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AMY ZANNE

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Education & training

- 2005-08 Post-doc (joint), NESCent, **Duke University**, NC, USA. NSF IRFP, **Macquarie University**, NSW, Australia. **University of California, Berkeley**, CA, USA
- 2003-04 Post-doc, **Tufts University**, Medford, MA, USA
- 2003 PhD, Ecology & Evolutionary Biology, **University of Florida**, Florida, USA
- 1998 MS, Ecology & Evolutionary Biology, **University of Florida**, Florida, USA
- 1992 BA, Biology, **Dartmouth College**, USA, New Hampshire, USA

Appointments

- 2024- **Senior Scientist**, Cary Institute of Ecosystem Studies, Millbrook, NY, USA.
- 2021- **Aresty Chair in Tropical Ecology** and Professor, Department of Biology, University of Miami, Miami, FL, USA.
- 2021-23 Research Professor, George Washington University, Washington, DC, USA.
- 2014-21 Associate Professor, George Washington University, Washington, DC, USA.
- 2012-14 Assistant Professor. George Washington University, Washington, DC, USA
- 2008-12 Assistant Professor, University of Missouri, St. Louis, MO, USA

Editorial & Advisory Board Appointments

- 2022-24 Advisory Committee, Abess Center for Ecosystem Science and Policy, FL, USA
- 2021- Advisory Board member, Restor Platform. ETH Zurich, Zurich, Switzerland
- 2019- Editorial Board, *New Phytologist*
- 2015- Associate Editor, *Journal of Plant Hydraulics*
- 2015-18 Associate Editor, *Journal of Ecology*
- 2017-18 Advisory Board, *New Phytologist*
- 2011-14 Editor, *Frontiers in Functional Plant Ecology*

Other Appointments

- 2022-24 Associate Chair of Department of Biology. University of Miami, Miami, FL, USA
- 2022- Visiting Professor of Plant Biology. University of Campinas, Campinas, Sao Paulo, Brazil.
- 2022- Project Collaborator, Florida Coastal Everglades LTER. Florida International University, Miami, FL, USA.
- 2011- Honorary Associate, Downing Herbarium, Macquarie University, Sydney, NSW, Australia.
- 2008- Research Associate, Center for Conservation and Sustainable Development.

- Missouri Botanical Garden, St. Louis, MO, USA.
 2008- Honorary Associate. Macquarie University, Sydney, NSW, Australia
 2013-21 Research Associate, National Museum of Natural History, Smithsonian Institution, Washington, DC, USA.
 2013-21 Affiliate, Computational Biology Institute, George Washington University, Washington, DC, USA.
 2015-16 IdEx Visiting Scholar. University of Bordeaux, Bordeaux, France.
 2012-13 Visiting Fellow. University of Western Sydney, Richmond, NSW, Australia.
 2005 Visiting Scholar. University of Minnesota, St. Paul, MN. Based at Macquarie University, North Ryde, NSW, Australia.
 2005 Visiting Scholar. Masaryk University, Brno, Czech Republic

Selected Awards

- 2021 Ecological Society of America Fellow
 2019 Fellow of the International Academy of Wood Sciences
 2018 Highly cited researcher, Web of Science and Clarivate Analytics, Cross Field
 2010 University of Missouri - St. Louis, Gerald and Deanne Gitner Excellence in Teaching Award

Research Funding

- 2024-29 Collaborative Research: NSFDEB-NERC: Spatial and temporal tradeoffs in CO₂ and CH₄ emissions in tropical wetlands. NSF. PI. **\$1,312,626 USD + 300,000 GBP**
 2024-28 AccelNet-Implementation Phase 1: MICROBENet-Net: Multi-Institute Collaborative Research on BELOWground plant-microbial interactions Network of Networks. NSF. Co-PI. **\$1,500,000 USD**
 2024-26 Interactions between drivers of wood decay and their contributions to carbon cycling (IBDWCCCC). ILTER Research Initiatives. **10835 €**
 2023- Dark septate fungi of the semi-arid region: are they a hidden solution to agricultural productivity and drought tolerance? CNPq, Brazilian Government. Co-PI. **140,000 R**
 2018-22 EAGER: Disentangling the effects of ecological clade sorting and adaptive diversification to the assembly of regional biotas. US NSF. Co-PI. **\$14,016**
 2017-23 Tropical deadwood carbon fluxes: Improving carbon models by incorporating termites and microbes + REU supplements. US NSF. PI. **\$556,318**
 2017-19 LabEx - Laboratory of Excellence, Forecasting changes in microclimate and microbial diversity within tree canopies under climate change scenarios. Co-PI. French Government. PI. **€70,064**
 2016-20 Workshop: Forming an integrated understanding of function across fungi: NCEAS and Santa Barbara, CA. US NSF. PI. **\$72,502 USD**
 2016-19 Closing the carbon cycle: an ecological understanding of wood decay. AUS NSF. CoPI. Australia Research Council Discovery Grant. **\$324,700 AUD**
 2016-18 DISSERTATION RESEARCH: Metatranscriptomics links phenology with community dynamics and ecosystem function in wood decay fungi. US NSF. PI **\$19,811 USD**
 2015-16 IdEx Visiting Fellowship. University of Bordeaux, France. PI, **€27,000.**

