **Science**. 380:855-859. DOI: 10.1126/science.add9791
167. Brownstein, C.D., L. Yang, M. Friedman, and **T.J. Near**. 2023. Phylogenomics of gars tracks 150 million years of continental fragmentation in the Northern Hemisphere. **Systematic Biology**. 72:213-227. DOI: 10.1093/sysbio/syac080
166. **Near, T.J.**, J.W. Simmons, R.M. Strange, S.L. Brandt, M.R. Thomas, R.C. Harrington, and D.J. MacGuigan. 2023. Systematics of the Stripetail Darter, *Etheostoma kennicotti* (Putnam), and the distinctiveness of the upper Cumberland endemic *Etheostoma cumberlandicum* Jordan and Swain. **Ichthyology & Herpetology**. 111:204-221. DOI: 10.1643/i2021053
165. Thomas, M.R., R.E. Blanton, A. Ghezelayagh, and **T.J. Near**. 2023. Species-level recognition and redescription of the Kentucky Arrow Darter, *Etheostoma spilotum* Gilbert (Percidae: *Litocara*). **Bulletin of the Peabody Museum of Natural History**. 64:39-80. DOI: 10.3374/014.064.0103

164. Wood, J.E., R.C. Harrington, Z.D. Alley, M.R. Thomas, J.W. Simmons, and **T.J. Near**. 2023. A new species of spottail darter endemic to the Clarks River in Kentucky and Tennessee (Percidae: Etheostominae: *Etheostoma*). **Bulletin of the Peabody Museum of Natural History**. 64:11-37. DOI: 10.3374/014.064.0102
163. Brownstein, C.D. and T.J. Near. 2023. Phylogenetics and the Cenozoic radiation of lampreys. **Current Biology**. 33:397-404. DOI: 10.1016/j.cub.2022.12.018
162. MacGuigan, D.J., O.D. Orr, and **T.J. Near**. 2023. Phylogeography, hybridization, and species discovery in the *Etheostoma nigrum* complex (Percidae: *Etheostoma*: *Boleosoma*). **Molecular Phylogenetics and Evolution**. 178:107645. DOI: 10.1016/j.ympev.2022.107645
161. Brownstein, C.D., D. Kim, O.D. Orr, G.M. Hogue, B.H. Tracy, M.W. Pugh, R. Singer, C. Myles-McBurney, J.M. Mollish, J.W. Simmons, S.R. David, G. Watkins-Colwell, E.A. Hoffman, and **T.J. Near**. 2022. Hidden species diversity in an iconic living fossil vertebrate. **Biology Letters**. 18:20220395. DOI: 0.1098/rsbl.2022.0395
160. Parker, E., K.L. Zapfe, J. Yadav, B. Bruno Frédérich, C.D. Jones, E.P. Economo, S. Federman, **T.J. Near**, and A. Dornburg. 2022. Periodic environmental disturbance drives repeated ecomorphological diversification in an adaptive radiation of Antarctic fishes. **American Naturalist**. 200:E221-E236. DOI: 10.1086/721373
159. Parker, E. and **T.J. Near**. 2022. Phylogeny reconciles classification in Antarctic plunderfishes. **Ichthyology & Herpetology**. 110:662-674. DOI: 10.1643/i2021126
158. MacGuigan, D.J., G.G. Mount, G.J. Watkins-Colwell, **T.J. Near**, and M.R. Lambert. 2022. Isolation-by-distance dominates population structure in a wide-ranging frog (*Rana clamitans*). **Ichthyology & Herpetology**. 110:602-617. (MacGuigan et al. 2022)
157. Ghezelayagh, A., R.C. Harrington, E.D. Burress, M. Campbell, J.C. Buckner, P. Chakrabarty, J.R. Glass, W.T. McCraney, P.J. Unmack, C.E. Thacker, M.E. Alfaro, S.T. Friedman, W.B. Ludd, P.F. Cowman, M. Friedman, S.A. Price, A. Dornburg, B.C. Faircloth, P.C. Wainwright, and **T.J. Near**. 2022. Prolonged morphological expansion of spiny-rayed fishes following the end-Cretaceous. **Nature Ecology & Evolution**. 6:1211-1220. DOI: 10.1038/s41559-022-01801-3
156. Kim, D., A.T. Taylor, and **T.J. Near**. 2022. Phylogenomics and species delimitation of the economically important Black Basses (*Micropterus*).

Scientific Reports. 12:9113. DOI: 10.1038/s41598-022-11743-2. *Top 100 in Earth, Environment and Ecology – 2022, Scientific Reports.*

155. Kim, D.-M., B.A. Bauer, and *T.J. Near*. 2022. Introgression and species delimitation in the Longear Sunfish *Lepomis megalotis* (Teleostei: Percomorpha: Centrarchidae). **Systematic Biology.** 71:273-285. DOI: 10.1093/sysbio/syab029

154. Melo, B., B. Sidlauskas, *T.J. Near*, F.F. Roxo, A. Ghezelayagh, L.E. Ochoa, M.I. Stiassny, J. Arroyave, J. Chang, B.C. Faircloth, D.J. MacGuigan, R.C. Harrington, R.C. Benine, M.D. Burns, K. Hoekzema, N.C. Sanches, J.A. Maldonado-Ocampo, R.M.C. Castro, F. Foresti, M.E. Alfaro, and C. Oliveria. 2022. Accelerated diversification explains the exceptional species richness of an ancient lineage of tropical freshwater fishes. **Systematic Biology.** 71:78-92. DOI: 10.1093/sysbio/syab040

153. Parker, E., A. Dornburg, C.D. Struthers, C.D. Jones, and *T.J. Near*. 2022. Phylogenomic species delimitation dramatically reduces species diversity in an Antarctic adaptive radiation. **Systematic Biology.** 71:58-77. DOI: 10.1093/sysbio/syab057

