

Jason B. West Curriculum Vita

1. PERSONAL INFORMATION

Jason B. West
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2. EDUCATION

Ph.D. 2002, University of Georgia, Athens, Georgia
B.S. 1996, Utah State University, Logan, Utah

3. PROFESSIONAL EXPERIENCE

Associate Department Head for Research and Strategic Initiatives, 2025 – present
Department of Ecology and Conservation Biology, Texas A&M University
Professor, 2023 – present
Department of Ecology and Conservation Biology, Texas A&M University
Stable Isotopes for Biosphere Science Laboratory Director (2010 – present)
Interdisciplinary Faculty Membership:
Ecology and Evolutionary Biology (2008 – present)
Molecular & Environmental Plant Sciences (2011 – present)
Forensic and Investigative Sciences Program (2011 – present)
Program Director, 2022 – 2025
Division of Environmental Biology, National Science Foundation
Associate Department Head for Academic Programs, 2020 – 2022
Department of Ecology and Conservation Biology, Texas A&M University
Visiting Scientist, 2015-2016
Institut National de la Recherche Agronomique (INRA), Bordeaux-Aquitaine
Associate Professor, 2014 – 2023
Department of Ecology and Conservation Biology (2020 – 2023), Texas A&M University
Department of Ecosystem Science and Management (2014 – 2019), Texas A&M University
Assistant Professor, 2008–2014
Department of Ecosystem Science and Management, Texas A&M University
Research Assistant Professor/Research Associate, 2004–2008
Department of Biology, University of Utah
Postdoctoral Fellow, 2002–2004
Department of Ecology, Evolution, and Behavior, University of Minnesota

4. AWARDS AND RECOGNITION

2018 Excellence in Discovery / Innovation Award
Department of Ecosystem Science & Management, Texas A&M University
2015 Fulbright Scholar
Visiting Scientist post at INRA Bordeaux-Aquitaine, France
2013 Gail W. and David P. Marion '65 Teaching Award
College of Agriculture and Life Sciences, Texas A&M University

5. SELECTED INVITED PRESENTATIONS

Department of Plant Science, The Pennsylvania State University (2026)
Institute for Quantum Science and Engineering, Texas A&M University (2021)
Invited research seminar and short course, Brasilia, Brazil (2020; *postponed*), Department of Ecology, Biological Sciences Institute, University of Brasilia
Invited Plenary, Forensic Isotope Ratio Mass Spectrometry Conference, Trentino, Italy (2019)
Kansas State University Division of Biology Seminar Series, Manhattan, Kansas (2019)
Texas A&M University Geobiology Mass Spectrometry Lecture Series (2017)
University of Basel, Basel Switzerland (2016)
University of Bristol, Bristol, UK (2015)
L'Institut National de la Recherche Agronomique (INRA), Bordeaux, France (2015)

6. RESEARCH PROGRAM

Summary of research products

Type	Since last promotion	Career to date
Refereed journal articles	1	58
Edited books	0	1
Textbooks	0	1
Book chapters	0	10
Technical reports, published abstracts, etc.	0	7

Current funding

1. **United States Department of Agriculture, National Institute of Food and Agriculture**, 2022-2025. Wilcox, BP, B Wyatt, JB West, S Popescu. Thicketization of oak savannas: Can restoration lead to greater regional groundwater recharge. \$750,000. *External competitive grant*.

Previous funding

22. **United States Department of Agriculture, Agriculture and Food Research Initiative (USDA/AFRI)**, 2019-2024. Wilcox, BP and 5 co-PDs (West was one of 20 additional Senior Personnel and identified as a co-Investigator). Enhancing Livestock Production from Rangelands in the Great Plains. \$9,994,340. *External competitive grant*.
21. **Texas A&M Triads for Transformation (T3)**, 2021-2023. Zhang, Y, A Raymond, JB West. Reconstructing ancient atmospheric CO₂ levels using fossil leaves and their stable isotopes. \$30,000. *Internal non-competitive grant*.
20. **United States Department of Agriculture, Agriculture and Food Research Initiative (USDA/AFRI)**, 2019-2022. Loopstra, CA, JB West, C Casola. Integrating genomic data and physiological measurements to identify fast-growing, drought-tolerant loblolly pine varieties. \$499,985. *External competitive grant*.
19. **Dr. Michael Hurdzan Endowment, Golf Course Superintendents Association of America**, 2021-2022. Wherley, B, B Chang, C Straw, JB West. Late-Season Nitrogen Management for Bermudagrass Fairways in the Southern United States. \$30,000. *External competitive grant*.
18. **Texas A&M University, Dept. of ESSM - Savanna Long Term Research and Education Initiative (SLTREI)**, 2017-2020. JB West. Savanna carbon cycle responses to climate and anthropogenic change. \$227,783. *Internal non-competitive grant*