- 2014-15 George Washington University, Columbian College Facilitating Fund. PI, **\$9,000**
- 2014 Washington University in St. Louis, International Center for Advanced Renewable Energy and Sustainability. PI. **\$43,000**
- 2013-14 George Washington University. Facilitating Fund. PI. **\$18,000**
- 2013-14 George Washington University, Opportunity Fund Research Grants Program. PI. **\$49,973.**
- 2012-13 International Research Initiatives Scheme. University of Western Sydney, Australia. PI. **\$14,800 AUS.**
- 2011-17 **CAREER:** Influences of plant traits on wood decomposition rates across scales: From fungal microbe communities to carbon turnover. US NSF. PI. **\$780,000.**
- 2010-12 University of Missouri, Research Board Award. PI. **\$49,940.**
- 2010 iPlant IPTOL Education and Outreach for conversion of APweb. CO-PI. **\$150,750.**
- 2010 Small Grant Fund. University of Missouri – St. Louis. PI. **\$1,000.**
- 2008-09 Research Award. University of Missouri – St. Louis. PI. **\$12,500.**
- 2008 Royal Botanic Gardens, Kew, Bentham-Moxon Grant, UK. PI. **£1,700.**
- 2006-08 NESCent Postdoctoral Fellowship. PI. **\$80,000.**
- 2005-07 International Research Fellowship Program. US NSF. PI. **\$140,436.**

Peer Reviewed Publications & Book Chapters

**denotes undergraduate and graduate students and postdoctoral scholars I have trained.*

***denotes lead or senior author.*

In review

- *Yatsko, Abbey; *Flores-Moreno, Habacuc; *Fitzgerald, Michaela; ****Zanne, Amy**. Rotten to the core? How internal stem damage varies vertically in savanna trees and is influenced by tree species, traits, and external damage pressures (In Review). ***Journal of Ecology***
- *Wijas, Baptiste; Flores-Moreno, Habacuc; Allison, Steven; Cernusak, Lucas; Cheesman, Alex; Eggleton, Paul; Kooyman, Robert; Powell, Jeff; ****Zanne, Amy**. Decadal recovery of fungal but not termite deadwood decay in tropical rainforest (In Review). ***Journal of Applied Ecology***
- *Wijas, Baptiste; Cornwell, Will; Powell, Jeff; Oberle, Brad; ****Zanne, Amy** (In Review) Faster than expected: Release of nitrogen and phosphorus from decomposing wood. ***New Phytologist***
- *Yatsko, A, *Wijas, B, Calbert, J, Cheesman, A, Cook, K, Eggleton, P, Gambold, I, Jones, C, Russel-Smith, P, ****Zanne, AE**. (In Review) Why are trees hollow? Termites, microbes and tree internal stem damage in a tropical savanna. ***Functional Ecology***.
- de Bello, Francesco; Fischer, Felícia; Puy, Javier; Shipley, Bill; Verdú, Miguel; Götzenberger, Lars; Lavorel, Sandra; Moretti, Marco; Wright, Ian; Berg, Matty; Carmona, Carlos; Cornelissen, Johannes; Dias, André; Gibb, Heloise; Lepš, Jan; Madin, Joshua; Májeková, Maria; Pausas, Juli; Segrestin, Jules; Sobral, Mar; Zanne, Amy; Garnier, Eric. Raunkiaeran Shortfalls in Trait-Based Ecology: Challenges and Perspectives (In Review) ***Ecological Monographs***.
- *Cavanaugh, Nora, ****Zanne, Amy E.**, Cornwell, William K. (In Review) Global distribution of vascular epiphyte diversity. ***Frontiers in Biogeography***.
<https://ecoevorxiv.org/repository/view/6276/>.

2024

- Njoroge, Denis Mburu, Gbadamassi G.O. Dossa, Douglas Schaefer, Juan Zuo, Michael D. Ulyshen, Sebastian Seibold, **Amy E. Zanne**, Brad Oberle, Rhett D. Harrison, Shengjie Liu, Xiaobo Li, Tone Birkemoe, Melanie K. Taylor, Philip J. Burton, David B. Lindenmayer, Jari Kouki, Yagya Adhikari, Johannes H. C. Cornelissen. 2024. The effects of invertebrates on wood decomposition across the world. *Biological Reviews*. <https://doi.org/10.1111/brv.13134>
- *Law, Stephanie; *Flores-Moreno, Habacuc; Parr, Catherine; Adu-Bredu, Stephen; Bunney, Katherine; Cornwell, William; Evouna Ondo, Fidèle; Powell, Jeff; Quansah, Gabriel; Robertson, Mark; ****Zanne, Amy Elise**; Eggleton, Paul. 2024. Biogeographical variation in termite distributions alters global deadwood decay. *Global Ecology and Biogeography*. E13915.
- *Duan, E S, *L Chavez Rodriguez, *N Hemming-Schroeder, *B Wijas, *H Flores-Moreno, A W Cheesman, L A Cernusak, M J Liddell, P Eggleton, ****A E Zanne**, S D Allison. 2024. Wood microclimate as a predictor of carbon dioxide fluxes from deadwood in tropical Australia. *EGUsphere*. 21: 3321-3338. <https://egusphere.copernicus.org/preprints/2023/egusphere-2023-1952/>.
- *Law, Stephanie; Allison, Steven; Davies, Andrew; *Flores-Moreno, Habacuc; *Wijas, Baptiste; *Yatsko, Abbey; Zhou, Yong; ****Zanne, Amy**; Eggleton, Paul. 2024. The problem with estimating global termite methane emissions. *Global Change Biology*. 30: e17390
- Calvert, Jed, *Abbey R. Yatsko, Judy Bresgi, Alexander W. Cheesman, Keith Cook, James Crowe, Indigo Gambold, Caleb Jones, Liam O'Connor, Tony Peter, Pedro Russell-Smith, Elisha Taylor, Blair Trigger, *Baptiste Wijas, ****Amy E. Zanne**. (In Press) Internal stem damage and tree size affect aboveground biomass estimates using terrestrial laser scanning. *Methods in Ecology and Evolution*. <https://ecoevorxiv.org/repository/view/6027/>.
- *Wijas, Baptiste J., Steven D Allison, Amy T Austin, Will K Cornwell, J Hans C Cornelissen, Paul Eggleton, Shawn Fraver, Mark KJ Ooi, Jeff R Powell, Christopher W Woodall, ****Amy E Zanne**. 2024. The role of deadwood in the carbon cycle: Implications for models, forest management, and future climates. *Annual Review in Ecology Evolution and Systematics*.
- *D'Angioli, A, **Zanne, AE**, Constantino, R, Oliveira, R. 2024. Termites are key drivers of short-term deadwood decay in grasslands and savannas, but not woodlands of Brazilian Cerrado. *Austral Ecology*. 49: e13486
- *Wijas, Baptiste, *Flores-Moreno, Habacuc, Allison, Steven, Chavez Rodriguez, Luciana, Cheesman, Alexander, Cernusak, Lucas, *Clement, Rebecca, Cornwell, Will, Duan, Elizabeth, Eggleton, Paul, *Rosenfield, Marc, *Yatsko, Abbey, ****Zanne, Amy**. 2024. Drivers of Wood Decay in Tropical Ecosystems: Termites vs. Microbes Along Spatial, Temporal and Experimental Precipitation Gradients. *Functional Ecology*. 38: 545-559
- *Flores-Moreno, Habacuc, *Abbey R. Yatsko, Alexander W. Cheesman, Steven D. Allison, Lucas A. Cernusak, *Rose Cheney, *Rebecca Clement, Wendy Cooper, Paul Eggleton, Rigel Jensen, *Marc Rosenfield, ****Amy E. Zanne**. 2024. Higher internal stem damage in dry compared to wet tropics: where are we overestimating forest biomass? *New Phytologist*. 241: 1047-1061