152. MacGuigan, D.J., C.W. Hoagstrom, S. Domisch, C.D. Husley, and *T.J. Near*. 2021. Integrative ichthyological species delimitation: reconciling genetic, phenotypic, environmental, and biogeographic evidence in Greenthroat Darter complex (Percidae: Etheostomatinae). **Zoologica Scripta.** 50:707-733. DOI: 10.1111/zsc.12504

151. White, S.L., D.C. Kazyak, R.C. Harrington, M.A. Kulp, J.M. Rash, T.C. Weathers, and *T.J. Near*. 2021. Phenotypic variation in Brook Trout *Salvelinus fontinalis* (Mitchill) at broad spatial scales makes morphology an insufficient basis for taxonomic reclassification of the species. **Ichthyology and Herpetology.** 109:743-752. DOI: 10.1643/i2020154

150. Dornburg, A. and *T.J. Near*. 2021. The emerging phylogenetic perspective on the evolution of actinopterygian fishes. **Annual Review of Ecology, Evolution, and Systematics.** 52:427-452 DOI:10.1146/annurev-ecolsys-122120-122554.

149. Taylor, L.U., E. Benavides, J.W. Simmons, and *T.J. Near*. 2021. Genomic and phenotypic divergence informs translocation strategies for an endangered freshwater fish. **Molecular Ecology.** 30:3394-3407 DOI:10.1111/mec.15947

148. Harrington, R.C., M. Friedman, M. Miya, *T.J. Near*, and M. Campbell. 2021. Phylogenomic resolution of the monotypic and enigmatic *Amarsipus*, the Bagless Glassfish (Teleostei: Amarsipidae). **Zoologica Scripta.** 50:411-422 DOI:10.1111/zsc.12477

147. Glass, J.R., S.R. Santos, J.S.K. Kauwe, B.D. Pickett, and **T.J. Near**. 2021. Phylogeography of two marine predators, Giant Trevally (*Caranx ignobilis*) and Bluefin Trevally (*Caranx melampygus*), across the Indo-Pacific. **Bulletin of Marine Science**. 97:257-280. DOI: 10.5343/bms.2019.0114
146. **Near, T.J.**, D.J. MacGuigan, Emily L. Boring, J.W. Simmons, B. Albanese, B.P. Keck, R.C. Harrington, and G.R. Dinkins. 2021. A new species of bridled darter endemic to the Etowah River system in Georgia (Percidae: Etheostomatinae: *Percina*). **Bulletin of the Peabody Museum of Natural History**. 62:15-42. DOI:10.3374/014.062.0102
145. **Near, T.J.** and D.-M. Kim. 2021. Phylogeny and time scale of diversification in the fossil-rich Sunfishes and Black Basses (Teleostei: Percomorpha: Centrarchidae). **Molecular Phylogenetics and Evolution**. 161:107156 DOI: 10.1016/j.ympev.2021.107156
144. Fan, G., Y. Song, L. Yang, X. Huang, S. Zhang, M. Zhang, X. Yang, Y. Chang, H. Zhang, Y. Li, S. Liu, L. Yu, J. Chu, I. Seim, C. Feng, **T. J. Near**, R. A. Wing, W. Wang, K. Wang, J. Wang, X. Xu, H. Yang, X. Liu, N. Chen and S. He. 2020. Initial data release and announcement of the 10,000 Fish Genomes Project (Fish10K). **GigaScience** 9, 2020:1-8 DOI: 10.1093/gigascience/giaa080
143. La Mesa, M., F. Donato, E. Riginella, C. Papetti, E. Parker, and **T.J. Near**. 2020. Reproductive traits and age of barbled plunderfishes from the Weddell Sea. **Antarctic Science** 33:239-247 DOI: 10.1017/S0954102020000140
142. Moore, J.A. and **T.J. Near**. 2020. Teleostei. In K. de Queiroz, P.D. Cantino, and J. Gauthier (Eds) *Phylonoms: a companion volume to the Phylocode* pp. 716-723. Boca Raton: CRC Press.
141. Moore, J.A. and **T.J. Near**. 2020. Pan-Teleostei. In K. de Queiroz, P.D. Cantino, and J. Gauthier (Eds) *Phylonoms: a companion volume to the Phylocode* pp. 715-717. Boca Raton: CRC Press.
140. Moore, J.A. and **T.J. Near**. 2020. Neopterygii. In K. de Queiroz, P.D. Cantino, and J. Gauthier (Eds) *Phylonoms: a companion volume to the Phylocode* pp. 711-714. Boca Raton: CRC Press.
139. Moore, J.A. and **T.J. Near**. 2020. Pan-Neopterygii. In K. de Queiroz, P.D. Cantino, and J. Gauthier (Eds) *Phylonoms: a companion volume to the Phylocode* pp. 709-710. Boca Raton: CRC Press.
138. Moore, J.A. and **T.J. Near**. 2020. Actinopteri. In K. de Queiroz, P.D. Cantino, and J. Gauthier (Eds) *Phylonoms: a companion volume to the Phylocode* pp. 705-708. Boca Raton: CRC Press.

