

HANNAH VANDER ZANDEN

University of Florida, Department of Biology
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EDUCATION

- 2006 – 2012 PhD in Zoology, University of Florida, Gainesville, Florida
Department of Biology
Advised by: Dr. Karen Bjorndal
- 1999 – 2003 BA in Biology, Pomona College, Claremont, California
Honors in Senior Thesis, Minor in Spanish
Advised by: Dr. Jonathan Wright

ACADEMIC APPOINTMENTS

- 2024 – Affiliate, School of Natural Resources and the Environment, University of Florida
2017 – Assistant Professor, Department of Biology & Archie Carr Center for Sea Turtle
Research, University of Florida

PROFESSIONAL EXPERIENCE

- 2016 – 2017 Ecologist, Forest and Rangeland Ecosystem Science Center, U.S. Geological Survey,
advised by Todd Katzner and Dave Nelson (University of Maryland Center for
Environmental Science)
- 2015 – 2016 Research Assistant Professor, Global Change & Sustainability Center, and Department
of Geology & Geophysics, University of Utah
- 2013 – 2014 Postdoctoral Fellow, Inter-university Training for Continental-Scale Ecology Program,
Global Change & Sustainability Center and Department of Geology & Geophysics,
University of Utah, advised by Gabe Bowen, Mike Wunder (University of Colorado
Denver), and Keith Hobson (Environment Canada)
- 2012 – 2013 Stolarz Conservation Fellow (Postdoctoral Associate), Department of Biology,
University of Florida, advised by Brian Silliman and Karen Bjorndal
- 2003 – 2005 Natural Resource Management Extension Agent, US Peace Corps in Senegal

GRANTS/FELLOWSHIPS

- 2024 – 2025 Sea Turtle Grant Program. Understanding genetic structure and population history of
leatherback sea turtles in Florida. PI: HB Vander Zanden. \$12,882
- 2022 – 2023 National Institute of Justice. Compound-specific stable isotope ratios in human keratin
tissues for travel history reconstruction and region-of-origin determination. PI: C
Mancuso, Co-PIs: S Newsome and HB Vander Zanden. UF budget \$18,819 of
\$320,732
- 2020 – 2024 Florida RESTORE Act Centers of Excellence Program. Tissue clocks: new methods for
aging and decoding sea turtle life histories. PI: HB Vander Zanden, Co-PIs: WF
Patterson, III and DD Chagaris. \$395,365

- 2020 – 2022 US Fish and Wildlife Service, Migratory Bird Joint Ventures. Evaluating stable hydrogen isotopes for identifying breeding areas of harvested sea ducks. \$59,500. PI: DM Nelson, Co-PIs, TE Katzner and HB Vander Zanden. UF budget: \$13,266 of \$39,937
- 2020 – 2022 National Academies Gulf Research Program 200011124. Moving upstream: Quantifying material flow between estuaries and coastal rivers. PI: CJ Patrick, Co-PI: HB Vander Zanden. UF budget: \$34,853 of \$129,215
- 2019 – 2021 US Geological Survey G19AC00373: Habitat partitioning of sea turtle species at a temperate foraging ground. PI: HB Vander Zanden. \$59,500
- 2018 – 2020 National Academies Gulf Research Program Early-Career Research Fellowship: Spatial ecology and movement of marine megafauna in the Gulf of Mexico. PI: HB Vander Zanden. \$76,000
- 2018 US Geological Survey G18AC00051: Renewable energy impacts to wildlife. PI: HB Vander Zanden. \$27,450
- 2018 University of Florida University Scholars Program for undergraduate research. PI: HB Vander Zanden. \$500
- 2016 – 2021 NSF DBI 1565128: Collaborative Research: ABI Development ORIGIN: Origin Inference from Geospatial Isotope Networks. PI: GJ Bowen, Co-PI: HB Vander Zanden. UofU budget \$719,632
- 2012 Florida Sea Turtle Grant Program 12-027R: Using long-term isotopic records to reveal loggerhead foraging patterns in the Gulf of Mexico. PI: KA Bjorndal. \$25,386
- 2011 UF Association for Academic Women: Madelyn Lockhart Dissertation Fellowship. \$1,000
- 2010 PADI Foundation 4067: Ecology of individuals: sea turtle dietary specialization. \$6,100
- 2010 Sigma Xi Grant in Aid of Research: Loggerhead dietary specialization. \$400
- 2010 UF Department of Biology John Paul Olowo Memorial Research Grant. \$300
- 2010 UF Graduate Student Council Research Award. \$250
- 2007 NSF Graduate Research Fellowship. \$122,500
- 2005 USAID Small Project Assistance Grant for local project in Senegal. \$2,200

PUBLICATIONS (^Uundergraduate student, ^Ggraduate student, ^Ppostdoctoral researcher, [#]co-first or co-last author)

In prep

- Bennett JD^U, Wallace AA^P, Patterson III WF, **Vander Zanden HB**. Validating radiocarbon aging in sea turtle hatchling eye lenses. *Bulletin of Marine Science*. (in prep)
- Davis KR^G, **Vander Zanden HB**. Parts of a whole: isotopic offset between single keratin-based tissues and whole body values of birds and mammals. (in prep) *Rapid Communications in Mass Spectrometry*.
- Campbell CJ^G, Cheng T, **Vander Zanden HB**. Migratory bats resistant to white-nose syndrome as cryptic vectors of fungal disease spread. (in prep) *Journal of Animal Ecology*.
- Lamont MM, Arends C^G, Catizone D, **Vander Zanden HB**. Stable isotope analysis informs foraging ecology of diamondback terrapins in seagrass dominated coastal bay. (in prep) *Estuaries and Coasts*.
- Linscott B^{#P}, Wallace AA^{#P}, Fireman AL, Becerra-Valdivia L, Patterson III WF, **Vander Zanden HB**. Determining scute growth rates in loggerhead and green sea turtles: insights from Bayesian age-depth modelling of bomb radiocarbon data. (in prep) *Proceedings Royal Society B*.
- Seminoff JA, Ceriani, SA, Lemons GE, Ramirez DM, Turner Tomaszewicz CN, **Vander Zanden HB**. Techniques in preservation and preparation of sea turtle tissues for stable isotope analysis. In

Rees A, Fuentes M, Phillot A (Eds.) (in prep) *Research and Management Techniques for the Conservation of Sea Turtles*. 2nd edition.

Submitted

- Campbell CJ^G, Nelson DM, Nagel J, Clerc J, Weller T, Weiringa JG, Fraser E, Longstaffe FJ, Hale AM, Lout M, Pruitt L, Guralnick R, **Vander Zanden HB**. Unusual migratory strategy a key factor in driving interactions at wind energy facilities in at-risk bats. (in review) *Science Advances*.
- Contina A, Yanco SW, Pierce AK, **Vander Zanden HB**, Stricker CA, Bowen GJ, Wunder MB. Dynamic environments generate geographic fluctuations in population structure of an inland shorebird. (in review) *Ecology*.
- Fireman AL, Stapleton SP, **Vander Zanden HB**, Liang D, Woodland RJ. Ecological niche use varies with sea turtle reproductive age. (in revision) *Marine Biology*.
- Kinard S, Patrick CJ, Solis A, **Vander Zanden HB**. Hydrogen stable isotopes and enclosure experiments demonstrate mechanistic shift in algal dependency in arid, freshwater food-webs along a rainfall gradient. (in review) *Freshwater Science*.
- Vander Zanden HB**, Cardona L, Hatase H, Ramirez MD, Turner Tomaszewicz CN, Seminoff JA. Stable isotope approaches to examine sea turtle ecology. In Rees A, Fuentes M, Phillot A (Eds.). (in review) *Research and Management Techniques for the Conservation of Sea Turtles*. 2nd edition.

