

## HOLLY K. KINDSVATER, PH.D.

---

Dept. of Fish and Wildlife Conservation  
College of Natural Resources and the Environment  
Virginia Polytechnic Institute and State University  
310 West Campus Drive  
Blacksburg, VA 24061

Email: hkindsvater@vt.edu  
Phone: 540-231-1169

### EDUCATION

- 2011 Ph.D. Ecology and Evolutionary Biology, Yale University (*advisor*: Suzanne H. Alonzo)  
2008 M.S. Ecology and Evolutionary Biology, Yale University  
2003 B.S. Marine Biology (Honors), University of California Santa Cruz

### PROFESSIONAL EXPERIENCE

- 2019- Assistant Professor, Fish and Wildlife Conservation, Virginia Tech  
2016-2019 Assistant Research Professor, Ecology, Evolution, & Natural Resources,  
Rutgers University  
2013-2015 NSF Postdoctoral Fellow in Math and Biology, Simon Fraser University / UCSC  
2012-2013 Visiting postdoctoral scholar, University of British Columbia, Zoology  
2012 Postdoctoral fellow, Yale University, Ecology and Evolutionary Biology

### PUBLICATIONS

- Chong-Montenegro, C. M. and **Kindsvater, H.K.** *In press*. Demographic consequences of small-scale fisheries for two sex-changing groupers of the Tropical Eastern Pacific. *Front. Ecol. Evol.*
- Fark SN, Gerber S, Alonzo SH, **Kindsvater HK**, Meier JI, Seehausen O. *In press*. Multispecies colour polymorphisms associated with contrasting microhabitats in two Mediterranean wrasse radiations. *J. Evol. Biol.*
- Brooks GC and **Kindsvater, HK.** 2022. Early development drives variation in amphibian vulnerability to global change. *Front. Ecol. Evol.* 10:813414. doi: 10.3389/fevo.2022.813414
- Albecker MA, Wilkins LGE, Krueger-Hadfield S, Bashevkin SM, Hahn MW, Hare MP, **Kindsvater HK**, Sewell MA, Lotterhos KE, Reitzel AM. 2021. Does a complex life cycle affect adaptation to environmental change? Genome-informed insights for characterizing selection across complex life cycle? *Proc. R. Soc. B* 288: 20212122. doi: 10.1098/rspb.2021.21
- Alonzo SH, Stiver KA, **Kindsvater HK**, Marsh-Rollo SM, Nugent B, Kazancioglu E. 2021. Ejaculate allocation and sperm characteristics differ among alternative male types in a species of fish with cooperation and competition among unrelated males. *Cells.* **10**: 2612
- Pacoureau N, Rigby C, Kyne PM, Sherley RB, Winker H, Barreto R, Carlson JK, Fernando D, Francis MP, Jabado RW, Fordham SV, Herman KB, Liu KM, Marshall AD, Pollom RA, Romanov EV, Simpfendorfer CA, Yin JS, **Kindsvater HK**, & Dulvy NK. 2021. Half a century of global decline in sharks and rays. *Nature.* **589**: 567–571 doi: 10.1038/s41586-020-03173-9
- Oke KB, Cunningham CJ, Westley PAH, Baskett ML, Carlson SM, Clark J, Hendry AP, Karatayev VA, Kendall NW, Kibele J, **Kindsvater HK**, Kobayashi KM, Lewis B, Munch S, Reynolds JD, Vick GK, & Palkovacs EP. 2020. Consistency, causes, and consequences of body size declines in Pacific salmon. *Nat Commun.* **11**: 4155 doi: 10.1038/s41467-020-17726-z
- Kindsvater HK**, Halvorsen KT, Sordalen TK, Alonzo SH. 2020. The consequences of size-selective fishing mortality for larval production and sustainable yield in species with parental care. *Fish and Fisheries.* **21**: 1135-1149