137. Moore, J.A. and **T.J. Near**. 2020. Pan-Actinopteri. In K. de Queiroz, P.D. Cantino, and J. Gauthier (Eds) *Phylonoms: a companion volume to the Phylocode* pp. 701-703. Boca Raton: CRC Press.
136. Moore, J.A. and **T.J. Near**. 2020. Actinopterygii. In K. de Queiroz, P.D. Cantino, and J. Gauthier (Eds) *Phylonoms: a companion volume to the Phylocode* pp. 695-699. Boca Raton: CRC Press.
135. Moore, J.A. and **T.J. Near**. 2020. Pan-Actinopterygii. In K. de Queiroz, P.D. Cantino, and J. Gauthier (Eds) *Phylonoms: a companion volume to the Phylocode* pp. 691-693. Boca Raton: CRC Press.
134. Moore, J.A. and **T.J. Near**. 2020. Osteichtyes. In K. de Queiroz, P.D. Cantino, and J. Gauthier (Eds) *Phylonoms: a companion volume to the Phylocode* pp. 685-689. Boca Raton: CRC Press.
133. Moore, J.A. and **T.J. Near**. 2020. Pan-Osteichtyes. In K. de Queiroz, P.D. Cantino, and J. Gauthier (Eds) *Phylonoms: a companion volume to the Phylocode* pp. 681-683. Boca Raton: CRC Press.
132. Harrington, R.C., J.W. Simmons, and **T.J. Near**. 2020. The geographic distribution of the imperiled Barrens Darter, *Etheostoma forbesi*, and threats of hybridization with the closely related Fringed Darter, *Etheostoma crossopeterum*. **Bulletin of the Peabody Museum of Natural History**. 61:3-21. DOI: doi.org/10.3374/014.061.0101
131. Yang, L., H. Jiang, Y. Wang, Y. Lei, N. Sun, W. Lv, C. Wang, **T.J. Near**, S. He. 2019. Expansion of vomeronasal receptor genes (OlfC) in the evolution of fright reaction in Ostariophysan fishes. **Communications Biology**. 2:235. DOI: 10.1038/s42003-019-0479-2
130. Friedman, M., K.L. Feilich, H.T. Beckett, M.E. Alfaro, B.C. Faircloth, D. Černý, M. Miya, **T.J. Near**, and R.C. Harrington. 2019. A phylogenomic framework for pelagiarian fishes (Acanthomorpha: Percomorpha) highlights mosaic radiation in the open ocean. **Proceedings of the Royal Society B**. 286: 20191502 DOI: 10.1098/rspb.2019.1502
129. Daane, J. A. Dornburg, P. Smits, D.J. MacGuigan, M.B. Hawkins, **T.J. Near**, H.W. Detrich, III, and M.P. Harris. 2019. Historical contingency shapes adaptive radiation in Antarctic fishes. **Nature Ecology & Evolution**. DOI: 10.1038/s41559-019-0914-2
128. **Near, T.J.**, A. Ghezelayagh, F.P. Ojeda, and A. Dornburg. 2019. Recent diversification in an ancient lineage of notothenioid fishes (*Bovichtus*: Notothenioidei). **Polar Biology**. 42:943-952. DOI: 10.1007/s00300-019-02489-1

127. MacGuigan, D.J. and **T.J. Near**. 2019. Phylogenomic signatures of ancient introgression in a rogue lineage of darters. (Teleostei: Percidae). **Systematic Biology**. 68:329-346. DOI: 10.1093/sysbio/syy074
126. **Near, T.J.**, D.J. MacGuigan, E. Parker, C.D. Struthers, C.D. Jones, and A. Dornburg. 2018. The utility of restriction site associated DNA sequencing (RADseq) for resolving Cenozoic adaptive radiations: a case study of Antarctic notothenioid fishes. **Molecular Phylogenetics and Evolution**. 129:268-279. DOI: 10.1016/j.ympev.2018.09.001
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41. Kawahara, R., M. Miya, K. Mabuchi, *T.J. Near*, and M. Nishida. 2009. Stickleback phylogenies resolved: Evidence from mitochondrial genomes and 11 nuclear genes. **Molecular Phylogenetics and Evolution**. 50:401-404. DOI: 10.1016/j.ympev.2008.10.014
40. Jones, C.D., M.E. Anderson, A.V. Balushkin, G. Duhamel, R.R. Eakin, J.T. Eastman, K.L. Kuhn, G. Lecointre, *T.J. Near*, A.W. North, D.L. Stein, M. Vacchi, H.W. Detrich III. 2008. Abundance, new records and population structure of Antarctic demersal fishes from the northern Scotia Arc islands and Bouvetøya. **Polar Biology**. 31:1481-1497. DOI: 10.1007/s00300-008-0489-x
39. *Near, T.J.* and C.-H.C. Cheng. 2008. Phylogenetics of notothenioid fishes (Teleostei: Acanthomorpha): Inferences from mitochondrial and nuclear gene sequences. **Molecular Phylogenetics and Evolution**. 47:832-840. DOI: 10.1016/j.ympev.2007.11.027
38. *Near, T.J.* 2008. Rescued from synonymy: *Percina bimaculata* Haldeman, and a molecular phylogenetic analysis of logperch darters (Percidae: Etheostomatinae). **Bulletin of the Peabody Museum of Natural History**. 49:1-18. DOI: 10.3374/0079-032X(2008)49[3:RFSARO]2.0.CO;2
37. Bolnick, D.I., M. Turelli, H. López-Fernández, P.C. Wainwright, and *T.J. Near*. 2008. Accelerated mitochondrial evolution and ‘Darwin’s corollary’: Asymmetric viability of reciprocal F₁ hybrids in centrarchid fishes. **Genetics**. 178:1037-1048. DOI: 10.1534/genetics.107.081364
36. Keck, B.P. and *T.J. Near*. 2008. Assessing phylogenetic resolution among mitochondrial, nuclear, and morphological datasets in *Nothonotus* darters (Teleostei: Percidae). **Molecular Phylogenetics and Evolution**. 46:708-720. DOI: 10.1016/j.ympev.2007.08.015
35. *Near, T.J.*, P.A. Meylan, and H.B. Shaffer. 2008. Caveats on the use of fossil calibrations for molecular dating: A reply to Parham and Irmis. **American Naturalist**. 171:137-140. DOI: 10.1086/524201
34. Iverson, J.B., R.M. Brown, T.S. Akre, *T.J. Near*, M. Le, R.C. Thompson, and D.E. Starkey. 2007. In search of the tree of life for turtles. **Chelonian Research**

Monographs. 4:85-106.