2023

- *Bartlett, Kelsey, Matthew W. Austin, James B. Beck, ****Amy E. Zanne**, Adam B. Smith. 2023. Beyond the usual climate? Factors determining flowering and fruiting phenology across a

genus over 117 years. *American Journal of Botany*. 110: e16188.

Aguilar-Trigueros, Carlos A, Franz-Sebastian Krah, William K. Cornwell, **Amy E Zanne**, Nerea Abrego, Ian C Anderson, Carrie J Andrew, Petr Baldrian, Claus Bässler, Andrew Bissett, V Bala Chaudhary, Baodong Chen, Yongliang Chen, Manuel Delgado-Baquerizo, Coline Deveautour, Eleonora Egidi, *Habacuc Flores-Moreno, Jacob Golan, Jacob Heilmann- Clausen, Stefan Hempel, Yajun Hu, Håvard Kausserud, Stephanie N Kivlin, Petr Kohout, Daniel R Lammel, Fernando T. Maestre, Anne Pringle, Jenna Purhonen, Brajesh K Singh, Stavros D. Veresoglou, Tomáš Větrovský, Haiyang Zhang, Matthias C. Rillig, Jeff R. Powell. 2023. Symbiosis shapes offspring size across the fungal kingdom. *Ecology Letters*. 26: 1523-1534.

Law, Stephanie, *Flores-Moreno, Habacuc, Cheesman, Alex, *Clement, Rebecca, *Rosenfield, Marc, *Yatsko, Abbey, Cernusak, Lucas, Dalling, James, Canam, Tom, Abo Iqsaysa, Isra, Allison, Steven, Eggleton, Paul, ****Zanne, Amy E**. 2023. Wood traits explain microbial but not termite decay in Australian tropical rainforest and savanna. *Journal of Ecology*. 11: 982-993

Cornelissen, JHC, William K. Cornwell, Grégoire T. Freschet, James T. Weedon, Matty P. Berg, **Amy E. Zanne**. 2023. Co-evolutionary legacies on plant decomposition. *Trends in Ecology and Evolution*. 38: 44-54. DOI: 10.1016/j.tree.2022.07.008.

2022

****Zanne, AE**, *Habacuc Flores-Moreno, Jeff R. Powell, William K. Cornwell, James W. Dalling, Amy T. Austin, Aimee T. Classen, Paul Eggleton, Kei-ichi Okada, Catherine L. Parr, E. Carol Adair, Stephen Adu-Bredu, Md Azharul Alam, Carolina Alvarez-Garzón, Deborah M.G. Apgaua, Roxana Aragón, Marcelo Ardón, Stefan K. Arndt, Louise A. Ashton, Nicholas A. Barber, Jacques Beauchene, Matty P. Berg, Jason Beringer, Matthias M. Boer, José Antonio Bonet, Katherine Bunney, Tynan J. Burkhardt, Dulcineia de Carvalho, Dennis Castillo-Figueroa, Lucas A. Cernusak, Alexander William Cheesman, Taina M. Cirne-Silva, Jamie Cleverly, Johannes H.C. Cornelissen, Timothy J. Curran, *André Mouro D'Angioli, Caroline Dallstream, Nico Eisenhauer, Fidele Evouna Ondo, Alex Fajardo, Romina D. Fernandez, Astrid Ferrer, Marco Aurélio Leite Fontes, Mark L. Galatowitsch, Grizelle González, Felix Gottschall, Peter R. Grace, Elena Granda, Hannah M. Griffiths, Mariana Guerra Lara, Motohiro Hasegawa, Mariet M. Hefting, Nina Hinko-Najera, Lindsay B. Hutley, Jennifer M. Jones, Anja Kahl, Mirko Karan, Joost A. Keuskamp, Tim Lardner, Michael J. Liddell, Craig Macfarlane, Cate Macinnis-Ng, Ravi Fernandes Mariano, M. Soledad Méndez, Wayne S. Meyer, Akira S. Mori, Aloysio Souza de Moura, Matthew Northwood, Romà Ogaya, Rafael S. Oliveira, Alberto Orgiazzi, Juliana Pardo, Guille Peguero, Josep Penuelas, Luis Ignacio Perez, Juan Manuel Posada, Cecilia Margarita Prada, Tomáš Přívětivý, Suzanne M. Prober, Jonathan Prunier, Gabriel Willie Quansah, Víctor Resco de Dios, Ronny Richter, Mark Peter Robertson, Lucas Fernandes Rocha, Megan A. Rúa, Carolina Sarmiento, Richard P. Silberstein, Mateus Cardoso Silva, Flávia Freire Siqueira, Matthew Glenn Stillwagon, Jacqui Stol, Melanie K. Taylor, Francois Philippe Teste, David Yue Phin Tng, David Tucker, Manfred Türke, Michael D. Ulyshen, Oscar J. Valverde-Barrantes, Eduardo van den Berg, Richard S.P. van Logtestijn, G.F. (Ciska) Veen, Jason G. Vogel, Timothy J. Wardlaw, Georg Wiehl, Christian Wirth, Michaela J. Woods, Paul-Camilo Zalamea. 2022. Temperature sensitivity of termites determines global wood decay rates. *Science*. 377: 1440-1444.