- Walsh J, Pendray J, Godwin S, Artelle K, **Kindsvater HK**, Field R, Harding J, Swain N, Reynolds J. 2020. Relationships between Pacific salmon and aquatic and terrestrial ecosystems: a quantitative review. *Ecology* 101: e03060
- Sherley R, Winker H, Rigby C, Kyne P, Pollom R, Pacoureaux N, Herman K, Carlson J, Yin J, **Kindsvater HK**, Dulvy NK. 2020. Estimating IUCN Red List population reduction: JARA – a decision-support tool applied to pelagic sharks. *Conservation Letters*. 2020; 13:e12688 doi: 10.1111/conl.12688
- Horswill C, **Kindsvater HK**, Juan-Jordá MJ, Dulvy NK, Mangel M, Matthiopoulos J. 2019. Global reconstruction of life-history strategies for data-limited tuna populations. *J Appl. Ecol.* **2019**, 1-11
- Stiver KA, **Kindsvater HK**, Tamburello N, Heckman KL, Klein J, Alonzo SH. 2018. Intentional multiple mating by females in a species where sneak fertilization circumvents female choice for parental males. *J. Fish Biol.* **93**, 324–333
- Kindsvater HK**, Dulvy NK, Horswill C, Juan-Jordá MJ, Mangel M, Matthiopoulos J. 2018. Overcoming the data crisis in biodiversity conservation. *Trends Ecol. Evol.* **33**, 676-688
- Kindsvater HK**, Palkovacs E. 2017. Predicting eco-evolutionary impacts of fishing on body size and trophic role of Atlantic cod. *Copeia*. **105**, 475-482
- Kindsvater HK**, Reynolds JD, Sadovy de Mitcheson YJ, Mangel M. 2017. Selectivity matters: rules of thumb for management of plate-sized, sex-changing fish in the live reef food fish trade. *Fish and Fisheries*. **18**, 821-836
- Kindsvater HK**, Mangel M, Reynolds JD, & Dulvy NK. 2016. Ten principles from evolutionary ecology essential for effective marine conservation. *Ecol Evol.* **6**, 2125–2138\*  
\* Recommended by Faculty of 1000
- Pardo SA, **Kindsvater HK**, Cuevas-Zimbrón E, Sosa-Nishizaki O, Pérez-Jiménez JC, & Dulvy NK. 2016. Growth, mortality, and relative extinction risk of a data-sparse devil ray. *Scientific Reports*. **6**, 33745
- Pardo SA, **Kindsvater HK**, Reynolds JD, & Dulvy NK. 2016. Maximum intrinsic rate of population increase in sharks, rays, and chimaeras: the importance of survival to maturity. *Can. J. Fish. Aq. Sci.* **73**, 1159-1163
- Weir L, **Kindsvater HK**, Young KA, & Reynolds JD. 2016. Sneaker males influence sexual size dimorphism in anadromous salmon. *American Naturalist*. **188**, 264-271
- Kindsvater HK**, Braun D, Otto SP, & Reynolds JD. 2016. Costs of reproduction explain the correlated evolution of semelparity and egg size: theory and a test with salmon. *Ecology Letters* **19**, 687-696
- Paczolt K, Passow C, Declos P, **Kindsvater HK**, Jones A, & Rosenthal GG. 2015. Multiple mating and reproductive skew in pure and introgressed females of the live-bearing fish *Xiphophorus birchmanni*. *J. Heredity* **106**, 57-66
- Kindsvater HK** & Otto SP. 2014. The evolution of egg size in stage-structured populations. *American Naturalist* **184**, 143-155
- Kindsvater HK** & Alonzo SH. 2014. Females allocate differentially to offspring size and number in response to male effects on female and offspring fitness. *Proc. R. Soc. B* **281**, 20131981†  
† Covered by the Canadian Press, Huffington Post, and the Vancouver Sun
- Kindsvater HK** & Alonzo SH. 2013. Short-term dynamics of territory occupancy in an allopaternal species, the tessellated darter *Etheostoma olmstedi*. *J. Fish Biol.* **82**, 1398–1402
- Kindsvater HK**, Simpson SE, Rosenthal GG, & Alonzo SH. 2013. Male diet, female experience, and female size influence maternal investment in swordtails. *Behav. Ecol.* **24**, 691-697
- Kindsvater HK**, Rosenthal GG, & Alonzo SH. 2012. Maternal size and age shape offspring size in a live-bearing fish, *Xiphophorus birchmanni*. *PLoS ONE* **7**(11), e48473
- Kindsvater HK**, Bonsall MB, & Alonzo SH. 2011. Mortality associated with reproduction could explain variation in offspring size and number *J. Evol. Biol.* **24**, 2230–2240
- Kindsvater HK**, Alonzo SH, Mangel M, & Bonsall MB. 2010. Effects of age- and state-dependent allocation on offspring size and number. *Evol. Ecol. Res.* **12**, 327-346