17. **Texas A&M Triads for Transformation (T3)**, 2018-2020. West, JB, B Roark, J Loisel. Tracing biological processes across scales with compound-specific isotope analysis (CSIA). \$30,000. *Internal non-competitive grant*
16. **Texas A&M University, Dept. of ESSM**, 2019. JB West. Funds for the purchase of a UV-Vis spectrophotometer. \$18,752. *Internal non-competitive grant*
15. **Texas A&M University - CAPES Collaborative Research Grant Program**, 2014-2019. Wilcox, B, J West. The influence of land use on the ecohydrology and biogeochemistry of the Brazilian Caatinga. \$50,000. *Internal competitive grant*.
14. **Texas A&M University, Dept. of ESSM - Savanna Long Term Research and Education Initiative (SLTREI)**, 2018. JB West. Funds for the purchase of meteorological and eddy flux instrumentation. \$144,300. *Internal non-competitive grant*
13. **Chancellors Research Initiative**, 2016-2017. Grossman, EL, T Boutton, B Roark, N Slowey, J West. Stable isotope partnership for ecology, environment, and energy research. \$1,042,929. *Internal competitive grant*
12. **Texas A&M University, Dept. of ESSM - Savanna Long Term Research and Education Initiative (SLTREI)**, 2017. JB West. Funds for the purchase of a gas exchange system. \$64,570. *Internal non-competitive grant*
11. **United States Department of Agriculture**, Agriculture and Food Research Initiative. 2011-2016. Martin, TA and the PINEMAP team (55 Co-PIs including West) PINEMAP: Integrating research, education and extension for enhancing southern pine climate change mitigation and adaptation, \$19,100,000. *External competitive grant*.
10. **Fulbright Commission**, 2015-2016. West, JB. Research Scholar. 23,400€. *External competitive fellowship* (not included in summary table)
9. **Texas A&M AgriLife Research Air Quality Seed Grant Program**, Texas A&M University System. 2013-2015. West, J, T Boutton. Identifying sources of N₂O production in agroecosystems, \$132,960. *Internal competitive grant*
8. **Wintergarden Groundwater Conservation District**. 2013-2014. West, JB, WE Rogers, R Lyons. Effects of brush removal on distributed recharge of the Carrizo-Wilcox aquifer: Continuing treatment response investigation, \$101,485. *External contract*
7. **Initiative for Digital Humanities, Media, and Culture**, Texas A&M University. 2013. West, JB and RK Garcia. IDHMC Collaboration grant, \$1,000. *Internal Competitive grant*
6. **Wintergarden Groundwater Conservation District**. 2010-2012. West, JB, WE Rogers, R Lyons. Effects of brush removal on distributed recharge of the Carrizo-Wilcox aquifer, \$209,407. *External contract*
5. **United States Geological Survey/Texas Water Resources Institute**. 2011-2012. Mattox, A, JB West. Effects of woody vegetation removal on groundwater recharge in the Carrizo-Wilcox aquifer, \$5,000. *Internal competitive grant*
4. **National Science Foundation**, Division of Biological Infrastructure. 2008-2012. Bowen, GJ, CC Miller, JB West, T Zhang, L Zhao. Enabling end-to-end geospatial data modeling workflows via INPort: The Isotope Networks Portal, \$831,573 (DBI: #0743543). *External competitive grant*
3. **United States Department of Agriculture**, National Institute of Food and Agriculture, Federal Initiative, 2009-2012. Harris, B and 29 co-PIs including West. Efficient Irrigation for Water Conservation in the Rio Grande Basin, \$1,545,600 (total for 2009 & 2010). *Internal competitive grant*
2. **Texas AgriLife Research Cropping Systems Program (State Initiative)**, Texas A&M University System. 2009-2011. Rowland, DL, TDA Forbes, FM Rouquette Jr, GR Smith, JB West. Enhancement of

water conservation and nitrogen efficiency through legume-based cropping systems, \$280,000.
Internal competitive grant