Diaz, Sandra, Jens Kattge, J. Hans C. Cornelissen, Ian Wright, Sandra Lavorel, Stéphane Dray, Björn Reu, Michael Kleyer, Christian Wirth, I. Colin Prentice, Eric Garnier, Gerhard Boenisch, Mark Westoby, Hendrik Poorter, Peter Reich, Angela Moles, John Dickie, **Amy Zanne**, Jerome Chave, Stuart Wright, Serge Sheremetiev, Hervé Jactel, Christopher

Baraloto, Bruno Cerabolini, Simon Pierce, Bill Shipley, Fernando Casanoves, Julia Joswig, Angela Günther, Valeria Falczuk, Nadja Rüger, Miguel Mahecha, Lucas Gorné, Bernard Amiaud, Owen Atkin, Michael Bahn, Dennis Baldocchi, Michael Beckmann, Benjamin Blonder, William Bond, Ben Bond-Lamberty, Kerry Brown, Sabina Burrascano, Chaeho Byun, Giandiego Campetella, Jeannine Cavender-Bares, F. Chapin, III, Brendan Choat, David Coomes, William Cornwell, Joseph Craine, Dylan Craven, Matteo Dainese, Alessandro de Araujo, Franciska de Vries, Tomas Domingues, Brian Enquist, Jaime Fagúndez, Jingyun Fang, Fernando Fernández-Méndez, Maria Fernandez-Piedade, Henry Ford, Estelle Forey, Gregoire Freschet, Sophie Gachet, Rachael Gallagher, Walton Green, Greg Guerin, Alvaro Gutiérrez, Sandy Harrison, Wesley Hattingh, Tianhua He, Thomas Hickler, Steven I Higgins, Pedro Higuchi, Jugo Ilic, Robert Jackson, Adel Jalili, Steven Jansen, Fumito Koike, Christian König, Nathan Kraft, Koen Kramer, Holger Kreft, Ingolf Kühn, Hiroko Kurokawa, E. G. Lamb, Daniel Laughlin, Michelle Leishman, Simon Lewis, Frédérique Louault, Ana Malhado, Peter Manning, Patrick Meir, Maurizio Mencuccini, Julie Messier, Regis Miller, Vanessa Minden, Jane Molofsky, Rebecca Montgomery, Gabriel Montserrat-Martí, Marco Moretti, Sandra Müller, Ülo Niinemets, Romà Ogaya, Kinga Öllerer, Vladimir Onipchenko, Yusuke Onoda, Wim Ozinga, Juli Pausas, Begoña Peco, Josep Penuelas, Valério Pillar, Clara Pladevall, Christine Römermann, Lawren Sack, Norma Salinas, Brody Sandel, Jordi Sardans, Brandon S. Schamp, Michael Scherer-Lorenzen, Ernst-Detlef Schulze, Fritz Schweingruber, Satomi Shiodera, Ênio Sosinski Jr, Nadejda Soudzilovskaia, Marko Spasojevic, Emily Swaine, Nathan Swenson, Susanne Tautenhahn, Ken Thompson, Alexia Totte, Rocío Urrutia, Fernando Valladares, Peter Bodegom, François Vasseur, Kris Verheyen, Denis Vile, Cyrille Violle, Betsy von Holle, Patrick Weigelt, Evan Weiher, Michael Wiemann, Mathew Williams, Justin Wright, and Gerhard Zotz. 2022. The global spectrum of plant form and function: enhanced species-level trait dataset. *Scientific Data*. 9: 1-18.

Cavender-Bares, J, Nelson, E, Meireles, JE, Lasky, JR, Miteva, D, Nowak, D, Pearse, W, Kraft, N, Helmus, M, **Zanne, AE**, Faga1, W, Mihiar, C, Polasky, S. 2022. The hidden value of trees: quantifying the ecosystem services of tree lineages and their major threats across the continental US. *PLOS Sustainability and Transformation*. 1: e00000010.

*Lee, M, Powell, JR, **Oberle, B, Unda, F, Mansfield, SD, Brice, K, Rigg, J, Cornwell, WK, ****Zanne, AE**. 2022. Initial wood trait variation overwhelms endophyte community effects for explaining decay trajectories. *Functional Ecology*. 36: 1243-1257.