2024

42. Zenzal TJ, Contina A, **Vander Zanden HB**, Kuwahara LK, Allen D, Covino KM. Asynchronous movement patterns between breeding and stopover locations in a long-distance migratory songbird. (In press) *Avian Conservation and Ecology*.
41. Shipley O, Dabrowski AJ, Bowen GJ, Hayden B, Pauli JN, Jordan C, Anderson L, Bailey A, Bataille CP, Cicero C, Close HG, Cook C, Cook JA, Desai AR, Evaristo J, Filley T, France CAM, Kim SL, Kopf S, Loisel J, Manlick PJ, McFarlin JM, McMeans BC, O'Connell T, Semmens BX, Stantis C, Szejner P, Pilaar Birch SE, Putman AL, Stricker CA, Trammell TLE, Uhen MD, Weintraub-Leff S, Wooller MJ, Williams JW, Yarnes CT, **Vander Zanden HB**, Newsome SB. Design, development, and implementation of IsoBank: a centralized repository for isotopic data. (In press) *PLoS ONE*.
40. **Vander Zanden HB**, Nelson DM, Conkling TJ, Allison TD, Diffendorfer JE, Dietsch TV, Fesnock AL, Loss SR, Ortiz PA, Paulman R, Rogers KH, Sanzenbacher PM, Katzner TE. (2024) The geographic extent of birds affected by renewable-energy development. *Conservation Biology*. e14191. doi: [10.1111/cobi.14191](https://doi.org/10.1111/cobi.14191)
39. Arends C^G, Lamont ML[#], **Vander Zanden HB**[#]. (2024) Variation in resource partitioning of three sea turtle species at a temperate foraging ground. *Marine Biology*. 171(1): 2. doi: [10.1007/s00227-023-04317-x](https://doi.org/10.1007/s00227-023-04317-x)

2023

38. Hardeman Jr. DW, **Vander Zanden HB**, McCown JW, Scheick BK, McCleery RA. Black bear behavior and movements are not definitive measures of anthropogenic food use. *Animals*. 13(5): 950. doi: [10.3390/ani13050950](https://doi.org/10.3390/ani13050950).
37. Derville S, Torres LG, Newsome SD, Somes CJ, Valenzuela LO, **Vander Zanden HB**, Baker CS, Bérubé M, Busquets-Vass G, Carlyon K, Childerhouse SJ, Constantine R, Dunshea G, Flores PAC, Golsdworthy S, Graham B, Groch K, Gröcke D, Harcourt R, Hindell MA, Hulva P, Jackson JA, Kennedy AS, Lundquist D, Mackay A, Neveceralova P, Olivera L, Ott PH, Palsbøll PJ, Patenaude N, Rowntree V, Sironi M, Vermeulen E, Watson M, Zerbini AN, Carroll EL. (2023) Long-term stability in the circumpolar foraging range of a Southern Ocean predator between eras of whaling and rapid climate change. *Proceedings of the National Academy of Sciences*. 120(10) e2214035120. doi: [10.1073/pnas.2214035120](https://doi.org/10.1073/pnas.2214035120).

2022

36. Campbell CJ^G, Nelson DM, Gates JE, Gibbs HL, Stevenson ER, Johnson B, Nagel J, Trott R, Wieringa JG, **Vander Zanden HB**. (2022) White-nose syndrome pathogen detected on migratory tree-roosting bats. *Journal of Wildlife Diseases*. 58(3): 652-657. doi: [10.7589/JWD-D-21-00160](https://doi.org/10.7589/JWD-D-21-00160).
35. Conkling TJ, **Vander Zanden HB**, Allison TD, Diffendorfer JE, Dietsch TV, Duerr AE, Fesnock AL, Hernandez RR, Loss SR, Nelson DM, Sanzenbacher PM, Yee JL, Katzner TE. (2022) Vulnerability of avian populations to renewable energy production. *Royal Society Open Science*. 9(3): 211588. doi: [10.1098/rsos.211588](https://doi.org/10.1098/rsos.211588).
34. Contina A, Magozzi S, **Vander Zanden HB**, Bowen GJ, Wunder MB. Optimizing stable isotope sampling design in terrestrial movement ecology. (2022) *Methods in Ecology and Evolution*. 13(6): 1237-1249. doi: [10.1111/2041-210X.13840](https://doi.org/10.1111/2041-210X.13840).

2021

33. Pagès Barceló L, Seminoff JA, **Vander Zanden HB**, Jones TT, Bjørndal KA, Bolten AB, Mustin W, Busquets-Vass G, Newsome SD. (2021) Hydrogen isotope assimilation and discrimination in green sea turtles (*Chelonia mydas*). *Journal of Experimental Biology*. 224(7): jeb231431. doi: [10.1242/jeb.231431](https://doi.org/10.1242/jeb.231431)
32. Magozzi S, Bataille CP, Hobson KH, Wunder MB, Howa JD, Contina A, **Vander Zanden HB**, Bowen GJ. (2021) Calibration chain transformation improves the comparability of organic hydrogen and oxygen stable isotope data. *Methods in Ecology and Evolution*. doi: [10.1111/2041-210X.13556](https://doi.org/10.1111/2041-210X.13556)

2020

31. Magozzi S, **Vander Zanden HB**, Wunder MB, Trueman CN, Pinney K, Peers D, Dennison PE, Horns JJ, Şekercioğlu ÇH, Bowen GJ. (2020) Combining models of environment, behavior, and physiology to predict tissue hydrogen and oxygen isotope variance among individual terrestrial animals. *Frontiers in Ecology and Evolution*. 8: article 536109. doi: [10.3389/fevo.2020.536109](https://doi.org/10.3389/fevo.2020.536109)
30. Ma C, **Vander Zanden HB**, Wunder MB, Bowen GJ (2020) *assignR*: An R package for isotope-based geographic assignment. *Methods in Ecology and Evolution*. 11(8), 996-1001. doi: [10.1111/2041-210X.13426](https://doi.org/10.1111/2041-210X.13426)
29. Campbell CJ^G, Fitzpatrick MC, **Vander Zanden HB**, Nelson DM. (2020) Advancing interpretation of stable isotope assignment maps: comparing and summarizing origins of known-provenance migratory bats. *Animal Migration*. 7(1), 27-41. doi: [10.1515/ami-2020-004](https://doi.org/10.1515/ami-2020-004)
28. Pfaller JB[#], Pajuelo M[#], **Vander Zanden HB**, Andres KM, Dodd MG, Godfrey MH, Griffin DB, Ondich BL, Pate SM, Williams KL, Shamblin BM, Nairn CJ, Bolten AB, Bjørndal KA. (2020) Identifying foraging-area origins in breeding aggregations of migratory species: loggerhead turtles in the Northwest Atlantic. *PLoS ONE*. 15(4): e0231325. doi: [10.1371/journal.pone.0231325](https://doi.org/10.1371/journal.pone.0231325)
27. Katzner TE, Braham MA, Conkling TJ, Diffendorfer JE, Duerr AE, Loss SR, Nelson DM, **Vander Zanden HB**, Yee JL. (2020) Assessing population-level consequences of anthropogenic stressors on terrestrial wildlife. *Ecosphere*. 11:e03046. doi: [10.1002/ecs2.3046](https://doi.org/10.1002/ecs2.3046)

2019

26. Katzner TE, Nelson DM, Diffendorfer JE, Duerr AE, ^GCampbell CJ, Leslie D, **Vander Zanden HB**, Yee JL, Sur M, Huso MMP, Braham MA, Morrison ML, Loss SR, Poessel SA, Conkling TJ, Miller TA. (2019) Wind power: An ecological challenge. *Science*. 366: 1206-1207. doi: [10.1126/science.aaz9989](https://doi.org/10.1126/science.aaz9989)
25. Magozzi S, **Vander Zanden HB**, Wunder MB, Bowen GJ. (2019) Mechanistic model predicts tissue-environment relationships and trophic shifts in animal hydrogen and oxygen isotope ratios. *Oecologia*. 191(4): 777-789. doi: [10.1007/s00442-019-04532-8](https://doi.org/10.1007/s00442-019-04532-8)

2018

24. **Vander Zanden HB**[#], Chaffee CL[#], González-Rodríguez A, Flockhart DTT, Norris DR, Wayne ML. (2018) Alternate migration strategies of eastern monarch butterflies (*Danaus plexippus*) revealed by stable isotopes. *Animal Migration*. 5: 74-83. doi: [10.1515/ami-2018-0006](https://doi.org/10.1515/ami-2018-0006).
23. **Vander Zanden HB**, Nelson DM, Wunder MB, Conkling TJ, Katzner TE. (2018) Application of stable isotopes to determine geographic origin of terrestrial wildlife for conservation and management. *Biological Conservation*. 288:268-280. doi: [10.1016/j.biocon.2018.10.019](https://doi.org/10.1016/j.biocon.2018.10.019)
22. **Vander Zanden HB**, Reid A, Katzner TE, Nelson DM. (2018) Effect of heat and singeing on stable hydrogen isotope ratios of feathers and implications for their use in determining geographic origins. *Rapid Communications in Mass Spectrometry*. 32:1859-1866. doi: [10.1002/rcm.8253](https://doi.org/10.1002/rcm.8253)

2017

21. Price JT, Pfaller JB, **Vander Zanden HB**, Williams KL, Bolten AB, Bjorndal KA. (2017) Foraging area, not trophic position, linked to head size variation in adult female loggerheads. *Journal of Zoology*. 302: 279-287. doi: [10.1111/jzo.12456](https://doi.org/10.1111/jzo.12456)
20. Magozzi S, Yool A, **Vander Zanden HB**, Wunder MB, Trueman CN. (2017) Using ocean models to predict spatial and temporal variation in carbon isoscapes. *Ecosphere*. 8: e0173. doi: [10.1002/ecs2.1763](https://doi.org/10.1002/ecs2.1763)

