

Jason B. West Curriculum Vita

1. PERSONAL INFORMATION

Jason B. West
Associate Professor
Dept. of Ecosystem Science & Management
Texas A&M University
College Station, TX 77845
Phone: (979) 845-3772
Email: jbwest@tamu.edu

2. EDUCATION

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

3. PROFESSIONAL EXPERIENCE

Associate Professor, 2014 – present

- Department of Ecosystem Science and Management, Texas A&M University
- Co-Director of the Stable Isotopes for Biosphere Science Laboratory
- Interdisciplinary Faculty Membership:
 - Ecology and Evolutionary Biology (2008 – present)
 - Molecular & Environmental Plant Sciences (2011 – present)
 - Forensic and Investigative Sciences Program (2011 – present)

Visiting Scientist, 2015-2016
l'Institut National de la Recherche Agronomique, Bordeaux-Aquitaine

Assistant Professor, 2008–2014
Department of Ecosystem Science and Management, Texas A&M University

Research Assistant Professor/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 Department of ESSM Excellence in Discovery / Innovation Award
2015-2016 Fulbright Scholar
2013 Gail W. and David P. Marion '65 Teaching Award

5. RESEARCH

Summary of research products

Type	Number
Refereed journal articles	41
Edited books	1
Textbooks	1
Book chapters	10
Technical reports, published abstracts, etc.	8

Publications (last 5 years)

1. Hyodo, A, S Malghani, Y Zhou, RM Mushinski, S Toyoda, N Yoshida, TW Boutton, JB West. 2019. Biochar amendment suppresses N₂O emissions but has no impact on ¹⁵N site preference in an anaerobic soil. Rapid Communications in Mass Spectrometry, 33:165-175.
2. †Antunes, C, S Chozas, J West, M Zunzunegui, M Cruz Diaz Barradas, S Vieira, C Máguas. 2018. Groundwater lowering drives ecophysiological adjustments of woody vegetation in a semi-arid coastal ecosystem. Global Change Biology, 24:4894-4908.
3. Chesson, LA, JE Barnette, GJ Bowen, JR Brooks, JF Casale, TE Cerling, CS Cook, CB Douthitt, JD Howa, JM Hurley, HW Kreuzer, MJ Lott, LA Martinelli, SP O'Grady, DW Podlesak, BJ Tipple, LO Valenzuela, JB West. 2018. Stable isotope analysis in plant and animal ecology - with application to forensic science in the Americas. Oecologia, 187(4):1077-1094.
4. †Filho, RA, MB Freire, B Wilcox, J West, F Freire, F Marques. 2017. Recovery of carbon stocks in deforested Caatinga dry forest soils requires at least 60 years. Forest Ecology and Management, 407(1):210-220.
5. Gimeno, TE, J Ogée, J Royles, Y Gibon, JB West, R Burlett, SP Jones, J Sauze, S Wohl, C Benard, B Genty and L Wingate. 2017. Bryophyte gas-exchange dynamics along varying hydration status reveal a significant COS sink in the dark and COS source in the light. New Phytologist, 215(3):965-976.
6. †Lu, M, K Krutovsky, CD Nelson, JB West, N Reilly, CA Loopstra. 2017. Association genetics of growth and adaptive traits in loblolly pine (*Pinus taeda* L.) using whole exome-discovered polymorphisms. Tree Genetics and Genomes, 13:57.
7. †Wonkka, CL, JB West, D Twidwell, WE Rogers. 2017. Grass mortality and turnover following core rangeland restoration practices. Rangeland Ecology and Management, 70(3):290-300.
8. *Zhang, Y, JG Vogel, C Meek, R Will, D Wilson, JB West. 2016. Wood decomposition by microbes and macroinvertebrates, and soil CO₂ efflux vary in response to throughfall reduction and fertilization in a loblolly pine (*Pinus taeda* L.) plantation. Forest Ecology and Management, 382:10-20.
9. Cerling, TE, JE Barnette, GJ Bowen, LA Chesson, JR Ehleringer, CH Remien, P Shea, BJ Tipple, JB West. 2016. Stable isotope forensic biogeochemistry. Annual Review of Earth and Planetary Sciences, 44:175-206.
10. Cernusak, LA, MM Barbour, AW Cheesman, NB English, TS Feild, BR Helliker, MM Holloway-Phillips, JAM Holtum, A Kahmen, FA McInerney, NC Munksgaard, KA Simonin, X Song, H Stuart-Williams, JB West, GD Farquhar. 2016 Stable isotopes in leaf water of terrestrial plants. Plant Cell & Environment, 39:1087-1102.
11. Moore, GW, F Li, L Kui, JB West. 2015. Flood water legacy as a persistent source for riparian vegetation during prolonged drought: An isotopic study of *Arundo donax* on the Rio Grande. Ecohydrology, 9:900-917.