2021

Falster, Daniel, Rachael Gallagher, Elizabeth Wenk, Ian Wright, Dony Indiarto, Caitlan Baxter, Sam Andrew, James Lawson, Stuart Allen, Anne Fuchs, Anna Monro, Mark Adams, Collin W. Ahrens, Matthew Alfonzetti, Tara Angevin, Julian Ash, Owen Atkin, Tony Auld, Andrew Baker, Anthony Bean, Chris Blackman, Keith Bloomfield, David Bowman, Jason Bragg, Willi A. Brand, Amber Briggs, Tim Brodribb, Genevieve Buckton, Don Bulter, Geoff Burrows, Elizabeth Caldwell, James Camac, Raymond Carpenter, Jane A. Catford, Gregory Cawthray, Lucas Cernusak, Gregory Chandler, Alex Chapman, David Cheal, Alex Cheesman, Si-Chong Chen, Robert Chinnock, Brendan Choat, Derek Clayton, Brook Clinton, Peta Clode, Michelle Cochrane, Helen Coleman, William Cornwell, Meredith Cosgrove, Ian Cowie, Michael Crisp, Erika Cross, Kristine Crous, Saul Cunningham, Ellen Curtis, Matthew Daws, Jane L. DeGabriel, Matthew Denton, Ning Dong, Honglang Duan, David Duncan, Richard P. Duncan, Marco Duretto, John M. Dwyer, Derek Eamus, Cheryl Edwards, Manuel Esperon-Rodriguez, John Evans, Susan Everingham, Jennifer Firn, Carlos Fonseca, Ben French, Allison Frith, Doug Frood, Jennifer Funk, Ronald Gardiner, Sonya Geange, Oula Ghannoum, Sean Gleason, Carl Gosper, Emma Gray, Philip K Groom, Caroline Gross, Peter Grubb, Greg Guerin, Lydia Guja, Amy Hahs, Matthew Tom

- Harrison, Foteini Hassiotou, Patrick Hayes, Martin Henery, John Herbohn, Dieter Hochuli, Jocelyn Howell, Jing Hu, Guomin Huang, Lesley Hughes, John Huisman, Jugo Ilic, Ashika Jagdish, Daniel Jin, Gregory Jordan, Enrique Jurado, Sabine Kasel, Greg Keighery, Jürgen Kellermann, James Kirkpatrick, Michele Kohout, Robert Kooyman, Martyna Kotowska, John Kuo, Hoa Ran Lai, Etienne Laliberte, Hans Lambers, Byron Lamont, Robert Lanfear, Frank van Langevelde, Daniel C. Laughlin, Bree-Anne Laugier-Kitchener, Caroline Lehmann, Andrea Leigh, Michelle Leishman, Tanja Lenz, Brendan Lepschi, James Lewis, Felix Lim, Liz Lindsay, Udayangani Liu, Janice Lord, Ian Lunt, Christopher Lusk, Catriona Macinnis- Ng, Hannah MacPherson, Anthony Manea, Bruce Maslin, Riah Mason, Margaret Mayfield, Richard Mazanec, James McCarthy, Matthew McGlone, Trevor Meers, Marlien van der Merwe, Daniel Metcalfe, Per Milberg, Karel Mokany, Angela Moles, Ben D. Moore, Nicholas Moore, John Morgan, William Morris, Annette Muir, Samantha Munroe, Des Nelson, Aine Nicholson, Dean Nicolle, Adrienne Nicotra, Ule Niinemets, Tom North, Andrew O'Reilly-Nugent, Odhran S. O'Sullivan, Brad Oberle, Yusuke Onoda, Mark Ooi, Colin P. Osborne, Grazyna Paczkowska, Caio Guilherme Pereira, Catherine Pickering, Melinda Pickup, Laura Pollock, Pieter Poot, Jeff R. Powell, Sally A. Power, Iain Colin Prentice, Aina Price, Lynda Prior, Suzanne Prober, Jennifer Read, Victoria Reynolds, Anna Richards, Ben Richardson, Bryan Roberts, Michael Roderick, Julieta A. Rosell, Maurizio Rossetto, Barbara Rye, Paul D. Rymer, Miguel de Salas, Michael Sams, Gordon Sanson, Susanne Schmidt, Ernst-Detlef Schulze, Andrew John Scott, Kerrie Sendall, Steven Sinclair, Benjamin Smith, Renee Smith, Santiago Soliveres, Fiona Soper, Ben Sparrow, Amanda Spooner, Rachel Standish, Timothy Staples, George Stewart, Jan Suda, Guy Taseski, Daniel Taylor, Freya Thomas, Ian Thompson, David Tissue, Mark G. Tjoelker, Yue Phin David Jeremiah-Seok Tng, Kyle Tomlinson, Malcolm Trudgeon, Neil C. Turner, Erik Veneklaas, Susanna Venn, Peter Vesk, Carolyn Vlasveld, Maria Vorontsova, Charles Warren, Lasantha K. Weerasinghe, Mark Westoby, Matthew White, Nick Williams, Jarrah Wills, Peter Wilson, Colin Yates, **Amy Zanne**, Kasia Zieminska. 2021. AusTraits – a curated plant trait database for the Australian flora. **Scientific Data**. 8: 254
- Linan, Alexander, Jonathan A. Myers, Christine E. Edwards, **Amy E. Zanne**, Stephen A. Smith, Iván Jiménez, Gabriel Arellano, Leslie Cayola, William Farfan-Ríos, Alfredo F. Fuentes, Karina Garcia-Cabrera, Sebastián Gonzales-Caro, M. Isabel Loza, Manuel J. Macía, Yadvinder Malh, Norma Salinas Revilla, Miles Silman and J. Sebastián Tello. 2021. The evolutionary assembly of forest communities along environmental gradients: recent diversification or sorting of pre-adapted clades? **New Phytologist**. 232: 2506-2519.
- *Clement, Rebecca A, *Habacuc Flores-Moreno, Lucas A Cernusak, Alexander William Cheesman, *Abbey Yatsko, Steven D Allison, Paul Eggleton and ****Amy E Zanne**. 2021. Assessing the Australian termite diversity anomaly: how habitat and rainfall affect termite assemblages. **Frontiers in Ecology and Evolution** - Behavioral and Evolutionary Ecology: Advances in the Evolutionary Ecology of Termites. 9: 237.
- Scarff, F.R., Lenz, T., Richards, A.E., **Zanne, A.E.**, Wright, I.J., Westoby, M. 2021. Effects of plant hydraulic traits on the flammability of live fine canopy fuels. **Functional Ecology**. 35: 835-846.
- *Fort, T, Pauvert, C, **Zanne, AE**, Ovaskainen, O, Caignard, T, Barret, M, Compant, S, Hampe, A, Delzon, S, Vacher, C. 2021. Maternal effects shape the seed mycobiome in *Quercus petraea*. **New Phytologist**. 230: 1594-1608.
- Powell, JR, Blyton, M, *Oberle, B, Powell, GL, Rigg, J, Young, D, **Zanne, AE**. *Chapter 10: Extraction and purification of DNA from wood at various stages of decay for metabarcoding of wood-associated fungi*. 2021. Plant Microbiome. **Methods in Molecular Biology**. (Eds. Carvalhais, L, Dennis, P) Springer, NY. Pp 113-122

