

HANNAH VANDER ZANDEN

University of Florida, Department of Biology
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352-294-0438 (office), hvz@ufl.edu
www.people.clas.ufl.edu/hvz
Google Scholar, ORCID 0000-0003-3366-5116

EDUCATION

- 2006-2012 *Doctor of Philosophy* in Zoology, **University of Florida**, Gainesville, Florida
Department of Biology (formerly Zoology)
1999-2003 *Bachelor of Arts* in Biology, **Pomona College**, Claremont, California
Honors in Senior Thesis, Minor in Spanish

ACADEMIC APPOINTMENTS

- 2017 – present *Assistant Professor*, Department of Biology, **University of Florida**

PROFESSIONAL EXPERIENCE

- 2016 – 2017 *Ecologist*, Forest and Rangeland Ecosystem Science Center, **U.S. Geological Survey**
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
2012 – 2013 *Stolarz Conservation Fellow (Postdoctoral Associate)*, Department of Biology, **University of
Florida**
2003 – 2005 *Natural Resource Management Extension Agent*, **US Peace Corps in Senegal**

GRANTS/FELLOWSHIPS

- 2018 – 2020 Spatial ecology and movement of marine megafauna in the Gulf of Mexico, **The
National Academies of Sciences, Engineering, and Medicine Gulf Research
Program Early-Career Research Fellowship** (\$76,000)
2018 Renewable energy impacts to wildlife, **Piedmont-South Atlantic Coast Cooperative
Ecosystem Studies Unit** (\$27,450)
2016 Collaborative Research: Advances in Biological Informatics Development: ORIGIN:
Origin Inference from Geospatial Isotope Networks, co-PI with Gabe Bowen, **NSF
Advances in Biological Informatics** (UofU budget \$719,632)
2012 Research Grant, **Sea Turtle Grant Program** with Karen Bjorndal (\$25,386)
2011 Lockhart Dissertation Fellowship, **UF Association for Academic Women** (\$1,000)
2010 Research Grant, **PADI Foundation** (\$6,100)
2010 Grant in Aid of Research, **Sigma Xi** (\$400)
2010 John Paul Olowo Memorial Research Grant, **UF Dept of Biology** (\$300)
2009 Research Award, **UF Graduate Student Council** (\$250)
2007 Graduate Research Fellowship, **NSF** (\$122,500)
2006 Graduate Research Fellowship Program Honorable Mention, **NSF**

- 2005 Small Project Assistance Grant for local project in Senegal, **USAID** (\$2,200)
 2000-2002 Research Experience for Undergraduate (REU) summer grants, **NSF** (~\$3000/summer)

PUBLICATIONS (*undergraduate student coauthor, #co-first author)

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*. 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. Are we working towards global research priorities for management and conservation of sea turtles? (2016) *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. *Kaufman TJ, Pajuelo M, Bjorndal KA, Bolten AB, Pfaller JB, Williams KA, **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. *Frankel 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**, Gilgooly, 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)

BOOK CHAPTERS AND OTHER CONTRIBUTIONS

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 RB, 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*.
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 HHMI 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

- | | |
|-----------|---|
| 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)

- | | |
|-----------------|---|
| 2019 spring | Integrated Principles of Biology II (BSC2011) |
| 2017, 2018 fall | General Ecology PCB4043C |

University of Utah

- | | |
|----------------|--|
| 2013-15 summer | Laboratory Instructor, Isotopes in Spatial Ecology and Biogeochemistry |
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University of Florida (graduate student)

- | | |
|------------------------|--|
| 2013 spring | Course Coordinator, Introduction to Marine Sciences |
| 2011 fall, 2012 summer | Online Graduate Assistant, Integrated Principles of Biology II |
| 2012 spring | Graduate Instructor, General Ecology Lab |
| 2008 fall | Organized weekly Stable Isotope Ecology seminar with T. Palmer |

2007 fall	Completed UF Teaching Assistant Development Program in Pedagogy
2007 spring, summer	Graduate Instructor, Integrated Principles of Biology II Lab
2006 fall	Graduate Instructor, Integrated Principles of Biology I Lab

INVITED TALKS

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	Whitney Marine Lab , University of Florida, 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

Oral presentations

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, Bjørndal 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
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. *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 (* undergraduate authors, **graduate authors)