1. **National Science Foundation**, 2000-2002. Doctoral Dissertation Improvement Grant, Donovan, LA and JB West. Redundancy of belowground ecosystem function among native C₄ perennial bunchgrass species of *Pinus palustris* savannas. \$16,860. *External competitive grant*

7. TEACHING PROGRAM

Summary of graduate student mentoring

	Ph.D. total (completed)	M.S. total (completed)	Total (completed)
Chair or co-chair	3 (3)	7 (6)	10 (9)
Committees (internal)	24 (16)	12 (10)	36 (26)
Committee/evaluator (external)	2 (2)	3 (3)	5 (5)
Total	29 (21)	22 (19)	51 (40)

Educational Training

Certificate in Inclusive Instruction for Equitable Learning, Association of College and University Educators (2022). This certificate signifies my completion of a 5-module course in inclusive teaching practices requiring the implementation of evidence-based instructional approaches. The certificate distinguishes faculty for their commitment to educational excellence and student success.

Graduate student committees chaired or co-chaired

Current students (1 MS)

Veronica Zanco (MS, ECCB)

Thesis topic: *Tree-grass interactions belowground*

Former students (3 PhD, 6 MS)

Nicole Havrilchak (PhD, ECCB, 2025), *Physiological ecology of semi-arid savanna grasses*

Harrison Raub (MS, ESSM, 2020), *Scaling plant physiological processes from leaf to canopy using spectral reflectances*

Rachel Adams (PhD, ESSM, also co-advised by Tom Iliffe, 2020), *Lithologic and biological controls of deep rooting by trees in seasonally dry tropical forests*

Cynthia Wright (PhD, ESSM, also co-advised by Brad Wilcox, 2019), *responses of Caatinga ecosystems to recovery from woody plant harvests and livestock grazing*

Yang Zhang (MS, ESSM, also co-advised by Jason Vogel, 2016), *Mechanisms of soil respiration response to drought in Pinus taeda plantations*

Elizabeth Wilson (MS, ESSM, also co-advised by Jason Vogel, 2014), *Scaling leaf-level physiology to field assessments of drought tolerance in Pinus taeda*

April Mattox (MS, ESSM, 2013), *The effect of land management on potential distributed recharge of the Carrizo-Wilcox aquifer*

Li Fan (MS, RLEM, also co-advised by Georgianne Moore, 2012), *Effects of Arundo donax L on the Hydrology of a Rio Grande Riparian Zone*

Kui Li (MS, RLEM, also co-advised by Georgianne Moore, 2011), *Ecohydrological controls and effects of rhizome integration on the performance of Arundo donax in a Rio Grande riparian zone*