2020

Díaz, S, N Zafra-Calvo, A Purvis, PH Verburg, D Obura, P Leadley, R Chaplin-Kramer, L De Meester, E Dulloo, B Martín-López, MR Shaw, P Visconti, W Broadgate, M Bruford, ND Burgess, J Cariño, N Castañeda-Alvarez, J Cavender-Bares, F DeClerck, JM Fernández-Palacios, LA Garibaldi, SL Hill, F Isbell, CK Khoury, CB Krug, J Liu, GM Mace, M Maron, PJK McGowan, HM Pereira, Victoria V Reyes-García, J Rocha, C Rondinini, L Shannon, YJ Shin, P Snelgrove, EM Spehn, B Strassburg, SM Subramanian, JJ Tewksbury, JEM Watson, **AE Zanne**. 2020. Set ambitious goals for biodiversity and sustainability. **Science**. 370: 411-413.

*Lee, M, *Oberle, B, Olivas, W, Young, D, ****Zanne, AE**. 2020. Wood construction more strongly shapes deadwood microbial communities than spatial location over five years of decay. **Environmental Microbiology**. 22: 4702-4717.

Ulyshen, M, Horn, S, Brownie, C, Strickland, M, Wurzbarger, N, **Zanne, AE**. 2020. Comparison of decay rates between native and non-native wood species in invaded forests of the southeastern U.S.: a rapid assessment. **Biological Invasions**. 22: 2619-2623.

Lustenhauer, N, Maynard, DS, Bradford, MA, Lindner, DL, *Oberle, B, **Zanne, AE**, Crowther, TW. 2020. A trait-based understanding of wood decomposition by fungi. **Proceedings of the National Academy of Sciences**. 117: 11551-11558.

(Media coverage: <https://mediarelations.gwu.edu/breaking-down-wood-decomposition-fungi>)

****Zanne, AE**, Powell, J, *Flores-Moreno, H, Kiers, T, Anouk, van 't Padje, Cornwell, W. 2020. Finding fungal ecological strategies: Is recycling an option? **Fungal Ecology**. 46: 100902.

****Zanne, AE**, Abarenkov, K, Afkhami, M, Aguilar-Trigueros, C, Bates, S, Busby, P, Christian, N, Cornwell, W, Crowther, T, *Flores-Moreno, H, Floudas, D, Gazis, R, Hibbett, D, Kennedy, P, Lindner, D, Maynard, D, *Milo, A, Nilsson, R, Powell, J, Schildhauer, M, Schilling, J, Talbot, J, Treseder, K. 2020. Fungal functional ecology: Bringing a trait-based approach to plant-associated fungi. **Biological Reviews**. 95: 409-433

*Oberle, B, *Lee, M, Myers, J, *Osazuwa-Peters, O, Spasojevic, M, Walton, M, Young, D, ****Zanne, A**. 2020. Accurate forest projections require long-term wood decay experiments because plant trait effects change through time. **Global Change Biology**. 26: 864-875.

Kattge, J, Diaz, S, Lavorel, S, +724 authors, **Zanne, AE**. 2020. TRY plant trait database - enhanced coverage and open access. **Global Change Biology**. 26: 119-188.

2019

*Lee, MR, Powell, JR, * Oberle, B, Cornwell, WK, Lyons, M, Rigg, JL, ****Zanne, AE**, 2019. Good neighbors aplenty: fungal endophytes rarely exhibit competitive exclusion patterns across a span of woody habitats. **Ecology**. 100: e02790.

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- **Zanne AE**, Lopez-Gonzalez G, Coomes DA, Ilic J, Jansen S, Lewis SL, Miller RB, Swenson NG, Wiemann MC, Chave J. 2009. Data from: Towards a worldwide wood economics spectrum. Dryad Digital Repository. doi:10.5061/dryad.234 (16412 downloads)