2016

19. Rees AF, Alfaro-Shigueto J, Barata PCR, Bjorndal KA, Bolten AB, Bourjea J, Broderick AC, Campbell LM, Cardona L, Carreras C, Casale P, Ceriani SA, Dutton PH, Eguchi T, Formia A, Fuentes MMPB, Fuller WJ, Girondot M, Godfrey MH, Hamann M, Hart KM, Hays GC, Hochscheid S, Kaska Y, Jensen MP, Mangel JC, Mortimer JA, Naro-Maciel E, Ng CKY, Nichols WJ, Phillott AD, Reina RD, Revuelta O, Schofield G, Seminoff JA, Shanker K, Tomás J, van de Merwe JP, Van Houtan KS, van de Merwe J, **Vander Zanden HB**, Wallace BP, Wedemeyer-Strombel KR, Work TM, Godley BJ. (2016) Are we working towards global research priorities for management and conservation of sea turtles? *Endangered Species Research*. 31: 337-382. doi: [10.3354/esr00801](https://doi.org/10.3354/esr00801)
18. **Vander Zanden HB**, Bolten AB, Tucker AD, Hart KM, Lamont MM, Fujisaki I, Reich KJ, Addison DS, Mansfield KL, Phillips K, Pajuelo M, Bjorndal KA. (2016) Biomarkers reveal sea turtles remained in oiled areas following the *Deepwater Horizon* oil spill. *Ecological Applications*. 26: 2145-2155. doi: [10.1002/eap.1366](https://doi.org/10.1002/eap.1366)
17. **Vander Zanden HB**, Soto DX, Bowen GJ, Hobson KA. (2016) Expanding the isotopic toolbox: applications of hydrogen and oxygen stable isotope ratios for food web studies. *Frontiers in Ecology and Evolution*. 4:20. doi: [10.3389/fevo.2016.00020](https://doi.org/10.3389/fevo.2016.00020)

2015

16. **Vander Zanden HB**, Wunder MB, Hobson KA, Van Wilgenburg SL, Wassenaar LI, Welker JM, Bowen GJ. (2015) Space-time tradeoffs in the development of precipitation-based isotope models for determining migratory origin. *Journal of Avian Biology*. 46: 658-667. doi: [10.1111/jav.00656](https://doi.org/10.1111/jav.00656)
15. **Vander Zanden HB**, Tucker AD, Hart KM, Lamont MM, Fujisaki I, Addison DS, Mansfield KL, Phillips K, Wunder MB, Bowen GJ, Pajuelo M, Bolten AB, Bjorndal KA. (2015) Determining foraging area origin in a migratory marine vertebrate by integrating stable isotope analysis and satellite tracking: a novel approach. *Ecological Applications*. 25: 320-335. doi: [10.1890/14-0581.1](https://doi.org/10.1890/14-0581.1)

2014

14. ^UKaufman TJ, Pajuelo M, Bjorndal KA, Bolten AB, Pfaller JB, Williams KL, **Vander Zanden HB**. (2014) Mother-egg stable isotope conversion factors and effects of lipid extraction and ethanol

preservation on loggerhead eggs. *Conservation Physiology*. 2:cou049. doi: [10.1093/conphys/cou049](https://doi.org/10.1093/conphys/cou049)

13. **Vander Zanden HB**, Wunder MB, Hobson KA, Van Wilgenburg SL, Wassenaar LI, Welker JM, Bowen GJ. (2014) Contrasting assignment of migratory organisms to geographic origins using long-term versus year-specific precipitation isotope maps. *Methods in Ecology and Evolution*. 5: 891-900. doi: [10.1111/2041-210X.12229](https://doi.org/10.1111/2041-210X.12229)
12. **Vander Zanden HB**, Tucker AD, Bolten AB, Reich KJ, Bjorndal KA. (2014) Stable isotopic comparison between loggerhead sea turtle tissues. *Rapid Communications in Mass Spectrometry*. 28: 2059-2064. doi: [10.1002/rcm.6995](https://doi.org/10.1002/rcm.6995)
11. Bowen GJ, Liu Z, **Vander Zanden HB**, Zhao L, Takahashi G. (2014) Geographic assignment with stable isotopes in IsoMAP. *Methods in Ecology and Evolution*. 5:201-206. doi: [10.1111/2041-210X.12147](https://doi.org/10.1111/2041-210X.12147)
10. **Vander Zanden HB**, Pfaller JB, Reich KJ, Pajuelo M, Bolten AB, Williams KL, Frick MG, Shamblin BM, Nairn CJ, Bjorndal KA. (2014) Different foraging areas affect reproductive output and interpretation in trends in abundance of loggerhead turtles. *Marine Biology*, 161:585-598. doi: [10.1007/s00227-013-2361-y](https://doi.org/10.1007/s00227-013-2361-y)

2013

9. **Vander Zanden HB**, Bjorndal KA, Bolten AB. (2013) Temporal consistency and individual specialization in resource use by green turtles in successive life stages. *Oecologia*. 173:767-777. doi: [10.1007/s00442-013-2655-2](https://doi.org/10.1007/s00442-013-2655-2)
8. **Vander Zanden HB**, Arthur KE, Bolten AB, Popp BN, Lagueux CJ, Harrison E, Campbell CL, Bjorndal KA. (2013) Trophic ecology of a green turtle breeding population. *Marine Ecology Progress Series*. 476: 237-249. doi: [10.3354/meps10185](https://doi.org/10.3354/meps10185)

2012

7. Pajuelo M, Bjorndal KA, Reich KJ, **Vander Zanden HB**, Hawkes LA, Bolten AB. (2012) Assignment of nesting loggerhead turtles to their foraging areas in the Northwest Atlantic using stable isotopes. *Ecosphere*. 3:art89. doi: [10.1890/ES12-00220.1](https://doi.org/10.1890/ES12-00220.1)
6. **Vander Zanden HB**, Bjorndal KA, Mustin W, Ponciano JM, Bolten AB. (2012) Inherent variation in stable isotope values and discrimination factors in two age-classes of green turtles. *Physiological and Biochemical Zoology*. 85:431-441. doi: [10.1086/666902](https://doi.org/10.1086/666902)
5. ^UFrankel NS, **Vander Zanden HB**, Reich KJ, Williams KL, Bjorndal KA. (2012) Maternal-offspring stable isotope discrimination in loggerhead sea turtles (*Caretta caretta*). *Endangered Species Research*. 17:133-138. doi: [10.3354/esr00412](https://doi.org/10.3354/esr00412)
4. **Vander Zanden HB**, Bjorndal KA, Inglett PW, Bolten AB. (2012) Marine-derived nutrients from green turtle nests subsidize terrestrial beach ecosystems. *Biotropica*. 44: 294-301. doi: [10.1111/j.1744-7429.2011.00827.x](https://doi.org/10.1111/j.1744-7429.2011.00827.x)

2010 and prior

3. **Vander Zanden HB**, Bjorndal KA, Reich KJ, Bolten AB. (2010) Individual specialists in a generalist population: results from a long-term stable isotope series. *Biology Letters*. 6: 711-714. doi: [10.1098/rsbl.2010.0124](https://doi.org/10.1098/rsbl.2010.0124)
2. Hou C, Kaspari M, **Vander Zanden HB**, Gillooly, JF. (2010) The energetic basis of colonial living in social insects. *Proceedings of the National Academy of Sciences*. 107: 3634-3638. doi: [10.1073/pnas.0908071107](https://doi.org/10.1073/pnas.0908071107)
1. Möllhoff M, **Vander Zanden HB**, Shiflett PR, and G Gupta. (2005) Modeling of receptor mimics that inhibit superantigen pathogenesis. *Journal of Molecular Recognition*. 18: 73-83. doi: [10.1002/jmr.684](https://doi.org/10.1002/jmr.684)

OTHER CONTRIBUTIONS

5. Conkling TJ, **Vander Zanden HB**, Poessel S, Loss SR, Allison TD, Diffendorfer JE, Duerr AE, Nelson DM, Yee JL, Katzner TE. Learning from real-world experience to understand renewable energy impacts to wildlife. (2020) Energy Research and Development Division Final Research Report. California Energy Commission. Publication Number: CEC-500-2020-012. <https://pubs.er.usgs.gov/publication/70209127>
4. García-Cruz MA, Campbell C, Bjorndal KA, Cardona Pascual L, Rodríguez-Clark KM, Lampo M, **Vander Zanden HB**, Fuentes MMPB, Pibernat L, Solorzano E, Bolten AB. (2018) Solving the mysteries of male turtles in the Caribbean. *The State of the World's Sea Turtles* Report XIII: 10-11. <https://www.seaturtlestatus.org/swot-report-13/>
3. Love M, Robbins C, Baldera A, Eastman S, Bolten AB, Hardy R, Herren R, Metz T, **Vander Zanden HB**, Wallace B. (2017) Restoration without borders: An assessment of cumulative stressors to guide large-scale, integrated restoration of sea turtles in the Gulf of Mexico. Ocean Conservancy Report. https://oceanconservancy.org/wp-content/uploads/2017/10/Restoration_without_Borders.pdf
2. **Vander Zanden HB**, Chesson LA. (2017) Stable isotope data interpretation: forensic applications and examples. Carter JF and Chesson LA (editors) *Food Forensics: Stable Isotopes as a Guide to Authenticity and Origin*. CRC Press.
1. **Vander Zanden HB**. (2014) Invisible records reveal new understandings. *The State of the World's Sea Turtles*. Report IX: 28-29. seaturtlestatus.org/sites/swot/files/report/042814_SWOT9_28-29_Vander_Zanden.pdf