33. Page, L.M. and *T.J. Near*. 2007. A new darter from the Upper Tennessee River Drainage related to *Percina macrocephala* (Percidae; Etheostomatinae). **Copeia**. 605-613. DOI: 10.1643/0045-8511(2007)2007[605:ANDFTU]2.0.CO;2
32. Mittelbach, G.G., D. Schemske, H.V. Cornell, A.P. Allen, J.M. Brown, M. Bush, S.P. Harrison, A.H. Hurlbert, N. Knowlton, H.A. Lessios, C.M. McCain, A.R. McCune, L.A. McDade, M.A. McPeck, *T.J. Near*, T.D. Price, R.E. Ricklefs, K. Roy, D.F. Sax, D. Schluter, J.M. Sobel, M. Turelli. 2007. Evolution and the latitudinal diversity gradient: Speciation, extinction, and biogeography. **Ecology Letters**. 10:315-331. DOI: 10.1111/J.1461-0248.2007.01020.X
31. *Near, T.J.*, B.J. Kendrick, H.W. Detrich, III, and C.D. Jones. 2007. Confirmation of neutral buoyancy in *Aethotaxis mitopteryx* DeWitt (Notothenioidei: Nototheniidae). **Polar Biology**. 30:443-447. DOI: 10.1007/s00300-006-0201-y
30. *Near, T.J.*, S.K. Parker, and H.W. Detrich, III. 2006. A genomic fossil reveals key steps in hemoglobin loss by the Antarctic icefishes. **Molecular Biology and Evolution**. 23:2008-2016. DOI: 10.1093/molbev/msl071
29. *Near, T.J.* and M. Hardman. 2006. Phylogenetic relationships of *Noturus stanauli* and *N. crypticus*, two imperiled freshwater fish species from the southeastern United States. **Copeia**. 2006:378-383. DOI: 10.1643/0045-8511(2006)2006[378:PRONSA]2.0.CO;2
28. Bolnick, D.I., *T.J. Near*, D.C. Collar, and P.C. Wainwright. 2006. Body size divergence promotes post-zygotic reproductive isolation in centrarchids. **Evolutionary Ecology Research**. 8:903-913.
27. *Near, T.J.* and B.P. Keck. 2005. Dispersal, vicariance, and timing of diversification in *Nothonotus* darters. **Molecular Ecology**. 14:3485-3469. DOI: 10.1111/j.1365-294X.2005.02671.x
26. Collar, D.C., *T.J. Near*, and P.C. Wainwright. 2005. Comparative analysis of morphological diversity: trophic evolution in centrarchid fishes. **Evolution**. 59:1783-1794. DOI: 10.1111/j.0014-3820.2005.tb01826.x
25. *Near, T.J.*, D.I. Bolnick, and P.C. Wainwright. 2005. Fossil calibrations and molecular divergence time estimates in centrarchid fishes (Teleostei: Centrarchidae). **Evolution**. 59:1768-1782. DOI: 10.1111/j.0014-3820.2005.tb01825.x
24. Bolnick, D.I. and *T.J. Near*. 2005. Tempo of hybrid inviability in centrarchid fishes (Teleostei: Centrarchidae). **Evolution**. 59:1754-1767. DOI:

10.1111/j.0014-3820.2005.tb01824.x

23. *Near, T.J.*, P.A. Meylan, and H.B. Shaffer. 2005. Assessing concordance of fossil calibration points in molecular clock studies: an example using turtles. **American Naturalist**. 165:137-146. DOI: 10.1086/427734

22. *Near, T.J.* and M.F. Benard. 2004. Rapid allopatric speciation in logperch darters. **Evolution**. 58:2798-2808. DOI: 10.1111/j.0014-3820.2004.tb01631.x

21. *Near, T.J.* and M.J. Sanderson. 2004. Assessing the quality of molecular divergence time estimates by fossil calibrations and fossil-based model selection. **Philosophical Transactions of the Royal Society: Biological Sciences**. 359:1477-1483. DOI: 10.1098/rstb.2004.1523

20. *Near, T. J.*, J.J. Pesavento, and C.H. Cheng. 2004. Phylogenetic investigations of Antarctic notothenioid fishes (Perciformes: Notothenioidei) using complete gene sequences of the mitochondrial encoded 16S rRNA. **Molecular Phylogenetics and Evolution**. 32:881-891. DOI: 10.1016/j.ympev.2004.01.002

19. *Near, T.J.*, D.I. Bolnick, and P.C. Wainwright. 2004. Investigating phylogenetic relationships of sunfishes and black basses (Actinopterygii: Centrarchidae) using DNA sequences from mitochondrial and nuclear genes. **Molecular Phylogenetics and Evolution**. 32:344-357. DOI: 10.1016/j.ympev.2003.12.010

18. Hulsey, C.D., F. J. García de León, Y. Sánchez Johnson, D.A. Hendrickson, *T.J. Near*. 2004. Temporal diversification of Mesoamerican cichlid fishes across a major biogeographic boundary. **Molecular Phylogenetics and Evolution**. 31:754-764. DOI: 10.1016/j.ympev.2003.08.024

17. *Near, T.J.* 2004. Estimating divergence times of notothenioid fishes using a fossil-calibrated molecular clock. **Antarctic Science**. 16:37-44. DOI: 10.1017/S0954102004001798

16. Cheng, C. -H. C., L. Chen, *T.J. Near*, and Y. Jin. 2003. Functional antifreeze glycoprotein genes in temperate-water New Zealand nototheniid fish infer an Antarctic origin of speciation. **Molecular Biology and Evolution**. 20:1897-1908. DOI: 10.1093/molbev/msg208

15. Page, L.M., M. Hardman, and *T.J. Near*. 2003. Phylogenetic relationships of barcheck darters (Percidae: *Etheostoma*, Subgenus *Catonotus*) with descriptions of two new species. **Copeia**. 2003:512-530. DOI: 10.1643/CI-02-259R

14. *Near, T.J.*, T.W. Kassler, J.B. Koppelman, C.B. Dillman, and D.P. Phillip. 2003. Speciation in North American black basses, *Micropterus* (Actinopterygii:

Centrarchidae). **Evolution**. 57:1610-1621. DOI: 10.1111/j.0014-3820.2003.tb00368.x