Mangel M, **Kindsvater HK**, & Bonsall MB. 2007. Evolutionary analysis of life span, competition, and adaptive radiation, motivated by the Pacific rockfishes (*Sebastes*). *Evolution* **61**, 1204-1224

### INVITED PERSPECTIVES AND BOOK CHAPTERS

- Kindsvater HK**, Pacoureaux N, Dulvy NK. 2021. Overfishing endangers oceanic sharks and rays. *ScienceBreaker* [Invited Perspective]. <https://doi.org/10.25250/thescbr.brk566>
- Dulvy NK, **Kindsvater HK**. 2017. The Future Species of Anthropocene Seas. *Conservation for the Anthropocene Ocean*, P Levin & M Coe (Eds). [Book Chapter, peer-reviewed]
- Dulvy NK & **Kindsvater HK**. 2015. Recovering the potential of coral reefs. *Nature*. **520**, 304-305 [Invited Perspective]
- Alonzo SH & **Kindsvater HK**. 2008. Life History Patterns. *General Ecology*. Vol. 3 *Encyclopedia of Ecology*, SE Jorgensen & BD Fath (Eds) pp. 2175-2180 Elsevier, Oxford UK [Book Chapter]

### OTHER PUBLICATIONS

Hamel EM\*, Roethler MG\*, Tremewan C\*, Kindsvater HK. Can the Size of a Fish Mother Determine the Size of Her Offspring? *Frontiers for Young Minds*. *In press*.

### MANUSCRIPTS IN PREP

- Hopkins W, Case C, Groffen J, Brooks GC, Jachowski CMB, Button ST, Halligan JJ, O'Brien, RSM, **Kindsvater HK**. Filial cannibalism leads to chronic nest failure of eastern hellbender salamanders at sites with low upstream forest cover. *Submitted*.
- Horswill C, Manica A, Birkhead T, Burthe SJ, Daunt F, Harris M, Hatchwell B, Thompson PM, Votier SC, Wanless S, Wood MJ, **Kindsvater HK**, & Matthiopoulos J. Environmental variation determines the relative importance of fecundity and survival in long-lived birds. *Submitted*.
- Mull C, Pacoureaux N, Pardo SA, Saldaña Ruiz L, Garcia Rodriguez E, Finucci B, Haack M, Harry A, Judah A, VanderWright W, Yin JS, **Kindsvater HK**, Dulvy NK. Sharkipedia: A curated open access database of shark and ray life history traits and abundance time-series. *Submitted. Scientific Data*.
- Nugent, BM, Stiver KA, Han J, **Kindsvater HK**, Marsh-Rollo S, Hofmann HA, Alonzo SH. Morpholino-mediated knockdown of the brain mineralocorticoid receptor affects glucocorticoid signaling and neuroplasticity in wild ocellated wrasse (*Symphodus ocellatus*). *Submitted. Molecular Ecology*.