Graduate Committees, Texas A&M University

Summary of student committees

Student	Degree	Date completed
<i>Current</i>		
Jiaojiao Dong	Ph.D., Eco. & Cons. Bio.	enrolled
Kevin Perozeni	Ph.D., Rang., Wild., & Fish. Mgt.	enrolled
Caleb Shackelford	Ph.D., Soil & Crop Sci.	enrolled
Alejandro Atenas	Ph.D., Soil & Crop Sci.	enrolled
Benju Baniya	Ph.D., Eco. & Cons. Bio.	enrolled
Jordan Anderson	Ph.D., Eco. & Cons. Bio.	enrolled
Brooke Dominici	M.S., Eco. & Cons. Bio.	enrolled
Malik Nkrumah	Ph.D., Eco. & Cons. Bio.	enrolled
Dohee Kim	Ph.D., Eco. & Cons. Bio.	enrolled
Ashley Belknap	M.S., Eco. & Cons. Bio.	enrolled
<i>Completed</i>		
Kourtney Higgins	Ph.D., Geography	Spring 2026
Moeka Ono	Ph.D., Eco. Sci. & Mgt.	Fall 2025
Horia Olaru	Ph.D., Eco. Sci. & Mgt.	Spring 2025
Kaleigh Phelps	M.S., (non-thesis) Mar. Bio.	Summer 2025
Pedro Leite	Ph.D., Eco. & Cons. Bio.	Fall 2023
Natalie Aguirre	Ph.D., Entomology	Fall 2023
Graeme Cherry	MS., Soil & Crop Sci.	Summer 2023
Stephen Fowler	M.S., (non-thesis), Ecol. & Cons. Bio.	Spring 2022
Kate Von Ness	M.S., Geography	Spring 2021
Daianne Höfig	M.S., Oceanography	Spring 2021
Baoxin Chang	Ph.D., Soil & Crop Sciences	Summer 2020
Zack Gorman	Ph.D., Plant Pathology	Fall 2020
Jeff Martin	Ph.D., Wildlife & Fisheries	Spring 2020
Xiangmin Sun	Ph.D., Eco. Sci. & Mgt.	Fall 2019
Dorothy Menefee	Ph.D., Soil & Crop Sciences	Fall 2019
Yong Zhou	Ph.D., Eco. Sci. & Mgt.	Spring 2018
Keith Oster	M.S., Wildlife & Fisheries Sci.	Summer 2017
Ryan Mushinski	Ph.D., Eco. Sci. & Mgt.	Spring 2017
Nicole Bisang	Ph.D., Entomology	Spring 2016
Alexander Van Plantinga	Ph.D., Geology	Fall 2015
Ricardo Colón-Rivera	Ph.D., Eco. Sci. & Mgt.	Summer 2013
Carissa Wonkka	Ph.D., Eco. Sci. & Mgt.	Fall 2014
Paige Graves	M.S., Horticulture	Fall 2014
Reagan Heijl	M.S., Agronomy	Spring 2014
Young-Tae Choi	M.S., Forestry	Spring 2012
Andrew Jackson	M.S., Wildlife and Fisheries	Summer 2012

Graduate advising, international (4 total, 2 Ph.D., 2 M.S.)*Summary of international advising or evaluation*

Student	Degree	University	Date completed
Primary advisor			
Yann Cochet	MS-2 recherche, Earth, Ecology, and Environment	Université de Bordeaux	Summer 2016
External evaluator			
Florian Cueni	Ph.D. Advisor: Dr. Ansgar Kahmen	Philosophisch-Naturwissenschaftlichen Fakultät der Universität Basel	Fall 2020
Kirsten Retief	M.S., Conservation Biology Advisor: Dr. Adam West	Dept. of Biological Sciences, University of Cape Town	Spring 2014
Committee member			
Ane Fortes	Ph.D., Forest Ecology	Universidade Rural de Pernambuco	Spring 2020

Graduate advising, other (1 total, 1 M.S. non-thesis)*Summary of other advising*

Student	Degree	University	Date completed
Committee member			
Christy Pittman	M.S., non-thesis	Texas A&M, Galveston	Spring 2022

Postdoctoral scholars

Dr. Ian MacLachlan (2020 – 2022)

Genomics of loblolly pine water stress adaptation

Dr. Aline Jaimes-Hernandez (2018-2019)

Savanna ecosystem C and water fluxes

Dr. Saadat U. Malghani (2015-2016)

Isotopomers of N₂O fluxes from forest and grassland soils

Dr. M. Shahadat Hossain (2009-2010)

Spatial modeling of plant stable isotope ratio variation

Visiting scholars and students

Ane Fortes (2018-2019) PhD student, Universidade Federal Rural de Pernambuco

Photogrammetric and allometric scaling of savanna carbon

Amani Mahindawansa (2017) PhD student, Justus Liebig University Giessen

Modelling the soil evaporation isoscapes as a functional indicator to calculate the effect for water budget of rice fields in Southeast Asia