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. *Kaufman 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. *Price 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

MENTORSHIP (*underrepresented minority in STEM)

Chair, graduate supervisory committee

Caitlin Campbell (2018 – present)

Member, graduate supervisory committee

Jessica Farrell (2018 – present) UF Department of Biology

Justin Lewis (2018 – present) UF Department of Fisheries and Aquatic Science

Caroline Quanbeck (2017 – present) UF Department of Geology

James Waxe (2017 – present) Department of Ecology, Montana State University, Bozeman, MT

Ana Talavera Sáenz* (2013 – 2016) CICIMAR-IPN: Interdisciplinary Center of Marine Sciences, La Paz, México

Independent research supervisor

Don Hardeman (spring 2018) Stable Isotope Ecology in Wildlife Research

Undergraduate students

Saahir Mukherjee (summer 2018 – present)

Diana Rodas* (summer 2017 – present, University Scholars Program)

Marisa Pico* (fall 2017 – spring 2018)

Nicole Raudsepp* (summer 2017)

Margaret Odom-Tomchin (fall 2015 – spring 2017)

Simone Jackson* (summer 2015 – summer 2016)

Temma Kaufman (summer 2012 – summer 2014); Summa Cum Laude for Honor's Thesis and first author on peer-reviewed paper under my direction

Leah Fischer (spring 2013)

Joslyn Armstrong* (summer and fall 2011)

Sophia Caccitore (fall 2010 – spring 2011)

Alice Chow (summer 2010)

Nicole Frankel (fall 2009 – spring 2011); first author on peer-reviewed paper under my direction

PROFESSIONAL SERVICE

Manuscript reviews

Condor (2014)

Conservation Biology (2015)

Conservation Letters (2017)

Ecology (2015)

Ecological Applications (2016)

Ecology and Evolution (2016, 2014)

Endangered Species Research (2014, 2013)

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 (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)

Rapid Communications in Mass Spectrometry (2015)

Waterbirds (2015)

Ad hoc grant reviewer

National Science Foundation

Biological Oceanography (2015 x2, 2014, 2011)

Ecosystem Science (2016)

Natural Environment Research Council of the UK (2014)

PhD thesis examiner

Griffith University (2018)

Permit reviewer

Florida Fish and Wildlife Conservation Commission (2016)

SCIENTIFIC AND ADVISORY SERVICE

- 2016-2017 *Ocean Conservancy*, Trustee Implementation Group for Deepwater Horizon Integrated Restoration Planning, Gainesville, FL
- 2015 *Texas Sea Grant and Disney Worldwide Conservation Fund*, Gulf of Mexico Sea Turtle Workshop. Corpus Christi, TX
- 2012 *National Fish and Wildlife Foundation*, Gulf of Mexico Critical Sea Turtle Meeting, St. Petersburg, FL

SYNERGISTIC ACTIVITIESConference committees

- 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 33th Annual Symposium on Sea Turtle Biology and Conservation. Baltimore, MD. **Coordinator of Volunteers**

Other activities

- 2018 – 2019 University Multicultural Mentor Program, Faculty mentor
- 2018 Workshop organizer at IsoEcol: Software and tools associated with a cyberinfrastructure for building and using isoscapes to estimate geographic origins of tissues
- 2018 UF Innovation Academy Catalyst Fellow
- 2017 – present Archie Carr Center for Sea Turtle Research Development Board
- 2017 – present UF Department of Biology Advisory Council
- 2017 – 2018 UF Department of Biology Faculty Search Committee Member
- 2017 UF Science for Life Research Course guest speaker
- 2014 – 2018 International service-learning trip with high school students from Idaho to teach sea turtle biology and conservation (Guadeloupe 2014, Mexico 2015 and 2018)
- 2014 Citation style contributor for Zotero
- 2012 Training of elementary school teachers for marine biology program at Seahorse Key Marine Laboratory
- 2012 Volunteer for World Sea Turtle Day, Florida Museum of Natural History
- 2010-2012 Women in Science and Engineering (WiSE) Steering Committee
- 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

PROFESSIONAL MEMBERSHIPS

Ecological Society of America
International Sea Turtle Society
Sigma Xi

LANGUAGE PROFICIENCY

Advanced Spanish, Basic French, and Wolof (Senegal)