### FELLOWSHIPS AND AWARDS

- 2013 NSF Postdoctoral Research Fellowship in Math & Biology
- 2011 American Assoc. University Women Dissertation Fellowship (*declined due to early graduation*)
- 2005 STAR Fellowship; U.S. Environmental Protection Agency
- 2003 Dean's Award for Undergraduate Research (UC Santa Cruz)

### GRANTS

- 2022 Acorn Alcinda Foundation: Biodiversity survey of the vertebrate fauna of Kennedy Tree Farm. **Kindsvater HK (PI)**, Hamed K (co-PI). \$15,000
- 2021-2024 Norwegian Research Council: Computer vision to expand monitoring and accelerate assessment of coastal fish. H Browman (Norwegian Institute of Marine Research; Lead PI), **Kindsvater HK**, and eight other investigators. *Total budget: \$1.37M My share: approximately \$35,000*
- 2021 Acorn Alcinda Foundation: Biodiversity survey of the vertebrate fauna of Kennedy Tree Farm. **Kindsvater HK (PI)**, Hamed K (co-PI). \$15,000
- 2020 - NSF- CNH2: Integrating cross-scale, socio-ecological feedbacks in freshwater fisheries.

- 2025 L Castello (VT; Lead PI), E Brondizio (Indiana University; co-PI), **HK Kindsvater** (VT; co-PI). *Total budget: \$1.6M*
- 2020 - Virginia Tech Center for Coastal Studies Seed grant: Prevalence of microplastics in oyster  
2021 and water samples from Chesapeake Bay in Virginia. R Ovissipour (VT; Lead PI); L Castello (VT; co-PI); **HK Kindsvater** (VT; co-PI); \$15,000.
- 2020 - Virginia Tech Institute for Critical Technology and Applied Science: Understanding effects of  
2021 microplastics on fish health, growth and population ecology. **HK Kindsvater** (VT; Lead PI); R Ovissipour (VT; co-PI); L Castello (VT; co-PI); \$40,000.
- 2018 Shark Conservation Fund: Shark Traits: An Elasmobranch Life History Trait Database. \$25,000, **HK Kindsvater** (Rutgers; Lead PI), C Mull (Rutgers; co-PI).
- 2017 Career-Life Balance Supplement to NSF-DEB/NERC: Informing population models with evolutionary theory to infer species' conservation status: \$28,049, **HK Kindsvater**.
- 2016- NSF-DEB/NERC: Informing population models with evolutionary theory to infer species'  
2022 conservation status. **HK Kindsvater** (Rutgers; Lead PI), M Mangel (UC Santa Cruz; co-PI), J Matthiopoulos (University of Glasgow; co-PI). *Total budget: \$1.55M My share: \$749,433*
- 2009 NSF Doctoral Dissertation Improvement Grant. \$14,967 SH Alonzo (Yale University; Lead PI), H Kindsvater (Yale University; co-PI)