AWARDS

- | | |
|------|--|
| 2012 | Graduate Student Mentor Award, UF Howard Hughes Medical Institute Science for Life Program |
| 2011 | Best Student Poster Award, International Symposium on Sea Turtle Biology and Conservation |
| 2011 | Graduate Student Service Award, UF Department of Biology |
| 2011 | Best Graduate Student Paper Honorable Mention, UF Department of Biology |
| 2010 | Graduate Student Presentation Honorable Mention, UF Marine Biology Symposium |
| 2010 | Best image in Elegance in Science Photo Contest, UF Marston Library |

TRAVEL GRANTS

- | | |
|-------------|--|
| 2023 | CLAS Faculty Travel Award |
| 2013 | Postdoc Travel Assistance Award, UofU Graduate School |
| 2011 – 2012 | Travel Grant, UF College of Liberal Arts and Sciences (2x) |
| 2007 – 2011 | Travel Grant, UF Department of Biology/Zoology (5x) |
| 2007 – 2012 | Travel Award, UF Graduate Student Council (4x) |

TEACHING EXPERIENCE

University of Florida (instructor of record)

- | | |
|----------|--|
| BSC2011 | Integrated Principles of Biology II (S2019, S2021, S2023, S2024) |
| PCB4043C | General Ecology (F2017, F2018, F2021, F2023) |
| PCB6049 | Seminar in Ecology (also called PEERS; F2021, F2023) |
| ZOO4926 | Animal Migration: Journeys by Air, Land, and Water (F2022) |

ZOO6927 Stable Isotope Ecology (S2020, S2022)

University of Utah

SPATIAL Isotopes in Spatial Systems Short Course, Faculty Instructor (2024 summer)

SPATIAL Isotopes in Spatial Systems Short Course, Laboratory Instructor (2013 – 2015 summer)

University of Florida (graduate student)

BSC2010L Integrated Principles of Biology I Lab, Graduate Instructor (F2006)

BSC2011L Integrated Principles of Biology II Lab, Online Graduate Assistant (F2011, Su2012);
Graduate instructor (S2007, Su2007)

GLY3083C Fundamentals of Marine Science, Course Coordinator (S2013)

PCB4043C General Ecology Lab, Graduate Instructor (S2012)

ZOO6927 Special topics Stable Isotope Ecology, Organizer (F2008)

Guest lecturer

BSC4930 Biological Oceanography (S2021, F2021)

ZOO6927 Zoogeochemistry (S2022)

Other

2006 spring Environmental Educator, Nature's Classroom, Andover, CT

2004 – 2005 Environmental Education with Girls' Club, Senegal

Training

2021 Certificate in Multi-Cultural Mentoring, University of Florida

2020 Disability Allyship Training, University of Florida Disability Resource Center

2020 Ally Skills Workshop, Gainesville Ally Skills Network

2020 Great Online Teaching Badge, University of Florida Center for Teaching Excellence

2007 fall Completed UF Teaching Assistant Development Program in Pedagogy

MENTORSHIP

Postdoctoral researchers

2023 – Bethan Linscott

2020 – 2022 Amy Wallace

Chair or co-chair, graduate supervisory committee

2024 – Aileen Lavelle (PhD)

2024 – Liz Hurtado (PhD, co-advised with Scott Robinson)

2023 – Ariadna Arnau (PhD, co-advised with Karen Bjorndal)

2023 – Tyler Bowling (PhD, co-advised with Amanda Subalusky)

2021 – Katherine Davis (PhD, co-advised with Christina Romagosa)

2021 – Christopher Nolte (PhD)

2019 – 2021 Carson Arends (MS)

2018 – 2023 Caitlin (CJ) Campbell (PhD)

Member, graduate supervisory committee, PhD

2024 – Ella Guedouar, University of South Florida Department of Integrative Biology

2024 – Jordan Bajema, UF Department of Fisheries and Aquatic Sciences

2023 – Kimberly Robertson, UF Department of Anthropology

2022 – Joshua Benjamin, UF Department of Biology
 2022 – Renato Saragoça Bruna, UF Department of Biology
 2021 Beverly Barnett, UF Department of Fisheries and Aquatic Sciences
 2020 – 2023 Michael Belitz, UF Department of Biology
 2020 – 2022 Brianna Michaud, University of South Florida College of Marine Sciences, St. Petersburg, FL
 2019 – 2022 Derek Chamberlin, UF Department of Fisheries and Aquatic Sciences
 2018 – 2022 Jessica Farrell, UF Department of Biology
 2018 – 2022 Justin Lewis (left program), UF Department of Fisheries and Aquatic Science
 2013 – 2016 Ana Talavera Sáenz, CICIMAR-IPN: Interdisciplinary Center of Marine Sciences, La Paz, México

Member, graduate supervisory committee, MS

2021 – 2023 Nikki Yetke, UF Department of Biology
 2017 – 2019 Caroline Quanbeck, UF Department of Geology
 2017 – 2022 James Waxe, Montana State University Department of Ecology, Bozeman, MT

Independent research supervisor

Spring 2018 Don Hardeman, Stable Isotope Ecology in Wildlife Research

Undergraduate students (*underrepresented minority in STEM)

F2023 – S2024 Holly Schmidt
 F2021 – S2023 Jenna Bennett*; Honor's Thesis
 Su2022 Natalie Mahn
 Su2018 – S2021 Saahir Mukherjee
 Su2018 – S2019 Diana Rodas*; University Scholars Program
 F2017 – S2018 Marisa Pico*
 S2017 Nicole Raudsepp*
 F2015 – S2017 Margaret Odom-Tomchin
 Su2015 – Su2016 Simone Jackson*
 Su2012 – Su2014 Temma Kaufman; Summa Cum Laude for Honor's Thesis and first author on peer-reviewed paper under my direction
 S2013 Leah Fischer
 Su2011 – F2011 Joslyn Armstrong*
 F2010 – S2011 Sophia Caccitore
 Su2010 Alice Chow
 F2009 – S2011 Nicole Frankel; first author on peer-reviewed paper under my direction

High school students

F2023 K'den Bledsoe, Moscow High School Extended Learning Internship, ID
 Su2017 Abby Reid, Pawling High School, NY

GRANTS/AWARDS TO SUPERVISED STUDENTS

2024 – 2028 UF Graduate Student Award Opportunity (\$116,667) to Aileen Lavelle
 2024 PADI Foundation Award (\$4,996) to Christopher Nolte
 2024 Matthew Smith Memorial Fund Award (\$1,500) to Katherine Davis
 2024 Frank Maturo Excellence Fund Award (\$2,500) to Christopher Nolte
 2024 College of Liberal Arts and Sciences Dissertation Fellowship (\$8,000 and tuition) to Tyler Bowling

2023 – 2024	UF Biodiversity Institute Fellows Program (\$12,500 and tuition) to Christopher Nolte
2023	College of Liberal Arts and Sciences Dissertation Fellowship (\$8,000 and tuition) to CJ Campbell
2023	Frank Maturo Excellence Fund Award (\$2,500) to Tyler Bowling
2023	Cynthia A. Melnick Memorial Fund Award (\$2,000) to Christopher Nolte
2023	Brian Riewald Memorial Fund Research Grant (\$300) to Christopher Nolte
2022 – 2023	UF Biodiversity Institute Fellows Program (\$21,000 and tuition) to CJ Campbell
2022 – 2023	Sigma Xi Grants in Aid of Research (\$850) to Christopher Nolte
2022	UF Biodiversity Institute Summer Fellows Program (\$4,000) to Christopher Nolte
2022	UF Biodiversity Institute Summer Fellows Program (\$4,000) to Katherine Davis
2021	Riewald Fund Research Grant (\$300) to CJ Campbell
2021	Michael L. May Interdisciplinary Grant (co-PI, \$1,000) to CJ Campbell and Aditi Jayarajan
2019	UF Biodiversity Institute Summer Fellows Program (\$4,000) to CJ Campbell
2019	Michael May Graduate Student Fellowship in Biology (\$4,000) to CJ Campbell
2018 – 2023	UF Graduate Student Funding Award Fellowship (\$120,000) to CJ Campbell
2018	UF University Scholars Program (\$1,750) to Diana Rodas