Invited talks or seminars last 5 years

- 2024 How little things have big effects on carbon cycles. **Environmental Science Seminar Series, Natural Resources and Earth Systems Science PhD Program, University of New Hampshire**. Durham, NH, USA.
- How little things have big effects on carbon cycles. **DOE Ngee Arctic Phase 4 All Hands Meeting**. Anchorage, AK, USA.
- Minhas aventuras com cupins e outras histórias. Pós Graduação em Ecologia e Recursos Naturais. **Universidade Federal do Ceará**, Fortaleza, Ceará, Brazil.
- Communication and Collaboration in scientific research. **New Phytologist Next Generation Scientists**. Duke University, Durham, NC, USA.
- Biodiversity in a changing world: Big answers about little and big things. **Understanding Biodiversity in a Changing Planet MIDAS and Institute for Global Change Biology (IGCB) Mini-Symposium**, University of Michigan, Ann Arbor, MI, USA.
- 2023 My adventures with termites and other stories, International Center for Tropical Botany, Institute of Environment, Department of Biological Sciences, **Florida International University**, Miami, FL, USA
- Wood-feeding termites as carbon cyclers: Where in the world are they important contributors? Downed Logs as a Bridge: Connecting Subdisciplines and Geographic Regions with Saproxylic Insects Symposium. **Entomological Society of America Annual Meeting**. National Harbor, MD, USA
- Of termite tales and other stories, Distinguished Seminar Speaker Series, **Max Planck Institute for Biology**, Tübingen, Germany
- Termite sensitivity to temperature affects global wood decay rates, Inaugural

- Lecture, **CEBA Laboratoire of Excellence**, Amazonian biodiversity and ecosystems in a changing world Symposium, Center for the Study of Biodiversity in Amazonia Annual Meeting, Université de Guyane, Cayenne, French Guiana.
- My adventures with termites and other stories. XVI CAEB - Congresso Aberto aos Estudantes de Biologia, Keynote speaker, **University of Campinas**, Campinas, Brazil.
- My adventures with termites and other stories. **Federal University of Piaui**, Teresina, Brazil.
- Of termite tales and other stories. **Botanical Garden of Rio de Janeiro**, Rio de Janeiro, Brazil.
- Of termite tales and other stories. Facultad de Ciencias Naturales, **Universidad del Rosario**, Bogota, Colombia (Virtual).
- Some like it hot: Termite temperature sensitivity drives global wood decay. Annual Savanna Science Meeting. Kruger National Park, South Africa.
- Of termite tales and other stories. Department of Biological Sciences, **University of Cape Town**, Cape Town, South Africa.
- 2022 Termites rule the world and other stories. **University of Talca**, Talca, Chile. November 2022.
- Termites rule the world and other stories. Fireside Chat, **Phototonics Club**, Clubhouse Virtual Meeting.
- Termites rule the world and other stories. Institute of Ecology, **UNAM**, Mexico City, Mexico.
- Termites rule the world and other stories. Institute in Ecosystems and Sustainability, **UNAM**, Morelia, Mexico.
- Termite tales (aka Historias de termitas). IFEVA, **University of Buenos Aires**, Buenos Aires, Argentina.
- Termites rule the world and other stories. Pop-Up Global Symposia about Life & Ecology for You [PUGSLEY], **University of Minnesota**, St. Paul, MN, USA.
- Taking Stock on Global Biodiversity. **The CLEO Institute** Climate Symposium Keynote. Miami, FL, USA.
- 2021 Organic matter decomposition. Environmental constrains and biological optimisations. Ramon Margalef Colloquium. **Institut de Ciències del Mar**. Barcelona, Spain.
- Death and decay: Drivers of wood deconstruction around the world. **Durham University**. Durham, UK.
- 2020 Death and decay: Drivers of wood deconstruction around the world. Adventures in Biology. **NIH**. Washington, DC, USA.

Teaching

- 2024 General Ecology, University of Miami, Miami, FL
- 2023 Experimental Design, University of Miami, Miami, FL
- 2022 Graduate Ecology of Cerrado field course (co-instructor), University of Campinas, Alto Paraiso do Goias, Goias, Brazil
- 2019-21 Discussion group: 1) Above-belowground linkages (UM, GWU Biology, SERC) co

- run with Keryn Gedan and Pat Megonigal, spring 2022, 2) EcoEvoBiogeo fall 2014-spring 2015, fall 2016-spring 2018 (co run with Keryn Gedan 2017-2018 and Mollie Manier spring 2018), 3) Plant ecophysiology co run with Keryn Gedan, fall 2019, 4) Biogeochemistry (GWU Biology, SERC) co run with Keryn Gedan and Pat Megonigal (SERC), spring 2021.
- Graduate Core II: Ecosystem ecology and global change biology, University of Miami, Miami, FL
- Graduate Seminar: Analyses in R, University of Miami, Miami, FL
- 2021 Plant Comparative Structure and Function Laboratory, George Washington University, Washington, D.C
- 2020 Graduate Seminar: Analyses in R, George Washington University, Washington, D.C
- Plant Comparative Structure and Function Lecture, George Washington University, Washington, D.C.
- 2019 Plant Comparative Structure and Function Laboratory, George Washington University, Washington, D.C
- Field Biology, George Washington University, Washington, D.C
- 2014-18 EcoEvoBiogeo graduate discussion group
- 2018 Graduate Seminar: Analyses in R, George Washington University, Washington, D.C
- Plant Comparative Structure and Function Lecture, George Washington University, Washington, D.C.
- 2017 Field Biology, George Washington University, Washington, D.C
- Plant Comparative Structure and Function Lecture, George Washington University, Washington, D.C.
- 2016 Graduate Seminar: Analyses in R, George Washington University, Washington, D.C
- 2015 Plant Comparative Structure and Function Lecture, George Washington University, Washington, D.C.
- 2014 Field Biology, George Washington University, Washington, D.C
- Plant Comparative Structure and Function Lecture, George Washington University, Washington, D.C.
- 2013 Plant Comparative Structure and Function Lecture, George Washington University, Washington, D.C.
- 2012 Field Biology, University of Missouri, St. Louis, spring
- 2010-12 Senior Seminar: Biology in the News, University of Missouri, St. Louis
- 2011 Graduate Seminar: Lost in Space, University of Missouri, St. Louis
- Global Climate Change, University of Missouri, St. Louis
- Field Biology, University of Missouri, St. Louis
- General Ecology, University of Missouri, St. Louis
- 2010 Comparative Structure and Function and Analyses in R, University of Missouri, St. Louis
- 2009 Graduate Seminar: Traits, University of Missouri, St. Louis