#### INVITED NATIONAL AND INTERNATIONAL PRESENTATIONS

- 2021 Center for the Advancement of Population Assessment Methodology at NOAA NWFSC and University of Washington. Keynote speaker: *Life history diversity, natural mortality, and fisheries reference points*. (postponed in 2020)
- 2021 UC Berkeley. *Evolutionary perspectives on the vulnerability of marine species to overfishing*.
- 2019 University of Houston. *Information from adaptation: How species' life histories help them cope with the Anthropocene*
- 2018 Virginia Tech. *Using species' traits to conserve and manage fish and fisheries*
- 2018 Rutgers University. *Information from adaptation: how species' life histories help them cope with the Anthropocene*
- 2018 UC Santa Barbara. *Fisheries, natural selection and life history*.
- 2018 UC Davis. *Information from adaptation: life history, natural selection, and fishing*.
- 2018 UC Santa Cruz. *Information from adaptation: Using life history to infer natural selection*.
- 2016 Northeastern University. *The ecology of marine life histories: Anadromy, hermaphroditism, and global change*.
- 2016 Stony Brook University. *The ecology of marine life histories*.
- 2016 Larval Fish Conference, Am. Fisheries. Soc. Early Life History section, Solomons, MD *When smaller is better: do females decrease offspring size to improve their own chances of survival?*
- 2016 University of Sheffield, UK *Linking models of reproductive allocation to population dynamics of marine species*.
- 2016 Southern Connecticut State University. *Linking reproductive behavior to population dynamics in fishes*.
- 2015 University of Michigan. *From demography to diversity in fishes*.
- 2015 Florida State University. *The ecology and evolution of life histories in the sea*.
- 2015 NOAA Northwest Fisheries Science Center, Seattle. *The ecology of marine life history evolution: Anadromy, hermaphroditism, and global change*.
- 2014 University of Alaska Anchorage. *The ecology and evolution of life histories in the sea*.
- 2014 University of British Columbia, BC, Canada. *Life histories in the sea*.
- 2013 Simon Fraser University, BC, Canada. *Understanding complexity in life-history evolution. Or, what to do when your fish doesn't fit the theory*.
- 2013 EAWAG Centre for Aquatic Research, Lucerne, Switzerland. *Combining theory and data to understand life-history traits and population dynamics*.

**OTHER PRESENTATIONS**

- 2021 Conrad HM<sup>†</sup> and **Kindsvater HK**. *Contributed poster*. Modelling how changes in the sex ratio at recruitment impact Spawning Potential Ratio in summer flounder. American Fisheries Society; Baltimore, MD.
- 2021 **Kindsvater HK** and Mangel M. *Contributed talk*. In an ecosystem size spectrum, fear and foraging determine fish life histories. AFS meeting; delivered remotely in November 2021.
- 2021 **Kindsvater HK**. *Contributed talk*. Body sizes of tunas are predicted by state-dependent life-history theory within an ecosystem context. ICES meeting; delivered remotely in September 2021 after postponement in 2020.
- 2021 **Kindsvater HK**. *Invited talk*. Developing informative priors on demographic rates to predict the vulnerability of marine species to overfishing. Statistics Colloquium, Virginia Tech
- 2020 **Kindsvater HK**, Halvorsen KT, Sordalen TK, Alonzo SH. *Contributed talk*. The consequences of size-selective fishing mortality for larval production and sustainable yield in species with obligate male care. Virginia and Virginia Tech AFS joint chapter meeting, Lexington, VA.
- 2019 **Kindsvater HK**. *Invited talk*. Using evolutionary theory to inform joint priors on demographic rates of rare marine pelagic fish. MathBio Interdepartmental Seminar Series, Virginia Tech
- 2019 Oke KB, Cunningham C, **Kindsvater HK** and 15 other working group members. *Contributed talk*. Canadian Society of Ecology and Evolution, Fredericton, NB, Canada.
- 2019 Mull C, Pardo S, Harry A, Saldaña Ruiz L, Garcia Rodriguez E, Finucci B, Bird C, Rigby C, Dureuil M, Dulvy NK, **Kindsvater HK**. *Contributed talk*. SharkTraits: A curated open-access database of shark, ray, and chimaera life-history traits. American Elasmobranch Society, Snowbird, UT.
- 2018 Oken, K, **Kindsvater HK**, Provost M, and Jensen, OP. *Contributed talk*. American Fisheries Society, Atlantic City, NJ.
- 2018 **Kindsvater HK**, Mangel M. *Contributed talk*. American Society of Naturalists, Asilomar, CA
- 2016 **Kindsvater HK**. *Contributed talk*. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA.
- 2014 **Kindsvater HK**, Reynolds JD, Mangel M. *Contributed talk*. Int'l Marine Conservation Congress, Glasgow, Scotland.
- 2014 **Kindsvater HK**, Otto SP, Braun D, Reynolds JD. *Contributed talk*. American Society of Naturalists, Asilomar, CA.
- 2014 **Kindsvater HK**, Otto SP. *Contributed talk*. SSE Meeting, Raleigh, NC.
- 2011 Passow CP<sup>‡</sup>, **Kindsvater HK**, Paczolt K, Rosenthal GG. *Poster. Contributed poster*. SSE Meeting, Norman, OK.
- 2011 Simpson SE<sup>‡</sup>, **Kindsvater HK**, Rosenthal, GG. *Contributed poster*. SSE, Norman, OK.
- 2010 Ochoa O<sup>‡</sup>, Rosenthal GG, **Kindsvater HK**. *Contributed poster*. SSE, Portland, OR.
- 2010 **Kindsvater HK**, Alonzo SH, Rosenthal, GG. *Contributed talk*. SSE, Portland, OR.
- 2008 **Kindsvater HK**, Bonsall MB, and Alonzo SH. *Contributed talk*. American Fisheries Society, Ottawa, Ontario, Canada.
- 2006 **Kindsvater HK**. *Contributed poster*. SSE Meeting, Stony Brook University, NY.
- 2006 **Kindsvater HK**, Bonsall MB, and Mangel M. *Contributed poster*. Mote Marine Lab meeting. Theme: Life History and Fisheries. Sarasota, FL.
- 2006 **Kindsvater HK**, Bonsall MB, and Mangel M. *Contributed talk*. Society for Integrative and Comparative Biology meeting, Orlando, FL.
- 2005 **Kindsvater HK**, Bonsall MB, and Mangel M. *Contributed talk*. Ecological Society of America, Montreal, Quebec, Canada.