INVITED TALKS

2024	University of Central Florida, Department of Biology, Orlando, FL
2022	IsoEcol Plenary, Gaming, Austria
2022	International Sea Turtle Symposium student workshop panelist, Virtual
2019	Louisiana State University, College of the Coast & Environment, Baton Rouge, LA
2019	University of Idaho, Department of Fish and Wildlife Sciences, Moscow, ID
2019	University of Florida, Department of Fisheries & Aquatic Sciences, Gainesville, FL
2018	Montana State University, Department of Ecology, Bozeman, MT
2018	University of Florida, Whitney Marine Lab, St. Augustine, FL
2015	Trinity College Dublin, Department of Biology, Dublin, Ireland
2015	University of South Alabama, Department of Marine Sciences, Mobile, AL
2015	University of Oklahoma, Department of Biology, Norman, OK
2015	Florida International University, Department of Biological Sciences, Miami, FL
2015	University of South Florida, College of Marine Sciences, St. Petersburg, FL
2015	Doñana Biological Station, Department of Conservation Biology, Seville, Spain
2014	University of Denver, Department of Geography and the Environment, Denver, CO
2014	University of Alaska, Department of Biological Sciences, Fairbanks, AK
2013	University of Colorado, Department of Integrative Biology, Denver, CO
2012	University of Florida, Marine Biology Club, Gainesville, FL

CONFERENCE PRESENTATIONS ^{(U}undergraduate student, ^Ggraduate student, ^Ppostdoctoral researcher)

Oral presentations

2024

72. Davis K^G, Fireman A, Romagosa C, **Vander Zanden HB**. Determining the origin of migrating birds consumed by Burmese pythons while overwintering in Florida. *Invasion Science Research Symposium*. Gainesville, FL.
71. Nolte CR^G, Nel R, Hauser L, Perrault J, **Vander Zanden HB**. Reconstructing demographic history between two contrasting leatherback populations using genomics. *International Sea Turtle Symposium*. Pattaya, Thailand.

2023

70. Conkling TJ, **Vander Zanden HB**, Nelson DM, Duerr AE, Katzner TE. (2023) Vulnerability of Caprimulgiformes populations to fatalities at solar energy facilities. *Solar Power and Wildlife/Natural Resources Symposium*. Norfolk, VA.
69. **Vander Zanden HB**, Lübcker N, Williams Carroll KL, Frick MG, Pfaller JB, Arendt MD, Pajuelo M, Newsome SD. (2023) Isotopic evidence of capital breeding in loggerhead sea turtles. *The Wildlife Society*. Special session (invited speaker). Louisville, KY.
68. Torres-Sánchez M, Glen, CG, Beamer DA, Gray JA, Shablin SA, Wallace AAP, **Vander Zanden HB**, Longo AV. (2023) Ecological opportunities after species extirpations in salamander communities. *Congreso Nacional de la Asociación Española de Ecología Terrestre*. Almería, Spain.
68. Campbell CJ^G, Nelson DM, Nagel J, Clerc J, Guralnick R, **Vander Zanden HB**. Migration is a key factor driving distribution and interactions with energy development in at-risk bats. *North American Society for Bat Research (NASBR)*. Winnipeg, Canada.
67. Conkling TJ, Duerr AE, Miller TA, Millsap BA, Nelson DM, **Vander Zanden HB**, Zimmerman GS, Katzner TE. (2023). Vulnerability of golden eagle populations to fatalities at wind energy facilities. *Conference on Wind Energy and Wildlife Impacts*. Šibenik, Croatia
66. Strickland BA, Brown CL, Carvallo F, Frazier C, Groff CM, Kinard SK, Whiles MR, Ulseth AJ, **Vander Zanden HB**, Hogan JD, Patrick CJ. (2023) Precipitation regime controls secondary production dynamics in stream food webs. *American Fisheries Society Annual Meeting*. Grand Rapids, MI.
65. Wallace AAP, Bennett J, Avens L, Patterson III WF, **Vander Zanden HB**. (2023) Estimating scute growth rates using radiocarbon analysis. *International Sea Turtle Symposium*. Cartagena, Colombia.
64. Bennett J^U, Wallace A, Patterson III W, **Vander Zanden HB**. (2023) Validating radiocarbon aging in sea turtle hatchling eye lenses. *Southeast Regional Sea Turtle Meeting*. Orange Beach, AL.
63. Arends C^G, Lamont M, **Vander Zanden HB**. (2023) Variation in resource partitioning of three sea turtle species at a temperate foraging ground. *Apalachicola NERR Symposium*. Apalachicola, FL.

2022

62. Conkling TJ, **Vander Zanden HB**, Allison TD, Dietsch TV, Duerr AE, Fesnock AL, Hernandez RR, Loss SR, Nelson DM, Sanzenbacher PM, Yee JL, Katzner TE. (2022) Vulnerability of avian populations to renewable energy production. *The Wildlife Society*. Spokane, WA.
61. Campbell CJ^G, Belitz MW, Guralnick RP, Fletcher RJ, **Vander Zanden HB**. (2022) High-resolution seasonally-explicit distribution models reveal bat migration at the macroecological scale. *North American Society for Bat Research*, Austin, TX.
60. Jayarajan A, Campbell CJ^G, **Vander Zanden HB**. (2022) Project BatCast: forecasting emergences as a vehicle for conservation. *North American Society for Bat Research*, Austin, TX.
59. **Vander Zanden HB**. (2022) Spatial and temporal isotopic histories reveal patterns in animal migration and ecology *International Conference on the Applications of Stable Isotope Techniques to Ecological Studies*, Gaming, Austria (Invited plenary).
58. Groff CM, Kinard SK, Hogan D, Whiles MR, **Vander Zanden HB**, Ulseth AJ, Reese BK, Strickland BA, Carvallo F, Jenkins V, Solis AT, Groff DA, Frazier C, Brown CL, Patrick CJ. (2022) Food webs under a changing climate: Do precipitation regime and top-down control drive fish community composition and trophic structure in Texas coastal streams? *Joint Aquatic Sciences Meeting*, Grand Rapids, MI.
57. Kinard SK, **Vander Zanden HB**, Whiles M, Ulseth AJ, Groff C, Strickland B, Carvallo F, Solis A, Jenkins V, Corbiere DK, Frazier C, Brown C, Hogan JD, Patrick CJ. (2022) Aridity impedes marine nutrient subsidies in subtropical coastal streams. *Joint Aquatic Sciences Meeting*, Grand Rapids, MI.
56. Patrick CJ, Hogan JD, Whiles M, **Vander Zanden HB**, Ulseth AJ, Strickland B, Brown CL, Carvallo F, Frazier C, Groff C, Kinard SK. (2022) Rainy days in the Anthropocene: how changes to the global hydrologic cycle are impacting the ecology of surface waters worldwide. *Joint Aquatic Sciences Meeting*, Grand Rapids, MI.