13. **Near, T. J.**, J.J. Pesavento, and C.H. Cheng. 2003. Mitochondrial DNA, morphology, and the phylogenetic relationships of Antarctic icefishes (Notothenioidei: Channichthyidae). **Molecular Phylogenetics and Evolution**. 28:87-98. DOI: 10.1016/S1055-7903(03)00029-0

12. **Near, T. J.**, S.E. Russo, C.D. Jones, and A.L. DeVries. 2003. Ontogenetic shift in buoyancy and habitat in the Antarctic toothfish, *Dissostichus mawsoni* (Perciformes: Nototheniidae). **Polar Biology**. 26:124-128. DOI: 10.1007/s00300-002-0459-7

11. T. W. Kassler, J. B. Koppelman, **T. J. Near**, C. B. Dillman, J. M. Levensgood, D. L. Swofford, J. L. VanOrman, J. E. Claussen, and D. P. Philipp. 2002. Molecular and morphological analyses of the black basses (*Micropterus*): Implications for taxonomy and conservation. D.P. Philipp and M. S. Ridgeway, editors. **American Fisheries Society Symposium**. 31: 291-322.

10. **Near, T. J.** 2002. Phylogeny of the Acanthocephala and insights into the evolution of parasitism. **Integrative and Comparative Biology (formerly American Zoologist)**. 42:668-677. DOI: 10.1093/icb/42.3.668

9. **Near, T. J.** 2002. Phylogenetic relationships of *Percina* (Percidae: Etheostomatinae). **Copeia**. 2002:1-14. DOI: 10.1643/0045-8511(2002)002[0001:PROPPE]2.0.CO;2

8. **Near, T. J.**, L.M. Page, and R. L. Mayden. 2001. Intraspecific phylogeography of *Percina evides* (Percidae: Etheostomatinae): An additional test of the Central Highlands pre-Pleistocene vicariance hypothesis. **Molecular Ecology**. 10:2235-2240. DOI: 10.1046/j.1365-294X.2001.01362.x

7. **Near, T. J.**, J. C. Porterfield, and L. M. Page. 2000. Evolution of cytochrome *b* and the molecular systematics of *Ammocrypta* (Percidae: Etheostomatinae). **Copeia**. 2000:701-711. DOI: 10.1643/0045-8511(2000)000[701:EOCBAT]2.0.CO;2

6. Porterfield, J. C., L. M. Page, and **T. J. Near**. 1999. Phylogenetic analysis among fantail darters (Percidae: *Etheostoma*: *Catonotus*): Total evidence analysis of morphological and molecular data. **Copeia**. 1999:551-564. DOI: 10.2307/1447589

5. Garey, J.R., A. Schmidt-Rhaesa, **T. J. Near**, & S. A. Nadler. 1998. The evolutionary relationships of rotifers and acanthocephalans. **Hydrobiologia**. 387/388:83-91. DOI: 10.1007/978-94-011-4782-8_12

4. Song, C. B., **T. J. Near**, and L. M. Page. 1998. Phylogenetic relationships among percid fishes as inferred from mitochondrial cytochrome *b* DNA sequence data. **Molecular Phylogenetics and Evolution**. 10:343-353. DOI: 10.1006/mpev.1998.0542
3. **Near, T. J.**, J. R. Garey, and S. A. Nadler. 1998. Phylogenetic relationships of the Acanthocephala inferred from 18S ribosomal DNA sequences. **Molecular Phylogenetics and Evolution**. 10:287-298. DOI: 10.1006/mpev.1998.0569
2. Garey, J. R., **T. J. Near**, M. R. Nonnemacher and S. A. Nadler. 1996. Molecular evidence for Acanthocephala as a sub-taxon of Rotifera. **Journal of Molecular Evolution**. 43:287-292. DOI: 10.1007/BF02338837
1. Nadler, S.A., R.L. Lindquist, and **T.J. Near**. 1995. Genetic structure of Midwestern *Ascaris suum* populations: A comparison of isozyme and RAPD markers. **Journal of Parasitology**. 81:385-394. DOI: 10.2307/3283820

Books

- B1. Skelly, D.K. and T. J. Near. 2016. Exploration & discovery: treasures of the Yale Peabody Museum of Natural History. Yale University Press: New Haven. 126 pp.

Edited works

- E1. Collette, B.B. and T.J. Near (editors). 2019. Fishes of the western North Atlantic. Yale University Press: New Haven. 252 pp.

Taxa Described

2023 *Etheostoma xanthovum* Wood & Near

Zoobank: urn:lsid:zoobank.org:act:A3C3C609-DDB6-4EF2-BBD8-10856101757C

2022 *Neodraco* Parker & Near

Zoobank: urn:lsid:zoobank.org:act:489B040E-2B31-48C9-A814-C77310289EDB

2021 *Percina freemanorum* Near & Dinkins

2017 *Percina apina* Near & Simmons

ZooBank: lsid:zoobank.org:pub:86165480-C1BF-4A8B-A67F-6BC9A9DDCFEA

2017 *Etheostoma cyanoprosopum* Near & Kozal

ZooBank: lsid:zoobank.org:pub:C5197186-722C-4B6F-8145-E0CBA7B72CE0

2015 *Etheostoma nebra* Near & Thomas

2014 *Percina brucethompsoni* Robins, Cashner, & Near

2013 *Nothonotus starnesi* Keck & Near

2009 *Pogonophryne stewarti* Eakin, Eastman, & Near

2003 *Etheostoma derivativum* Page, Hardman, & Near

2003 *Etheostoma basilare* Page, Hardman, & Near

Grants

2014-2017. National Science Foundation, Antarctic Organisms and Ecosystems Program, Antarctic Sciences Division. Phylogenomic study of adaptive radiation in Antarctic fishes. **\$396,642.**

2011-2012. National Science Foundation, Evolutionary Genetics. Dissertation Research: The evolutionary history of beryciforms and the contribution of signal and noise to phylogenetic inference in multi-locus datasets. **\$14,970.00.** (Co-PI Alex Dornburg)