<sup>†</sup>GRADUATE STUDENT <sup>‡</sup>UNDERGRADUATE STUDENT

**STUDENT AND POSTDOC MENTORSHIP**

## GRADUATE STUDENTS

2020 - Hailey Conrad, MS student, Virginia Tech FWC

2020 - Charlie Holguin, MS student, Virginia Tech FWC, 2020-2021 Dean's Diversity Assistantship Recipient

2020 - Kaitlyn Theberge, MS student, Virginia Tech FWC

#### POSTDOCTORAL SCHOLARS

2021-2022 Nathan Pacoureau

2020-2021 George Brooks

2019 Christopher Mull

#### UNDERGRADUATE STUDENTS

2021- Catharine Carrion (Virginia Tech FWC '24) Julia Coan (Virginia Tech FWC '23), Corinne Duffy

2022 (Virginia Tech FWC '23), Nathan Ferguson (Virginia Tech FWC '23)

2021 Multicultural Academic Opportunities Program REU: Leah Johnson (Hollins University)

2020- Ty Stephenson (Virginia Tech FWC '22), D. Shane Allen (Virginia Tech FWC '21), Sam Van Noy

2021 (Virginia Tech FWC '21), Tom Fitzpatrick 2021 (Virginia Tech FWC '23), Joseph Nichols (Virginia Tech FWC '23), Madeline Burgess (Virginia Tech FWC '22), Kalin Davis (Virginia Tech FWC '23), Miriam Hilt (Virginia Tech FWC '24).

2019 Swati Modwadhia (Rutgers DEENR '21)

2010 Undergraduate thesis students – Courtney Passow and Suzanne Simpson (TAMU '11)

#### GRADUATE COMMITTEE MEMBERSHIP

Emma Hultin (Virginia Tech FWC), Nic Bone (Virginia Tech Biological Sciences)

Katrina Catalano (Rutgers DEENR), Rene Clark (Rutgers DEENR), Sarah Borsetti (Rutgers Dept. of Marine and Coastal Science)

External member – Frieda Benun (CUNY Brooklyn College Biology)