Prof. Fernando José Freire (2015-2016) Universidade Federal Rural de Pernambuco

Plant-soil interactions across gradients of agronomic intensity in the Caatinga

CAPES-TAMU faculty exchange program

Kennedy Nascimento de Jesus (2015) PhD student, Universidade Federal de Pernambuco

Soil C and N isotope ratios variation across disturbance and soil types in Caatinga

Brazilian graduate student "sandwich" program
 Iris van der Veen (2015) PhD student, Potsdam University
 A leaf water isoscape for the Himalayan region
 SPATIAL course research-in-residence
 Monica Warner (2015) PhD student, Mississippi State University
 Testing modern isoscapes using archaeological human enamel from Río Talgua, Honduras
 SPATIAL course research-in-residence
 Cristina Antunes (2015) PhD student, University of Lisbon and University of Campinas
 Groundwater stress indicators in coastal dune forests: from Tropics to Mediterranean
 SPATIAL course research-in-residence

Undergraduate student mentoring (internships / independent research)

Marcos Aleman (Texas A&M University) Spring 2021. Sid Kyle project intern; completed undergraduate thesis: "An Analysis of Low Light Conditions on C₄ Grasses of the Bouteloua Genus"
 Dillon See (Texas A&M University) Summer 2019. Sid Kyle project summer intern
 Scott McConaghy (Kansas State University) Summer 2013. PINEMAP summer intern
 Madison Wigley (Texas A&M University) Summer 2013. PINEMAP summer intern
 Emery Wolf (Texas A&M University) Summer 2013. Undergraduate Research Scholar
 Brandon Cawthon (Texas A&M University) Spring 2012-2013. Groundwater recharge
 Jenny King (Texas A&M University) Fall 2012. Forensic isotope internship

Chronology and student evaluation of classroom teaching

Summary of courses taught

Course	Title	Credit hours	When taught	Students enrolled	Evaluation (5.0 scale)
<i>Undergraduate</i>					
ECCB 285W	Directed Studies	1	Spring 2026	2	
REN215	Fundamentals of Ecology Laboratory	1	Fall 2011	190	N/A
			Fall 2012	192	N/A
			Fall 2013	193	N/A
			Fall 2014	194	N/A
			Fall 2016	190	N/A
			Fall 2017	250	N/A
			Fall 2018	251	N/A
			Fall 2019	246	N/A
			ESSM 311	Biogeochemistry and Global Change	3
Spring 2014	35	4.70			
Spring 2015	25	4.35			
Spring 2017	22	4.67			
Fall 2018	26	4.71			
Fall 2019	22	3.91†			
Fall 2020	22	4.67^			
Fall 2021	25	4.00^			
ECCB 485W	Directed Studies	1	Spring 2026	26	

WFSC 484	Internship		Fall 2021	1	N/A
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Graduate

ECCB 621	Plant Physiological Ecology	3	Fall 2025	13	
ESSM 685	Ecophysiology Readings	2	Fall 2016	5	N/A
EEBL 601	Physiological Ecology	1	Fall 2016	12	N/A
			Fall 2017	8	N/A
			Fall 2018	12	N/A
ESSM 689	Stable Isotope Ecology	1	Spring 2011	20	4.27
	Isotopes in the Biological Sciences	2	Spring 2013	9	N/A
ESSM 621	Plant Physiological Ecology	3	Fall 2011	10	4.47
			Fall 2012	6	4.63
			Fall 2013	6	4.52
			Fall 2017	8	4.68
			Fall 2018	11	4.48
			Fall 2020	13	4.70 [^]
RENH 681	Department Seminar	1	Spring 2011	13	4.89

‡Evaluations were changed to online-only this year, lowering the response rate to only 27%. [^]Number reported here is the result of deriving a fraction of maximum points for each question, taking an average across all instructor-relevant questions, then scaling this to 5 points in order to allow quasi-comparison to prior years that used a different metric. ECCB department average for the 2021 academic year was 4.15. ESSM department average for 2014-2020 was 4.37.