55. Strickland B, Brown CL, Carvallo F, Frazier C, Groff C, Kinard SK, Whiles M, Ulseth AJ, **Vander Zanden HB**, Hogan JD, Patrick CJ. (2022) Relationships between precipitation regime and secondary production in coastal streams. *Joint Aquatic Sciences Meeting*, Grand Rapids, MI.
54. Ulseth AJ, Brown CL, Carvallo F, Frazier C, Groff C, Kinard SK, Strickland B, Hogan JD, Patrick CJ, **Vander Zanden HB**, Whiles M. Ecosystem metabolism and carbon spiraling in Texas coastal plain streams. (2022) *Joint Aquatic Sciences Meeting*, Grand Rapids, MI.
53. Conkling TJ, **Vander Zanden HB**, Allison TD, Diffendorfer JE, Dietsch TV, Duerr AE, Fesnock AL, Hernandez RR, Loss Sr, Nelson DM, Sanzenbacher PM, Yee JL, Katzner TE. (2022) Vulnerability of avian populations to wind energy production. *Conference on Wind energy and Wildlife impacts (CWW)*, Egmond ann Zee, Netherlands
52. Pfaller J, Pajuelo M, **Vander Zanden HB**, Andrews KM, Dodd MG, Godfrey MH, Griffin DB, Ondich BL, Pate SM, Williams KL, Shamblin BM, Nairn CJ, Bolten AB, Bjorndal KA. (2022) Identifying patterns in foraging-area origins in breeding aggregations of migratory species: loggerhead turtles in the northwest Atlantic. *International Sea Turtle Symposium*, Virtual
51. Fireman AL, Liang D, Stapleton SP, **Vander Zanden HB**, Woodland RJ. (2022) Identifying the isotopic niche of hawksbill sea turtles in Antigua, West Indies. *International Sea Turtle Symposium*, Virtual
50. **Vander Zanden HB**, Wallace AP, Chagaris D, Patterson W. (2022) Tissue clocks: new methods for aging sea turtles. *Florida Restore Act Centers for Excellence All Hands Meeting*, Virtual
- 2021
49. Katzner TE, Ortiz PA, Hayes C, Conkling TJ, **Vander Zanden HB**. (2021) Frameworks to facilitate assessment of cumulative and population-level consequences to wildlife from fatalities at solar energy facilities. *Solar Power and Wildlife/Natural Resources Symposium*, Virtual
48. Conkling TJ, **Vander Zanden HB**, Allison TD, Diffendorfer JE, Dietsch TV, Duerr AE, Fesnock AL, Hernandez RR, Loss SR, Nelson DM, Sanzenbacher PM, Yee JL, Katzner TE. (2021) Vulnerability of avian populations to solar energy production. *Solar Power and Wildlife/Natural Resources Symposium*, Virtual
47. **Vander Zanden HB**, Nelson DM, Conkling TJ, Allison TD, Diffendorfer JE, Culver RCE, Dietsch TV, Fesnock AL, Loss SR, Ortiz PA, Paulman R, Rogers KH, Sanzenbacher PM, Katzner TE. (2021) The geographic extent of birds affected by solar energy in California. *Solar Power and Wildlife/Natural Resources Symposium*, Virtual
46. Campbell CJ^G and **Vander Zanden HB**. (2021) Assessing the capacity for migratory bats to serve as long-distance vectors of white-nose syndrome pathogen *Pseudogymnoascus destructans*. *Ecological Society of America*, Virtual
45. Kinard S, **Vander Zanden HB**, Whiles MR, Ulseth AJ, Reese BK, Groff CM, Strickland BA, Carvaollo F, Jenkins V, Solis AT, Corbiere DA, Frazier C, Brown CL, Hogan JD, Patrick CJ. (2021) Food-web complexity and basal resource shifts along a precipitation gradient. *Society for Freshwater Science Annual Meeting*, Virtual
44. Groff CM, Patrick CJ, Kinard SK, Whiles MR, **Vander Zanden HB**, Ulseth AJ, Reese BK, Strickland BA, Carvallo F, Jenkins V, Solis AT, Corbiere DA, Frazier C, Brown CL, Hogan JD. (2021) Food webs under a changing climate: Do precipitation regime and top-down control drive community composition and trophic structure in Texas coastal streams? *Society for Freshwater Science Annual Meeting*, Virtual
43. Patrick CJ, Hogan JD, Whiles MR, **Vander Zanden HB**, Ulseth AJ, Strickland BA, Brown CL, Carvallo F, Frazier C, Groff CM, Kinard SK, Solis AT. (2021) Understanding the impacts of changes in rainfall on stream ecosystems: Lessons learned from a natural rainfall gradient in coastal Texas. *Society for Freshwater Science Annual Meeting*, Virtual
42. Campbell CJ^G, Fitzpatrick MC, **Vander Zanden HB**, Nelson DM. The R package ‘isocat’, a toolset for comparing and summarizing origins of animals inferred from stable isotope data. (2021) *Applications of Stable Isotope Techniques to Ecological Studies (IsoEcol)*, Virtual

41. Magozzi S, **Vander Zanden HB**, Wunder MB, Trueman CN, Bowen GJ. (2021) Combining models of the environment, behavior, and physiology to predict tissue H and O isotope variance among individual terrestrial animals. *Applications of Stable Isotope Techniques to Ecological Studies (IsoEcol)*, Virtual

2020

40. Campbell CJG, **Vander Zanden HB**. A framework for predicting migratory behavior and wind-development impacts: Uniting morphological and life-history characteristics with distribution-based migration models. (2020) *Wind Wildlife Research Meeting*, Virtual
39. Conkling TJ, **Vander Zanden HB**, Diffendorfer JE, Duerr AE, Loss SR, Nelson DM, Yee JL, Katzner TE. Demographic impact of avian fatalities at wind energy facilities. (2020) *Wind Wildlife Research Meeting*, Virtual
38. Katzner TE, Braham M, Conkling TJ, Diffendorfer JE, Duerr AE, Loss SR, Nelson DM, **Vander Zanden HB**, Yee J. Assessing population-level consequences of wind energy on birds (2020). *Wind Wildlife Research Meeting*, Virtual
37. Magozzi S, Contina A, Wunder M, **Vander Zanden HB**, Bowen G. (2020) A global compilation of known-origin keratin hydrogen and oxygen isotope data for wildlife and forensic research. *European Geosciences Union Online*, Virtual

2019

36. Katzner TE, Braham M, Conkling TJ, Diffendorfer JE, Duerr AE, Loss SR, Nelson DM, **Vander Zanden HB**, Yee JL. (2019) Assessing population-level consequences of anthropogenic stressors on raptors. *Raptor Research Foundation Annual Conference*, Ft. Collins, CO
35. Fesnock AL, Allison TD, Braham M, Duerr AE, Loss S, Nelson DM, **Vander Zanden HB**, Conkling TJ, Diffendorfer JE, Yee JL, Katzner TE. (2019) Bird conservation and solar energy conflict resolution in the California desert. *American Fisheries Society and The Wildlife Society Joint Annual Conference*, Reno, NV.
34. Magozzi S, Vander Zanden HB, Wunder MB, Trueman CN, Bowen GJ. Combining models of the environment behavior, and physiology to predict tissue H and O isotope variance among individuals. (2019) *7th Conference of the Forensic Isotope Ratio Mass Spectrometry Network*, San Michele all'Adiage, Italy.
33. Conkling TJ, **Vander Zanden HB**, Allison TD, Diffendorfer JE, Duerr AE, Loss SR, Nelson DM, Yee JL, Katzner TE. (2019) Demographic impact of avian fatalities at wind energy facilities. *Conference on Wind Energy and Wildlife Impacts*, Stirling, UK.
32. Garcia-Cruz M, Campbell CL, Bjorndal KA, Cardona L, Lagueux CJ, Rodríguez-Clark KM, Lampo M, Señaris C, **Vander Zanden HB**, Fuentes MMPB, Carreras C, Vernet P, Bolten AB. (2019) The global male sea turtle initiative: adding males to the conservation equation. *International Symposium on Sea Turtle Biology and Conservation*, Charleston, SC

2018

31. **Vander Zanden HB**, Nelson DM, Conkling TJ, Katzner TE. (2018) A wildlife forensics approach to characterize the geographic footprint of California wind energy effects on avian populations. *Wind Wildlife Research Meeting*, St. Paul, MN
30. Conkling TJ, **Vander Zanden HB**, Allison TD, Diffendorfer JE, Duerr AE, Loss SR, Nelson DM, Yee J, Katzner TE. (2018) Demography of birds killed at wind energy facilities. *Wind Wildlife Research Meeting*, St. Paul, MN
29. García-Cruz MA, Campbell C, Bjorndal KA, Cardona L, Lagueux C, Rodríguez-Clark KM, Lampo M, Señaris C, **Vander Zanden HB**, Fuentes MMPB, Carreras C, Vernet P, and Bolten B. (2018). The global male sea turtle initiative. *Mediterranean Sea Turtle Meeting*, Porèc, Croatia

28. **Vander Zanden HB**, Nelson DM, Conkling TJ, Katzner TE. (2018) The geographic extent of solar energy effects on California avian populations. *International Conference on Applications of Stable Isotope Techniques to Ecological Studies*, Viña del Mar, Chile
27. Magozzi S, **Vander Zanden HB**, Wunder MB, Trueman CN, Bowen GJ. (2018). How do behavior, the environment, and physiology interact to produce variance in isotopic compositions? *International Conference on Applications of Stable Isotope Techniques to Ecological Studies*, Viña del Mar, Chile
26. Reid A, **Vander Zanden HB**, Katzner TE, Nelson DM. Implications for using singed feathers in determining geographic origin with wildlife forensic approaches. *Association of Field Ornithologists & Wilson Ornithological Society Joint Meeting*, Chattanooga, TN
25. **Vander Zanden HB**, Nelson DM, Conkling TJ, Katzner TE. (2018) The geographic footprint of California solar energy effects on bird populations. *American Ornithology Meeting*. Tucson, AZ.
24. Conkling TJ, **Vander Zanden HB**, Diffendorfer JE, Duerr AE, Loss SR, Nelson DM, Katzner TE. (2018) Demography of birds killed at solar energy facilities. *American Ornithology Meeting*, Tucson, AZ
23. Pajuelo M, Arendt MD, Ceriani S, **Vander Zanden HB**, Bolten AB, Bjorndal KA. (2018) Foraging segregation between two sympatric species of generalist sea turtles revealed with stable isotope analysis. *International Symposium on Sea Turtle Biology and Conservation*, Kobe, Japan

2017

22. Ma C, Bowen GJ, Vander Zanden HB, Wunder MB. (2017) Uncertainty estimation using bootstrapped krigging predictions. *American Geophysical Union*. San Francisco, CA
21. Dalleau M, Lalire M, Tardy C, Al Harthi S, Wilson A, Pereira M, Fernandes R, Nel R, Rakotonirina B, Jaquemet S, Ciccione S, Gaspar P, **Vander Zanden HB**, Bjorndal KA, Bolten AB, Bourjea J. (2017) A regional and multidisciplinary approach to study and protect an endangered species: the loggerhead sea turtle (*Caretta caretta*). *Western Indian Ocean Marine Science Association Symposium*. Dar es Salaam, Tanzania