## TEACHING

#### INSTRUCTOR OF RECORD

2021 Population Dynamics and Estimation - FIW 4414, Virginia Tech

2021 Marine and Freshwater Conservation Seminar - FIW 6004, Virginia Tech

2020 Population Dynamics and Estimation - FIW 4414, Virginia Tech

2020 Principles of Fish & Wildlife Conservation FIW 2114 (co-taught, both Spring & Fall), Virginia Tech

2013 Science and Sustainability, University of British Columbia

#### GUEST LECTURES

2021 Conservation and the Environment, ICESI University, Cali, Colombia

2021 Fisheries Management and Conservation, FIW 4714 Virginia Tech

2021 Interfaces of Global Change 1st Year Seminar, GRAD 5134 Freshwater fisheries & Environmental Justice

2020 Fisheries Management and Conservation, FIW 4714 Virginia Tech (2 lectures)

2020 Marine Ecology, FIW 4624 Virginia Tech

2016 Marine Conservation Ecology, Columbia University

2011 Animal Behavior, Yale University

#### WORKSHOP INSTRUCTION

2019 Importing and Cleaning Data in R and the Tidyverse, Rutgers University

2015 Introduction to Linear Mixed-Effects Models in R, Simon Fraser University

2014 Introduction to Statistics in R, Simon Fraser University

#### GRADUATE TEACHING EXPERIENCE

2011 TA: Reproduction and Development lab, Yale University  
 2009 TA: Diversity of Life, Yale University  
 2008 TA: Diversity of Life lab, Yale University  
 2008 TA: Ecology, Evolution, and Behavior, Yale University  
 2007 TA: Ecology, Evolution, and Behavior, Yale University

#### PEDAGOGICAL AND PROFESSIONAL DEVELOPMENT

2021 Center for Excellence in Teaching and Learning - Assessment (2 development credits)  
 2020 Center for Excellence in Teaching and Learning - Course design clinic (12 development credits)  
 2020 Inclusive VT - Summer diversity summit (2 credits)

#### WORKING GROUPS

2019- NSF-RCN Evolving Seas (Invited participant, remote)  
 2020  
 2017- NCEAS - State of Alaska's Salmon and People working group: Consistency, causes, and  
 2018 consequences of declining size and age of Alaskan salmon (Invited participant, 3 meetings)

#### SERVICE TO THE SCIENTIFIC COMMUNITY

2021- Associate Editor, *The American Naturalist*

I have reviewed more than 70 manuscripts for 35 different journals, including *The American Naturalist*, *Aquaculture Research*, *Aquatic Living Resources*, *Behavioral Ecology*, *Bioessays*, *Biological Conservation*, *Biological Reviews*, *Biology Letters*, *Conservation Letters*, *Conservation Physiology*, *Coral Reefs*, *Ecological Applications*, *Ecology*, *Ecology Letters*, *Ecosphere*, *Entomologia Experimentalis et Applicata*, *Evolution*, *Evolutionary Applications*, *Evolutionary Ecology Research*, *Fish and Fisheries*, *Fisheries Research*, *Fishery Bulletin*, *Functional Ecology*, *ICES Journal of Marine Science*, *Journal of Animal Ecology*, *Journal of Evolutionary Biology*, *Journal of Fish Biology*, *Journal of Theoretical Biology*, *Methods in Ecology and Evolution*, *Naturwissenschaften*, *Oecologia*, *Oikos*, *PLoS ONE*, *Proceedings of the Royal Society Series B*, *Reviews in Fish Biology and Fisheries*, *Theoretical Ecology*

#### GRANT PROPOSAL REVIEWS

Panelist: NSF-DEB (two panels since 2016)

#### AD HOC PROPOSAL REVIEWS (2016-PRESENT)

National Science Foundation – Division of Environmental Biology (BIO directorate)  
 National Science Foundation – Division of Ocean Sciences (GEO directorate)  
 Oregon Sea Grant  
 UK Research and Innovation - Biotechnology and Biological Sciences Research Council Discovery Fellowship  
 Virginia Tech - Tech Institute for Critical Technology and Applied Science