Other teaching contributions, international and domestic

Invited instructor for Isotopes in Spatial Ecology and Biogeochemistry (SPATIAL Short Course)
University of Utah, 2013-present (<http://itce.utah.edu>)

Invited instructor for Isoscapes summer school, Fondazione Edmund Mach, 2017

Invited Presentations, Texas A&M University

ESSM Graduate Student Association R Workshop, 2018

Involving and Engaging Students Using iPads, CTE Faculty Workshops, Spring 2014

PHIL 361: Metaphysics, Spring 2014

FIVS 481: Seminar in Forensic and Investigative Sciences, Spring 2012

GEOL 648: Stable Isotope Geology, Fall 2010

IDP Course Development, Texas A&M University

EEBX601: Physiological Ecology, part of the core sequence in the EEB PhD program

8. SERVICE PROGRAM

External Service

Review and assessment of tenure or promotion packets

Eight packets to date

Invited panel membership

Invited member, organizing committee for *Quantum Science Concepts in Enhancing Sensing and Imaging Technologies: Applications for Biology—A Workshop*. National Academy of Sciences (2020 – 2021)

Invited member, University of Utah SPATIAL course leadership committee (2021 – 2023)

Professional society leadership

Chair, Physiological Ecology Section, Ecological Society of America (2017-2019)

Secretary, Physiological Ecology Section, Ecological Society of America (2012-2013)

External advisory boards

Terrestrial Biogeochemistry Working Group, National Ecological Observatory Network (2017-2020)

Journal editorships

Subject Editor - *Ecosphere* (2013 - 2020)

Editorial Board - *PeerJ* (2017 - 2019)

Associate Editor - *Plant Ecology* (2014 - 2016)

Special issue guest editorships

Ecosphere (2013) “Isoscapes in ecology: integrating across scales with the isotopic record”

Journal of Geochemical Exploration (2009) “Isoscapes 2008: Isotope Mapping and its Applications”

Grant review panels

National Science Foundation (2010, 2012, 2013, 2014, 2015, 2017, 2019)

Grant reviewer (ad hoc)

Canada Foundation for Innovation (2024)

National Geographic Society (2016)

National Science Foundation (2011, 2016, 2017, 2018, 2020)

Department of Justice, National Institute of Justice (2011)

United States Department of Agriculture (2011)

National Sciences and Engineering Research Council of Canada (2009)

Kearney Foundation of Soil Science (2007)

Professional society participation

Member: American Geophysical Union, Ecological Society of America

Judge for Physiological Ecology section of the Ecological Society of America graduate student presentations (multiple years)

National and international delegations and workshops organized

Lead organizer of a workshop on “Stable isotopes in NEON” held in Boulder, CO January 6-8, 2014. The workshop included 15 invited scientists interested in research that may capitalize on NEON data products.

Co-convenor of a Special Session at the American Geophysical Union Fall 2012 Meeting: "Chemical Indicators of Pathways in the Water Cycle"

Co-organizer of an international multi-disciplinary meeting "Isoscapes 2011." This meeting was funded by the National Science Foundation (DBI grant #0743543, see above) and served as a follow-up to Isoscapes 2008, as well as a workshop for the project web portal and modeling platform IsoMAP (<http://isomap.org>)

Co-organizer of an international multi-disciplinary meeting "Isoscapes 2008: Isotope mapping and its applications" (<http://isoscapes2008.org>) funded by the National Science Foundation Research Coordination Networks "Biogeosphere-Atmosphere Stable Isotope Network (BASIN)" and "Migration Interest Group: Research Applied Toward Education (MIGRATE)," April 8-10, 2008

Co-organizer of a special session in The 6th International Conference on Applications of Stable Isotope Techniques to Ecological Studies (ISOECOL) on "Isotope Mapping to Address Ecological Questions," August 25-29, 2008

Co-organizer of American Geophysical Union organized session "Insights on Human Impacts on the Environment from Spatial Variation in Stable Isotope Ratios," with support from the Biogeosphere-Atmosphere Stable Isotope Network (BASIN; NSF Research Coordination Network), December 11, 2006