2016

20. Bowen GJ, Putman A, Oerter EJ, **Vander Zanden HB**, Woo J, Wunder MB, Zhao L. Exploring physical and biological connections using IsoMAP. (2016) *Geological Society of America*, Denver, CO
19. **Vander Zanden HB**, Wunder MB, Bowen GJ. (2016) Effects of ecophysiology on predictions of organismal hydrogen and oxygen isotope composition. *Ecological Society of America*, Fort Lauderdale, FL
18. **Vander Zanden HB**, Wunder MB, Bowen GJ. (2016) Accounting for ecophysiology in predicting animal $\delta^2\text{H}$ and $\delta^{18}\text{O}$ values. *International Conference on Applications of Stable Isotope Techniques to Ecological Studies*, Tokyo, Japan.
17. **Vander Zanden HB**, Bolten AB, Tucker AD, Hart KM, Lamont MM, Fujisaki I, Reich KJ, Addison DS, Mansfield KL, Phillips K, Pajuelo M, Bjorndal KA. (2016) Determining pre-disaster baselines after the disaster: impact of the *Deepwater Horizon* oil spill on sea turtle foraging. *Gulf of Mexico Oil Spill and Ecosystem Science Conference*, Tampa, FL

2015

16. Bowen GJ, Putman A, **Vander Zanden HB**, Good SP, Liu Z, Terzer S, Zhao L, West JB, Revenaugh J, Wilkinson BH. (2015) Leveraging GNIP and investigator research to map isotopic climate: two decades of precipitation isoscapes. *IAEA Isotope Hydrology Symposium*. Vienna, Austria
15. **Vander Zanden HB**, Tucker AD, Hart KM, Lamont MM, Fujisaki I, Addison DS, Mansfield KL, Phillips K, Wunder MB, Bowen GJ, Pajuelo M, Bolten AB, Bjorndal KA. (2015) Stable isotope

values in loggerhead scute provide baseline records prior to the oil spill in the Northern Gulf of Mexico. *Florida Marine Turtle Permit Holder Meeting*, Melbourne, FL

2014

14. **Vander Zanden HB**, Wunder MB, Hobson KA, Van Wilgenberg SL, Wassenaar LI, Welker JM, Bowen GJ. (2014) Do year-specific precipitation isoscapes improve predictions of migratory origin? *American Ornithologists' Union, Cooper Ornithological Society, and the Society of Canadian Ornithologists*, Estes Park, CO
13. **Vander Zanden HB**, Wunder MB, Hobson KA, Van Wilgenberg SL, Wassenaar LI, Welker JM, Bowen GJ. (2014) Which water matters: how spatio-temporal characteristics of precipitation isoscapes affect geographic assignments to origin for migratory species. *International Conference on Applications of Stable Isotope Techniques to Ecological Studies*, Perth, Australia
12. **Vander Zanden HB**, Tucker AD, Hart KM, Lamont MM, Fujisaki I, Addison DS, Mansfield KL, Phillips K, Wunder MB, Bowen GJ, Pajuelo M, Bolten AB, Bjorndal KA. (2014) Determining foraging area origin with stable isotope analysis and satellite tracking for loggerheads nesting in the Gulf of Mexico. *International Symposium on Sea Turtle Biology and Conservation*, New Orleans, LA

2013

11. **Vander Zanden HB**, Bjorndal KA, Bolten AB. (2013) Green turtles: creatures of habit. *International Symposium on Sea Turtle Biology and Conservation*, Baltimore, MD

2012

10. **Vander Zanden HB**, Arthur KE, Bolten AB, Popp BN, Lagueux CJ, Harrison E, Campbell CL, Bjorndal KA. (2012) Caribbean green turtle foraging ecology. *International Conference on Applications of Stable Isotope Techniques to Ecological Studies*, Brest, France
9. Bjorndal KA, Pajuelo M, **Vander Zanden HB**, Bolten AB. (2012) Nitrogen and carbon isotopes: where you eat is as important as what you eat. *Comparative Nutrition Society*, Pacific Grove, CA
8. **Vander Zanden HB**, Arthur KE, Bolten AB, Popp BN, Lagueux CJ, Harrison E, Campbell CL, Bjorndal KA. (2012) You are what you eat and where you eat it: interpreting the isotopic niche of the Caribbean green turtle. *International Symposium on Sea Turtle Biology and Conservation*. Huatulco, Mexico

2011

7. **Vander Zanden HB**, Bjorndal KA, Reich KJ, Bolten AB. (2011) Loggerhead specialization revealed by stable isotope analysis. *International Symposium on Sea Turtle Biology and Conservation*, San Diego, CA
6. **Vander Zanden HB**, Bjorndal KA, Mustin W, Bolten A. (2011) Are they all just the same? A study of green turtle inherent isotopic variation. *University of Florida Marine Biology Symposium*, St. Augustine, FL

2010 and prior

5. Bjorndal KA, Pajuelo M, **Vander Zanden HB**, Reich KJ, Bolten AB. (2010) Advances in the development of models of nutritional ecology and life history of sea turtles. *Comparative Nutrition Society*, Tuscon, AZ
4. **Vander Zanden HB**, Bjorndal KA, Reich KJ, Bolten AB. (2010) Loggerhead sea turtles: individual specialists in a generalist population. *International Conference on Applications of Stable Isotope Techniques to Ecological Studies*, Fairbanks, AK
3. **Vander Zanden HB**, Bjorndal KA, Reich KJ, Bolten AB. (2010) Individual specialists in a generalist population: results from a long term stable isotope series. *Benthic Ecology Meeting*, Wilmington, NC
2. **Vander Zanden HB**, Bjorndal KA, Reich KJ, Bolten AB. (2010) Individual specialists in a generalist population. *University of Florida Marine Biology Symposium*, St. Augustine, FL

1. **Vander Zanden HB.** (2003) Implications of humidity, oxygen availability, activity and method of respiration in metabolic rates of *Helix aspera*. Senior Thesis Presentation, Pomona College, Pomona, CA

Poster presentations (^Uundergraduate student, ^Ggraduate student, ^Ppostdoctoral coauthor)

2023

19. Wallace AAP, Patterson III WF, **Vander Zanden HB.** (2023) Scute growth rate estimates: A radiocarbon analysis. *Southeast Regional Sea Turtle Meeting*. Orange Beach, AL.

2022

18. Bennett J^U, Wallace A, Patterson III WF, **Vander Zanden HB.** (2022) Validating radiocarbon aging in sea turtle hatchling eye lenses. *UF Biology URAP Symposium*, Gainesville, FL

2020

17. ^GCampbell CJ, **Vander Zanden HB.** (2020) Cave and mine use by tree-roosting bats. *25th Annual Meeting of the Southeastern Bat Diversity Network*, Athens, GA

2019

16. Gazda SK, ^URodas DP, Vander Zanden HB. (2019) Stable isotope analysis as a tool to investigate foraging and group dynamics in bottlenose dolphins. *World Marine Mammal Conference*, Barcelona, Spain

15. ^URodas DP, Gazda SK, **Vander Zanden HB** (2019) Dolphin foraging decoded with stable isotope analysis. *UF Undergraduate Research Symposium*, Gainesville, FL

2017

14. Ma C, Bowen GJ, **Vander Zanden HB**, Wunder MB. (2017) Uncertainty estimation using bootstrapped kriging predictions for precipitation isoscapes. *American Geophysical Union*, New Orleans, LA

2016

13. Talavera AL, Sánchez A, Ortiz C, **Vander Zanden HB**, Negrete A. (2016) Diet tissue discrimination factors ($\Delta^{13}\text{C}$ and $\Delta^{15}\text{N}$) in captive adult male green turtles (*Chelonia mydas*). *International Symposium on Sea Turtle Biology and Conservation*, Lima, Peru.

2015

12. Talavera AL, Sánchez A, Ortiz C, **Vander Zanden HB**, Herrera R. (2015) Individual variability in resource use within a juvenile green turtle population. *International Symposium on Sea Turtle Biology and Conservation*, Dalaman, Turkey.