2011-2014. National Science Foundation, Systematic Biology and Biodiversity Inventories, Division of Environmental Biology. Collaborative Research: Evolution of Exceptional Diversity in Spiny-Rayed Fishes. **\$ 337,073.**

2010. National Science Foundation, Systematic Biology and Biodiversity Inventories, Division of Environmental Biology. REU Supplement to Collaborative Research: Phylogenetics and key innovations in labroid fishes. **\$7,500.**

2010-2011. National Science Foundation, Evolutionary Genetics. Dissertation Research: Linking population genetic patterns of introgressive hybridization to the breakdown of reproductive barriers in Darters (Percidae). **\$12,684.00.** (Co-PI Christen M. Bossu)

2009-2012. National Science Foundation, Antarctic Organisms and Ecosystems Program, Antarctic Sciences Division. Genomic approaches to resolving phylogenies of Antarctic notothenioid fishes. **\$491,000.**

2009. National Science Foundation, Systematic Biology and Biodiversity Inventories, Division of Environmental Biology. REU Supplement to Collaborative Research: Phylogenetics and key innovations in labroid fishes. **\$7,500.**

2009-2012. National Science Foundation, Biological Research Collections, Division of Biological Infrastructure. Curation of vertebrate spirit specimens of the Yale Peabody Museum of Natural History. **\$350,000** (P.I. R.O. Prum, Co-PI T.J. Near).

2007–2010. National Science Foundation, Systematic Biology and Biodiversity Inventories, Division of Environmental Biology. Collaborative Research: Phylogenetics and key innovations in labroid fishes. **\$324,800** PI T.J. Near, Co-PI W.L. Smith.

News Coverage

2012. Research Highlights. This Week. Antifreeze's role in fish spread. *Nature*. 482:443. Summary of Near, T.J., A. Dornburg, K.L. Kuhn, J.T. Eastman, J.N. Pennington, T. Patarnello, L. Zane, D.A. Fernández, and C.D. Jones. In Press. Ancient climate change, antifreeze, and the evolutionary diversification of Antarctic fishes. *Proceedings of the National Academy of Sciences of the United States of America*.

2009. Editor's Choice. Evolution: Unable to diversify. *Science*. 325: 12. Summary of Collar, D.C, B.C. O'Meara, P.C. Wainwright, and *T.J. Near*. 2009. Piscivory limits diversification of feeding morphology in centrarchid fishes. *Evolution*. 63:1557-1573.

2009. *Yale Bulletin*. 12 June 2009. Scientists Bring Species From Antarctic Seas Back to Peabody (<http://news.yale.edu/2009/06/12/scientists-bring-species-antarctic-seas-back-peabody#>).

Teaching

Yale University

Principles of Ecology and Evolutionary Biology, BIOL 104, (Fall semesters, 2016, 2017, 2021, 2022. Spring semesters 2018, 2019, 2020, 2023)

Evolutionary Biology, E&EB 225b, (Spring semesters, 2014 & 2016)

Ichthyology, E&EB 264a 265La, (Fall semesters, 2006, 2007, 2010, & 2012. Spring semester 2015)

Phylogenetics and Macroevolution, E&EB 426a & 427La, (Fall semesters, 2008 & 2012)

Biogeography & Lineage Diversification Rates, E&EB 840 (Spring semester, 2007)

Adaptive Radiation & Speciation E&EB 712 (Spring semester, 2013)

Species Delimitation E&EB 730 (Fall semester, 2014)

Molecular Evolutionary Models in Phylogenetics, E&EB 930 (Spring semester, 2009)

Diversity of Life, E&EB 160a, three 90 min. lectures covering chordate diversity and evolution (Fall semester 2007)

Perspectives on Science and Engineering SCIE 199, Discussion coordinator (Spring semesters, 2008 & 2011)

Genes, Ecology, and Evolutionary Biology, BIOL S106 (Summer sessions, 2013, 2014, 2015, & 2016)

Conservation & Biodiversity of Aquatic Habitats: Discovery and Description of Biodiversity, E&EB S375 (Summer session, 2014)

Guest lecture, G&G 631 Vertebrate Paleontology (Fall semesters, 2007 & 2008)

Harvard University

Guest lecture, OEB174r Comparative Methods in Ecology and Evolution (Spring semester, 2007)

University of Tennessee

Ichthyology, EEB 474 (Fall semesters, 2003, 2004, and 2005)

Mentorship

Post Doctoral Associates:

Matthew C. Brandley 2008-August 2010

Peter F. Cowman 2014-2016

Ron I. Eytan 2011-2013

Richard C. Harrington 2018-2022

C. Darrin Hulsey 2004-2005

Benjamin P. Keck 2009-2011

Kristen L. Kuhn 2007-2011

Matthew L. Niemiller 2011-2013

Maya Stokes 2020-2022

Dylan Wainwright 2019-2020

Graduate Students:

Christen M. Bossu, University of Tennessee M.S. (2006), Yale University Ph.D. (2013)

Alex Dornburg, Yale University, Ph.D. (2014)

Jessica Glass, Yale University, Ph.D. (2019)

Ava Ghezelayagh, Yale University, Ph.D. (2023)

Richard Harrington, Yale University, Ph.D. (2013)

Phillip R. Hollingsworth, University of Tennessee, M.S. (2006)

Benjamin P. Keck, University of Tennessee, Ph.D. (2009)

Dae-Min Kim, Yale University, Ph.D., Ph.D., (2023)

Daniel MacGuigan, Yale University, Ph.D., (2020)

Elyse Parker, Yale University, Ph.D., (2023)

Raymond Simpson, Yale University, M.S. (2017)

Julia Wood, Yale University, Ph.D., (expected 2027)

Chase D. Brownstein, Yale University, Ph.D., (expected 2029)

Undergraduate Lab Members:

Max Ackerman (2018-2021), Yale University, Senior Essay Project

Lindsay Andsager (2012-2013), Yale University, Senior Essay Project

Nicole C. Ayache (2007-2008), Yale University, Senior Essay Project

Ivana Barnes (2021-2023), Yale University, Senior Essay Project

2023 Winner of the Edgar J. Boell Prize

Gideon S. Bradburd (2007-2008), Yale University, Senior Essay Project

Chase D. Brownstein (2019-2023), Yale University

2023 winner of the William Belknap Prize for Best Thesis in the

Biological Sciences

B. Jacob Kendrick (2003-2005), University of Tennessee

Jordan Colosi (*nee* Gardner) (2006-2009), Yale University, Senior Essay Project,

2009 winner of the Greg Yamanaka Senior Essay Prize

Ethan D. France (2014-2017), Yale University, summer research & paid technician

Jessica Glass (2009-2010), Yale University, Senior Essay Project, 2010 *winner of the Greg Yamanaka Senior Essay Prize*

Mark Havel (2006-2007), Yale University, Senior Essay Project

Thanh Huynh (2010-2012), Yale University, undergraduate researcher

Katherine Kazimer (2008-2009), Yale University, Senior Essay Project

Logan C. Kozal (2013-2015), Yale University, Senior Essay Project 2015, *winner of the Greg Yamanaka Senior Essay Prize*

Bonnie Lee (2006-2007, 2008-2009), Yale University, Senior Essay Project

Spencer Lott, Yale University (2022-2023)

Emily Matykiewicz (2008-2009), Yale University, Senior Essay Project

Evan McCartney-Melstead (2006-2008), Yale University, Senior Essay Project

Amanda Murray (2012-2013), Yale University, Senior Essay Project

Nicole Nakata (2012-2013), Yale University, Senior Essay Project

Chantel (Elyse) Parker (2012-2015), Yale University, summer research, paid technician, & Senior Essay Project

Jillian N. Pennington (2006-2008), Yale University, Senior Essay Project

Adam Taylor (2022-2023), Yale University

University Service

Director of Undergraduate Studies, Ecology & Evolutionary Biology (Fall 2024-present)

Chair, Faculty Committee on Athletics (Fall 2024-present)

Faculty Liaison, Men's Basketball Team, Yale University (Fall 2015-present)

Dwight H. Terry Lectureship Committee, <http://terrylecture.yale.edu/>, (Spring 2017-present; Chair 2024-present)

Chair, Council of the Heads of College Services Committee (Fall 2023-present)

Tenure and appointments Committee, Yale School of the Environment (2018-present)

Planning Committee for the Osborn Memorial Laboratory Renovation (2022-2024)

Search Committee for Assistant Dean of Science and Mathematics, Yale College Dean's Office

Chair, Gordon Grant Fellowship Committee (2017-2019)

Faculty of the Arts and Sciences Tenure and Promotion Implementation Committee (Spring 2017)

Yale University's Faculty Representative to the NCAA (July 2015-July 2017)

Faculty Committee on Athletics, Yale University (Fall 2015-present)

Faculty Liaison, Men's Soccer Team, Yale University (Fall 2016-present)

Search Committee for Athletic Director, Yale University

Fact Finder, Yale College Executive Committee (Fall 2014-Spring 2015)

Yale College Executive Committee (Fall 2010-Spring 2011, Spring 2012, Fall 2012-Spring 2013, Fall 2013-Spring 2014)

Associate Curator of Fishes, Division of Vertebrate Zoology, Yale Peabody Museum of Natural History (2011-present)

Department of Ecology and Evolutionary Biology, Yale University search committee for physiologist faculty search (2014)

Saybrook College Summer Fellowship Committee (Spring 2011)

Yale Institute for Biospheric Studies (YIBS) ECOSAVE Executive Committee (Fall 2010-2013)

Department of Ecology & Evolutionary Biology Undergraduate Curriculum Committee (Fall 2010-present)

Assistant Curator of Fishes, Division of Vertebrate Zoology, Yale Peabody Museum of Natural History (2006-2011)

Acting Director, Division of Vertebrate Zoology, Yale Peabody Museum of Natural History (Fall 2007)

Department of Ecology and Evolutionary Biology, Yale University Graduate Advisory Committee (2007-2008, 2014-2015)

Department of Ecology and Evolutionary Biology, Yale University search committee for ecologist faculty search (2007)

Freshman Academic advisor for Saybrook College, Yale University (2007-2008, 2010-2011)

Department of Ecology and Evolutionary Biology, Yale University seminar coordinator (2006-2007, 2008-2009, 2010-2011)

Yale College Dean's Research Fellowship selection committee (April 2007, 2008, 2013, 2014)

Public Outreach

Fish Tales from the Peabody Museum of Natural History and Yale College. Lecture given at the Peabody Museum of Natural History for the Marsh Fellows. January 2012.

Research mentor for EVOLUTIONS high school program, Yale Peabody Museum of Natural History.

Evolutionary biology as illustrated through diversity of fishes. Lecture and workshop given for ISIS: Educational experiences for practicing science teachers. December 2007.

Evolution on Ice. Lecture given at the Peabody Museum of Natural History for the Marsh Fellows. November 2007.

The diversity of trout and salmon: An evolutionary fish tale. Public lecture given at the Peabody Museum of Natural History. October 2007.

Biodiversity of North American freshwater fishes. Presented to Trout Unlimited, Bridgeport, CT chapter. September 2007.

Awards, Honors, and Fellowships

2011-2012 Yale University Associate Professor Leave (one year research sabbatical)

2009-2010 Yale University Junior Faculty Fellowship (one year research sabbatical)

2009 Northern Illinois University College of Liberal Arts & Sciences Golden Anniversary Alumni Award. www.niu.edu/clas50/50alumni/near.shtml

1997 ASIH Storer Award in Ichthyology for outstanding student poster presentation. American Society of Ichthyologists and Herpetologists meeting, Seattle, Washington, 1997.

1995 Outstanding Student Presentation Award. American Society of Parasitologists meeting, Pittsburgh, Pennsylvania, 1995.