Co-author of response to the Request for Information from the National Ecological Observatory Network (NEON): Williams, D, RD Evans, JB West, JR Ehleringer. 2007. Isotope Network of Ecological Warning Signals (INEWS)

Journal Reviewer (selected list from 41 journals to date)

Agricultural and Forest Meteorology, Biogeosciences, Ecological Applications, Ecology, Ecology Letters, Environmental Sciences Europe, Functional Ecology, Geophysical Research Letters, Global Biogeochemical Cycles, Global Change Biology, Journal of Ecology, Hydrologic Processes, Hydrology and Earth System Sciences, JGR – Atmospheres, JGR – Biogeosciences, Nature Communications, Nature Scientific Reports, New Phytologist, Oecologia, Organic Geochemistry, Plant and Soil, Proceedings of the National Academy of Sciences, Rapid Communications in Mass Spectrometry, Tree Physiology, Water Resources Research

Texas A&M University service

Invited Public Lecture, Department of Chemistry (2017)

Isoscapes: The spatial fingerprints of biology on Earth's chemistry (First Year Chemistry Program, ~2,000 student attendees)

College of Agriculture and Life Sciences

Graduate Programs Committee (2020 – present)

Undergraduate Programs Committee (2020 – present)

Department of Ecology and Conservation Biology

Member of ad hoc departmental strategic planning committee (2020 – 2021)

Member of Tenure & Promotion Committee (2020 – present)

Member of Graduate Studies Committee (2020 – present)
Member of Undergraduate Studies Committee (2020 – present)

Department of Ecosystem Science and Management

Member of Tenure & Promotion Committee (2015 – 2019)

Member of Graduate Studies Committee (2011 – 2019)

Chair of Sid Kyle Research Facilities Committee (2015)

Member of Faculty Search Committees:

Assistant Professor – Plant Systematics (2018)

Assistant/Associate Professor – Forest Biology (2016)

Assistant Professor – Spatial Sciences (2012 – 2013)

Assistant Professor – Environmental Modeling (2012-2013; *search postponed*)

Member of Department Head Search Process Committee (2012)

Member of Awards and Recognition Committee (2012 – 2013)

Member of Social Committee (2012 – 2013)

Member of SRM Alumni Reception Committee (2012 – 2013)

Texas A&M AgriLife Research

Judge for Texas A&M AgriLife Conference Graduate Student Research Poster Competition (2010)

Member of search committee for Assistant Professor of Environmental Soil Chemistry, Texas AgriLife Research, Overton, Texas A&M University System (2009; *search postponed*)

Member of search committee for Assistant/Associate Professor of Agronomy, Texas AgriLife Research, Uvalde, Texas A&M University System (2008)

Texas A&M Graduate and Professional Studies

Reviewer, Merit Graduate Fellowship Applications 2014

Texas A&M Molecular and Environmental Plant Sciences IDP

Member of the Executive Committee 2012-2015

Chair of the 2014 Symposium Committee

Chair of the 2012 Symposium Committee (symposium canceled due to lack of funding)

Texas A&M Ecology and Evolutionary Biology IRP

Contributed to EEBX601 Physiological Ecology Core Course Syllabus in IDP proposal

9. RESEARCH OUTPUT

Refereed journal articles

**Chaired graduate student, †Other graduate student*

In review

1. Leite, PAM, JB West, MF Nehemy, DM Rempe, BP Wilcox. *in review*. Contrasting hydrologic niches of co-dominant woody encroaching species in shallow vs deep soils in a semiarid karst environment. Ecology
2. *Havrilchak, N, JB West. *in prep*. Divergent water-use strategies in C₄ grasses exposed to drought are associated with subfamily and aboveground biomass allocation strategies. Functional Ecology