#### BOOK PROPOSAL REVIEW

Oxford University Press (2018)

#### DEPARTMENT AND UNIVERSITY SERVICE AT VIRGINIA TECH

2022 Graduate Student Living Wage Committee, Dept. of Fish & Wildlife Conservation

- 2021- Alternate Senator, Virginia Tech Faculty Senate  
PRESENT
- 2021- Undergraduate Affairs Committee, Dept. of Fish & Wildlife Conservation  
PRESENT
- 2021 Department Search Committee, Freshwater Fish Ecology, Dept. of Fish & Wildlife Conservation
- 2021- Fisheries curriculum review committee, Dept. of Fish & Wildlife Conservation  
PRESENT
- 2021 Faculty mentor, Virginia Tech Chapter, American Fisheries Society
- 2021 Interfaces of Global Change IGEP Curriculum committee member and co-instructor of three graduate seminars
- 2021 Panel member, American Fisheries Society Hutton Scholars Summit Conservation Careers Panel
- 2021 Judge, Interfaces of Global Change IGEP Graduate Research Symposium Flash Talks
- 2020- Panel member, VT Graduate course "GRFP Prep", CRN 81632, Instructor, M.C. Mims, 16  
2021 students.
- 2020 Steering Committee for the Community of Practice for Large Courses with the Center for Excellence in Teaching and Learning, Virginia Tech
- 2020 Panel moderator for *Educational Opportunities Beyond Undergraduate Degrees*, panel organized by the Virginia Tech Graduate School Office of Recruitment, Diversity, and Inclusion
- 2019 Department search committee, Mammal Ecology, Dept. of Fish & Wildlife Conservation
- 2019 – Undergraduate Majors Fair – Fish Conservation faculty representative
- 2021

### OUTREACH AND SCIENCE COMMUNICATION

- 2021 Mentor for two American Fisheries Society Hutton Fellow high school interns
- 2019 American Fisheries Society Virginia Tech Chapter meeting (invited seminar)
- 2016 Contributed expertise - 9 *Mobula* ray species listed on App. II of CITES (see Pardo et al. 2016b)
- 2015 Public talk: Beaty Biodiversity Museum Way Cool Seminar, Vancouver, BC
- 2014 Graduate workshop series organizer: *Introduction to Data and Statistics in R*, SFU
- 2014 Public talk: *Parental Care and Reproduction in Fishes* Nerd Nite Vancouver, July 2014
- 2014 Undergraduate Diversity Mentor (two students), SSE/ASN Joint meeting, Raleigh NC
- 2014 Graduate workshop talks: *Writing Engagingly* and *Publicizing Your Work*, Grad workshop, SFU

### CONTRIBUTIONS TO DATA AND SOFTWARE REPOSITORIES

- 2019 - Owner and Maintainer of <https://www.sharkipedia.org/>, an open access database of  
PRESENT elasmobranch trait and time series data
- 2020 Github code repository for Kindsvater et al. 2020 *Fish and Fisheries*.  
<https://zenodo.org/record/3928767#.XyrrRpNKhBw>
- 2016 Dryad data repository for Weir et al *American Naturalist*. <http://dx.doi.org/10.5061/dryad.76rd1>
- 2016 Dryad data repository for Kindsvater et al. *Ecology Letters*. <http://dx.doi.org/10.5061/dryad.8v96r>
- 2016 Github code repository for Pardo et al. *Scientific Reports*.  
<http://dx.doi.org/10.5281/zenodo.3245300>
- 2016 Github repository for Kindsvater et al. *Ecol. Evol.* <http://dx.doi.org/10.5281/zenodo.46789>
- 2015 Dryad data repository for Paczolt et al. *Heredity*. <http://dx.doi.org/10.5061/dryad.878p7>
- 2012 Dryad data repository for Kindsvater et al. *PLoS ONE*. <http://dx.doi.org/10.5061/dryad.rp131>