Editorial Service

2016-2019 Editor-In-Chief, *Systematic Biology*

2011-Present Associate Editor, *Systematic Biology*

2010, 2013 Guest Editor, Proceedings of the National Academy of Sciences, USA.

2012-2014 Associate Editor, *Evolution*

2010–Present Editorial Board, *Systematic Biology*

2013-2019 Associate Editor, *Copeia*

Peer Reviews

American Naturalist, Antarctic Science, Biological Conservation, BMC Evolutionary Biology, Copeia, Evolution, Evolutionary Ecology, Journal of Biogeography, Journal of Experimental Zoology, Journal of Fish Biology, Journal of Molecular Evolution, Journal of Parasitology, Molecular Biology and Evolution, Molecular Ecology, Molecular Phylogenetics and Evolution, Nature, Polar Biology, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society B: Biological Sciences, Proceedings of the Southeastern Fishes Council, Science, Systematic Biology, Zoological Journal of the Linnaean Society.

Invited Seminars

Department of Biology, Middle Tennessee State University, September 2023.

Florida Fish and Wildlife Commission, July 2023.

Yale Climate Day, May 2023.

Yale Institute for Biospheric Studies, November 2020.

American Museum of Natural History, May 2019.

Field Museum of Natural History, January 2019.

Department of Biology, Miami University, September 2014.

American Museum of Natural History, April 2014.

Department of Biological Sciences, University of Alabama in Huntsville, October 2013.

Committee on Evolutionary Biology, University of Chicago, April 2013.

Department of Ecology and Evolutionary Biology, Yale University, January 2013.

Department of Biology, University of Mississippi, October 2012.

Yale Institute for Biospheric Studies (YIBS), Yale University, September 2012.

Graduate Program in Marine Biology, College of Charleston, September 2012.

Department of Ecology and Evolutionary Biology, Cornell University, April 2012.

Department of Ecology and Evolutionary Biology, Brown University, April 2012.

California Academy of Sciences, January 2011.

Program in Ecology, Evolutionary Biology, and Conservation, University of Illinois, October 2010.

Ecology and Evolution Seminar Series, University of California, Davis, March 2010

Department of Biological Science, University of Illinois Chicago, December 2009

Department of Ecology and Evolutionary Biology, University of Chicago, November 2009

Program in Ecology, Evolutionary Biology, and Behavior, Michigan State University, October 2009.

American Museum of Natural History, October 2009.

Department of Biological Sciences, Northern Illinois University, September 2009.

Department of Biological Sciences, Southeastern Louisiana University, August 2009.

Biology Department, University of Rochester, November 2008.

Department of Biology & Biochemistry, Northeastern University, November 2008.

Ocean Research Institute, University of Tokyo, Japan, January 2008.

Department of Ecology and Evolution, Stony Brook University, October 2007.
Department of Biological Sciences, Louisiana State University, September 2007.
Yale Institute for Biospheric Studies (YIBS), Yale University, November 2006.
Department of Integrative Biology, University of Texas-Austin, October 2006.
Department of Ecology, Evolution, and Behavior, University of Minnesota,
October 2006.
Department of Ecology and Evolutionary Biology, University of Kansas, August
2006.
Department of Biology, Duke University, October 2005.
Department of Biology, University of Missouri-St. Louis, October 2005.
American Museum of Natural History, October 2005.
Department of Fisheries Biology, Humboldt State University, May, 2005.
Department of Organismic and Evolutionary Biology, Harvard University, March,
2005.
Department of Ecology and Evolutionary Biology, Yale University, February
2005.
Department of Ecology and Evolutionary Biology, University of Michigan,
January 2005.
Department of Biological Sciences, University of Kentucky, September 2003.
Department of Biological Sciences, University of California, San Diego,
September 2002.
Department of Ecology and Evolutionary Biology, University of Tennessee,
Knoxville, February 2002.

Invited Symposia and Keynote Presentations

Plenary speaker at Yale Day of Climate, New Haven, CT USA, May 2023
[<https://www.youtube.com/watch?v=i5Ckmg-zwdg&t=137s>]

Plenary speaker at the FishBase Symposium 2014 Fishes and Genes, Stockholm,
Sweden, October 2014
[<https://www.youtube.com/watch?v=YVXQRzxYDvQ>].

Keynote speaker at the Pardee Symposium on Paleotopography, Geological
Society of America Annual Meeting, Denver, CO, October 2013.

Keynote speaker at the 9th Indo-Pacific Fish Conference, Okinawa, Japan, June 2013.

Keynote speaker at the College of Charleston Graduate Program in Marine Biology Student Research Colloquium, September 2012.

Keynote speaker at the Festival Della Scienza. Genoa, Italy, November 2008.

Keynote speaker at the Year of Darwin, Department of Biology, Case Western Reserve University, October 2008

[<https://www.youtube.com/watch?v=PJjKFVnHBE>].

Plant phylogeny and the origin of major biomes. The Royal Society. London, U.K., March, 2004.

Evolution of Antarctic Organisms (EVOLANTA) meeting, Pontignano, Italy, December 2002.

Lesser-Known Protostome Taxa: Evolution, Development and Ecology. Symposium at the Society of Integrative and Comparative Biology (SICB) meeting, Chicago, Illinois, 2001

Invited Workshops and Research Groups

Scientific Committee on Antarctic Research (SCAR), Workshop: The polar and alpine environments: molecular evolutionary adaptations in prokaryotic and eukaryotic organisms. May 2008. Naples, Italy. Group leaders: Guido di Prisco and Cinzia Verde.

National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara, California, April 2002. Comparative study of adaptive radiations. Group leader: Jonathan Losos.

Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts, August 2005. Turtle genetics workshop. Group leaders: H. Bradley Shaffer and Phillip Q. Spinks.

National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara, California, September 2005. Gradients in biodiversity and speciation. Group leaders: Gary Mittelbach, Howard Cornell, and Douglas Schemske