Published

58. *Havrilchak, N, JB West. 2024. Responses of C₄ grasses to aridity reflect species-specific strategies in a semi-arid savanna. Ecosphere. Volume 15, Issue 8, e4986, doi.org/10.1002/ecs2.4986
57. *Wright, CA, JB West, ALA de Lima, ES Souza, M Medeiros, BP Wilcox. 2023. Contrasting water use strategies have distinct contributions to evapotranspiration in the Caatinga dry forest. Tree Physiology. doi.org/10.1093/treephys/tpad137
56. *Raub, HD, N Rajan, KJ McInnes, JB West. 2023. Excess energy and photosynthesis: Responses to seasonal water limitations in co-occurring woody encroachers of the semi-arid Southern Great Plains. Photosynthetica. 61(3):285-296.
55. *Adams, RE, JB West. 2022. Functional groups mask inter-and intraspecific variation in water use strategies in a seasonally dry tropical forest. Frontiers in Ecology and the Environment. 4, Article 950346.
54. *Wright, C, A Lima, E Souza, J West, B Wilcox. 2021. Plant functional types broadly describe water use strategies in the Caatinga, a seasonally dry tropical forest in northeast Brazil. Ecology and Evolution. doi.org/10.1002/ece3.7949.
53. †Li, J, JB West, A Hart, JL Wegrzyn, MA Smith, J-C Domec, CA Loopstra and C Casola. 2021. Extensive variation in drought-induced gene expression changes between loblolly pine genotypes. Frontiers in Genetics. 12:661440
52. †Sun, X, BP Wilcox, CB Zou, E Stebler, JB West, BM Wyatt. 2021. Isotopic partitioning of evapotranspiration in a mesic grassland during two wetting-drying episodes. Agricultural and Forest Meteorology. 301-302 (2021) 108321.
51. †Menefee, D., Rajan, N., Cui, S., Bagavathiannan, M., Schnell, R., & West, J. 2021. Simulation of dryland maize growth and evapotranspiration using DSSAT-CERES-Maize model. Agronomy Journal, 1-16, doi.org/10.1002/agj2.20524.
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7.2 Other scientific presentations

Other invited presentations

20. Cornell University, Ithaca (2012), Tracing the role of vegetation in water flux pathways with the isotope record
19. International Congress on Natural Products Research, New York, NY (2012), Botanical isoscapes: emerging stable isotope tools for geographic sourcing and authentication
18. Department of Ecosystem Science and Management, Texas A&M University (2011), New tools and insights in the interactions between vegetation and hydrologic processes
17. Department of Geology 5050 Seminar Series, Baylor University (2011), Ecohydrological insights across scales, from plant water sources to global isoscapes
16. Distinguished Lecture Series, Water Resources Program, Texas A&M University (2010), Ecohydrology under changing climate
15. Goldschmidt Conference, Knoxville, TN, (2010), session title: Bridging isotope effects in cellular metabolism to environmental scale tracer studies
14. Invited keynote - 15th CF-IRMS Workshop, Cornell University (2009) The emergence of isoscapes as tools for studying large-scale processes
13. University of Texas, San Antonio (2008) Ecosystem ecology in a dynamic world
12. Texas A&M University, College Station (2008) Terrestrial ecosystem function and response to change across scales
11. Texas AgriLife Research, Uvalde (2008) Terrestrial ecosystem function and response to change across scales
10. Eastern Nevada Landscape Coalition, Ely (2007) Global change and the ecosystems of the Great Basin
9. University of California, Davis (2007) Biogeochemical insights from spatially explicit stable isotope ratio modeling
8. University of Utah, Salt Lake City (2006) Geographic Information Systems and relational databases as tools for large scale exploration in Biology

7. Pacific Northwest National Laboratory, Richland (2005) Rizin geolocation by global spatial modeling of Castor Bean stable isotope ratios
6. University of New Mexico, Albuquerque (2005) Plant Isotope landscapes: IsoScapes
5. Gustavus Adolphus College, St. Peter (2004) Global change effects on belowground ecosystem function
4. Centre d'Ecologie Fonctionnelle et Evolutive, Montpellier (2003) Evidence for a negative productivity feedback underlying ecosystem response to diversity and N deposition
3. La Selva Biological Station, Costa Rica (2003) Linking plant traits, global change and nitrogen cycling
2. University of Minnesota, St. Paul (2003) Peering into the belowground worlds of the Carolina Sandhills and Minnesota prairies
1. University of North Carolina, Asheville (2001) Divergent nitrogen cycling influences of longleaf pine savanna bunchgrasses