2014

11. **Vander Zanden HB**, Pfaller JB, Reich KJ, Pajuelo M, Bolten AB, Williams KL, Frick MG, Shamblin BM, Nairn CJ, Bjorndal KA. (2014) Foraging site matters: differential reproductive output and trends in abundance of loggerheads in the Northwest Atlantic. *International Symposium on Sea Turtle Biology and Conservation*, New Orleans, LA
10. Talavera AL, Sánchez A, Ortiz C, **Vander Zanden HB.** (2014) Feeding patterns of juvenile green turtles (*Chelonia mydas*) from Akumal, Quintana Roo, Mexico. *International Symposium on Sea Turtle Biology and Conservation*, New Orleans, LA
9. ^UKaufman TJ, Pajuelo M, Bjorndal KA, Bolten AB, Pfaller JB, Williams KL, **Vander Zanden HB.** (2014) Mother-egg stable isotope discrimination factors and effects of lipid extraction and ethanol preservation in loggerhead eggs: initial results. *International Symposium on Sea Turtle Biology and Conservation*, New Orleans, LA
8. ^UPrice JT, Pfaller JB, **Vander Zanden HB**, Williams KL, Bolten AB, Bjorndal KA. (2014) Exploring head size variation in adult female loggerhead turtles. *International Symposium on Sea Turtle Biology and Conservation*, New Orleans, LA

2013

7. **Vander Zanden HB**, Hobson KA, Wassenaar LI, Wunder MB, Welker JM, Bowen GJ. (2013) Incorporating climate variability into precipitation isoscapes for interpreting animal migration. *American Geophysical Union*, San Francisco, CA

2012

6. **Vander Zanden HB**, Arthur KE, Bolten AB, Popp BN, Lagueux CJ, Harrison E, Campbell CL, Bjorndal KA. (2012) Interpreting Caribbean green turtle foraging ecology using bulk carbon and nitrogen stable isotope analysis and nitrogen isotopic composition of amino acids. *Ocean Sciences Meeting*, Salt Lake City, UT

2011

5. **Vander Zanden HB**, Bjorndal KA, Bolten A. (2011) Nutrient transport by green turtles. *International Symposium on Sea Turtle Biology and Conservation*, San Diego, CA

2009 and prior

4. **Vander Zanden HB**, Bjorndal KA, Bolten, AB. (2009) Green turtles: nutrient transporters between marine and terrestrial ecosystems. *University of Florida NSF Research Day*, Gainesville, FL
3. **Vander Zanden HB**, Bjorndal KA, Bolten, AB. (2009) Green turtle nesting and the flow of nutrients in the beach ecosystem. *International Symposium on Sea Turtle Biology and Conservation*, Brisbane, Australia
2. **Vander Zanden HB**, Bjorndal KA, Bolten, AB. (2009) Green turtles as nutrient transporters. 1st *University of Florida Marine Biology Symposium*, St. Augustine, FL
1. **Vander Zanden HB**, Bjorndal KA, Bolten, AB. (2008) Using stable isotopes to investigate sea turtle ecology. *International Symposium on Sea Turtle Biology and Conservation*, Loreto, Mexico

PROFESSIONAL REVIEWSManuscript reviews

Biological Invasions (2023)
Biological Reviews (2019)
Condor (2014)
Conservation Biology (2015)
Conservation Letters (2017)
Ecology (2015)
Ecological Applications (2016)
Ecology and Evolution (2016, 2014)
Ecosphere (2020)
Endangered Species Research (2014, 2013)
Frontiers in Marine Science (2020)
Global Change Biology (2023)
Herpetological Conservation and Biology (2012)
Ibis (2015)
Isotopes in Environmental and Health Studies (2013)
Journal of Coastal Research (2014)
Journal of Animal Ecology (2018)
Journal of Ecology (2012)
Marine Biology (2023, 2021, 2016, 2014, 2013)
Marine Ecology (2015)
Marine Ecology Progress Series (2018, 2017, 2016, 2015, 2014, 2013)
Methods in Ecology and Evolution (2017, 2015)
Oecologia (2018 x2, 2017)

Pacific Science (2013)
PLOS ONE (2020)
Rapid Communications in Mass Spectrometry (2015)
Waterbirds (2015)

Ad hoc grant reviewer

Arctic-Yukon-Kuskokwim Sustainable Salmon Initiative (2022)
 National Oceanic and Atmospheric Administration
 National Marine Fisheries Service (2019)
 National Science Foundation
 Biological Oceanography (2015 x2, 2014, 2011)
 Ecosystem Science (2016)
 Natural Environment Research Council of the UK (2014)
 Ontario Genomics
 Large-Scale Applied Research Project Competition (2020)

PhD thesis examiner

Griffith University (2018)

Permit reviewer

Florida Fish and Wildlife Conservation Commission (2024, 2021, 2016)

SCIENTIFIC AND ADVISORY SERVICE

2022 – *Regional Wildlife Science Collaborative for Offshore Wind*, Sea Turtle Subcommittee
 2016 – 2017 *Ocean Conservancy*, Trustee Implementation Group for Deepwater Horizon Integrated
 Restoration Planning
 2015 *Texas Sea Grant and Disney Worldwide Conservation Fund*, Gulf of Mexico Sea Turtle
 Workshop
 2012 *National Fish and Wildlife Foundation*, Gulf of Mexico Critical Sea Turtle Meeting

ACADEMIC SERVICE

University level

2024 – Research and Scholarship Council, UF Faculty Senate Council
 2021 – 2024 Land Use and Facilities Planning Committee, UF Joint Committee
 2020 – Senator, UF Faculty Senate

Department level

2022 – 2023 Faculty Search Committee for Ecology of the Microbiome, UF Department of Biology
 2022 – Bylaws Committee, UF Department of Biology
 2021 – Recruitment Committee, UF Department of Biology
 2020 – Graduate Committee, UF Department of Biology
 2018 – 2019 Faculty Search Committee for Marine Biology, UF Department of Biology
 2018 Fall Welcome Event Coordinator, UF Department of Biology
 2017 – 2020 Advisory Council, UF Department of Biology
 2017 – 2018 Faculty Search Committee for Ecology and Evolution of Infectious Disease, UF
 Department of Biology

SYNERGISTIC ACTIVITIES

Other activities

- 2023 – 2024 Littlewood Elementary School Title 1 STEAM Night, Science outreach volunteer
- 2022 – McCarty Woods Restoration, Volunteer
- 2022 – 2024 Littlewood Elementary School CLUBS, Science educator volunteer
- 2022 – Archie Carr Center for Sea Turtle Research & Florida Museum of Natural History, World Sea Turtle Day outreach coordinator
- 2022 – 2023 University Multicultural Mentor Program, Faculty mentor
- 2021 – 2023 Gastro Student Association, Faculty advisor
- 2021 NAS Gulf Research Program Emerging Sciencetalks Webinar Series Presenter, outreach to K-12 audience, Sea turtle journeys and survival stories (<https://www.nationalacademies.org/event/04-21-2021/grp-emerging-sciencetalks-april-2021>)
- 2021 UF Baby Gator Child Development and Research Center, Advisory Board member
- 2020 Ally Skills Network workshop
- 2018 – 2019 University Scholars Program, Faculty mentor
- 2018 – 2019 University Multicultural Mentor Program, Faculty mentor
- 2018 IsoEcol conference, Workshop organizer for building and using isoscapes to estimate geographic origins of tissues
- 2018 UF Innovation Academy Catalyst, Fellow
- 2017 – Archie Carr Center for Sea Turtle Research Development Board, Member
- 2017 UF Science for Life Research Course, Guest speaker
- 2014 – 2022 Moscow High School & Conservation Opportunities, Inc., International service-learning trip educator (Guadeloupe 2014; Mexico 2015, 2018, 2022)
- 2014 Citation style contributor for Zotero
- 2012 Seahorse Key Marine Laboratory, Trainer of elementary school teachers for marine biology program
- 2012 Florida Museum of Natural History, World Sea Turtle Day volunteer
- 2010 – 2012 Women in Science and Engineering (WiSE), Steering Committee member
- 2010 – 2011 Biology Graduate Student Association, Vice president
- 2010 – 2011 Archie Carr Center for Sea Turtle Research, Monthly forum coordinator
- 2009 – 2010 Biology Graduate Student Association, Treasurer
- 2008 – 2012 Science Fair Judge, Alachua County Schools
- 2008 – 2010 I-Cubed Graduate Student Advisory Council Member
- 2008 – 2009 Zoology Graduate Student Association Secretary
- 2007 – 2009 Zoology Department Representative to Graduate Student Council
- 2007 – 2008 University of Florida Graduate Student Council Secretary
- 2006 – 2007 WiSE (Women in Science and Engineering) Mentor

Conference committees

- 2023 Southeast Regional Sea Turtle Meeting. Orange Beach, AL. Scientific Programming Committee
- 2016 36th Annual Symposium on Sea Turtle Biology and Conservation. Lima, Peru. In-Water Biology Session Chair
- 2014 34th Annual Symposium on Sea Turtle Biology and Conservation. New Orleans, LA. Anatomy, Physiology, and Health Session Chair
- 2013 33rd Annual Symposium on Sea Turtle Biology and Conservation. Baltimore, MD. Coordinator of Volunteers

PROFESSIONAL MEMBERSHIPS

The Wildlife Society
The Society for Conservation Biology
Ecological Society of America
International Sea Turtle Society
Sigma Xi

LANGUAGE PROFICIENCY

Advanced Spanish, Basic French and Wolof (Senegal)