12. #Wonkka, CL, D Twidwell, JB West, WE Rogers. 2015. Shrubland resilience varies across soil types: implications for operationalizing resilience in ecological restoration. Ecological Applications 26(1), 128-145.
13. Will, R, TR Fox, M Akers, J-C Domec, C Gonzalez-Benecke, E Jokela, M Kane, MA Laviner, G Lokuta, D Markewitz, M McGuire, C Meek, A Noormets, L Samuelson, J Seiler, B Strahm, R Teskey, J Vogel, E Ward, J West, D Wilson, T Martin. 2015. A Range-wide Experiment to Investigate Nutrient and Soil Moisture Interactions in Loblolly Pine Plantations. Forests 6(6), 2014-2028.
14. #Colón-Rivera, RJ, RA Feagin, JB West, NB López, RJ Benítez-Joubert. 2014. Hydrological modification, saltwater intrusion, and tree water use of a *Pterocarpus officinalis* swamp in Puerto Rico. Estuarine, Coastal and Shelf Science 147:156-167.

Invited seminars and conference talks (last 5 years)

1. Forensic Isotope Ratio Mass Spectrometry Conference (2019), Advances in the use of isoscapes in forensic applications
2. Kansas State University (2019), The importance of the belowground to dryland ecosystem responses to change
3. Texas A&M University Geobiology Mass Spectrometry Lecture Series (2017), Frontiers in the use of stable isotopes to study plant-atmosphere interactions
4. University of Basel, Bazel Switzerland (2016), Using stable isotopes to peer into leaves for answers to global-scale questions
5. University of Bristol, Bristol, UK (2015), Charting a multidisciplinary odyssey with isoscapes
6. Institut National de la Recherche Agronomique (INRA), Bordeaux, France (2015) Extending models of stable isotope fractionation in plants across disciplines and spatiotemporal scales with isoscapes

6. TEACHING, MENTORING AND SERVICE

Professional society leadership

Co-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-present)

Journal editorships

Editorial Board - PeerJ (2017 - present)
 Subject Editor - Ecosphere (2013 - present)
 Associate Editor - Plant Ecology (2014 - 2016)

Postdoctoral scholars

Dr. Aline Jaimes-Hernandez (2018-present)
 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) PhD student, Universidade Federal Rural de Pernambuco
 Photogrammetric and allometric scaling of savanna carbon
 Brazilian graduate student "sandwich" program
- 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

Summary of graduate student mentoring

	Ph.D. total (completed)	M.S. total (completed)	Total (completed)
Chair or co-chair	4 (0)	6 (5)	10 (5)
Committees (internal)	10 (3)	4 (4)	14 (7)
Committees (external)	0	2 (2)	2 (2)
Total	14 (3)	12 (11)	26 (14)

Summary of courses taught

Course	Title	Credit hours	When taught	Students enrolled
REN215	Fundamentals of Ecology Laboratory	1	2011-2018	190
ESSM 311	Biogeochemistry and Global Change	3	2013-2018	44
ESSM 685	Ecophysiology Readings	2	2016	5
EEBL 601	Physiological Ecology	1	2016-2018	12
ESSM 689	Stable Isotope Ecology	1	2011, 2013	20
ESSM 621	Plant Physiological Ecology	3	2011-2018	10