- General Ecology, University of Missouri, St. Louis
- 2008 General Ecology, University of Missouri, St. Louis
- 2002 Non-majors Biology and Women's Studies: Sex, Gender, and Mating Systems, A comparison Across Living Organisms, University of Florida

Selected invited or organized workshops & exchanges

- 2021 Convener. Incorporating animals into earth system models, bringing together empiricists and modelers.
- 2020 Co convener. Global wood blocks workshop. New Phytologist workshop. Sydney, Australia.
Co convener. Fungal and root traits workshop. NimBios, Knoxville, TN
Synthesizing the scientific evidence to inform the development of the post-2020 Global Framework on Biodiversity. Earth Commission Meeting Report to the Convention on Biological Diversity. Subsidiary Body on Scientific, Technical and Technological Advice, Convention on Biological Diversity. Davos, Switzerland.
NIMBioS workshop "Creating an integrative framework to interpret and model plant and mycorrhizal fungal traits at the global scale". PI: Stephanie Kivlin, CoPI: Amy Zanne. **\$15,000**
New Phytologist workshop "New insights into global decomposition: Analyses from the global wood blocks project". PI: Habacuc Flores-Moreno, CoPI: Amy Zanne. **15,000 pounds**
- 2019-20 FAPESP-GW Collaborative Research Program for lab exchange. **\$5000**
- 2019 Co-organizer. Symposium. Fungal traits, Ecological Society of America Annual Meeting, Lexington, KY.
- 2015-19 Convener. Working group. Fungal traits. NCEAS, USA
- 2018 Working group, Biotic Attack, NERC, Caixuana, Brazil and Cape Tribulation, QLD, Australia.
- 2013-17 Working group, Macroevolution of Ecosystem Services of Trees. Sesync, USA
- 2017 Working group, Futurephy, The Field Museum, USA
- 2011-15 Co-convener. Working group, Tempo and Mode of Plant Trait Evolution. NESCent. USA.
- 2015 Workshop, TRY Phylogenetics. Synthesis Centre for Biodiversity Sciences, German Centre for Integrative Biodiversity Research (iDIV), Leipzig, Germany.
Workshop, Ecosystem science and trait-based ecology. Institute of Geographic Sciences and Natural Resources Research, CAS, Chinese Academy of Sciences, Beijing, China.
NESCent, Tempo and Mode of Plant Trait Evolution working group. **~\$20,000**
- 2014 Working group. Drought in tropical forests, Daintree Rainforest Observatory, Cape Tribulation, QLD, Australia.
Catalysis meeting, The co-evolution of plants and fire and consequences for the Earth system, NESCent, USA.
- 2013-14 Convener, Data Analysis and Visualization (DAV) Consortium, George Washington University, Washington, DC, USA. December
- 2011-13 NESCent, Tempo and Mode of Plant Trait Evolution working group. PI. **~\$100,000**

- 2013 Workshop, TRY. Synthesis Centre for Biodiversity Sciences, German Centre for Integrative Biodiversity Research (iDIV), Leipzig, Germany.
Workshop, The uses and the users of Flora and Fauna information, Pro-iBiosphere, Berlin, Germany. invited but declined.
- 2012-13 International Research Initiatives Scheme. University of Western Sydney. Australia
- 2010 Working group, Global Biodiversity. iPlant Collaborative
Working group, leaf and wood decomposition. ARC-NZ Research Network for Vegetation Function. Landcare. New Zealand.
- 2009 Working group, iPTOL data assembly. iPlant Collaborative
Workshop, Neotropical secondary forest regeneration. UNAM, Mexico
Working group, hydraulic functional traits. ARC-NZ Research Network for Vegetation Function. Macquarie University.
Working group, Vegetation Function Network Database working bee. International Congress of Ecology, 10th Annual Meeting, Brisbane, QLD, Australia.
- 2008 Grand challenge workshop on “Assembling the tree of life to enable the plant sciences (iPTOL).” iPlant Collaborative, Oracle, AZ Kew Gardens Bentham-Moxon Grant. Kew Gardens, Kew, UK. Collaborator: Steven Jansen.
Kepler Stakeholder Council. First Annual Stakeholders Meeting. Davis, CA
Working group on “Improving the representation of biodiversity in large-scale vegetation modeling: A global plant trait database.” IGBP-QUEST-DIVERSITAS Fast Track Initiative on Plant Functional Types: Refining Plant Functional Classifications for Earth System Modeling (PFT-FTI) and Max Planck Institute for Biogeochemistry, Jena Germany (MPI). Paris, France
Working group on global wood litter. ARC-NZ Research Network for Vegetation Function. Macquarie University. North Ryde, NSW, Australia
- 2007 Co-convener. Hackathon on Comparative Analyses in R. Hosted by NESCent. Durham, NC, USA
Working group on Trait Databases. Hosted by TraitNet. Columbia University, New York City, NY, USA.
Convener. Working groups on 1. wood density databases, 2. future directions of wood anatomy, and 3. eco-evolutionary workflow procedures. Co-hosted by NESCent and ARC-NZ Research Network for Vegetation Function Network. NESCent, Durham, NC, USA.
- 2006 Working group on Plant Functional Traits. Hosted by Center for Tropical Forest Science. Smithsonian Tropical Research Institute, Panama City, Panama.
- 2005 Working group on Plant Vascular Design. ARC-NZ Research Network for Vegetation Function. Macquarie University. North Ryde, NSW, Australia.

Graduate students

- current* Bruna Hornink, co-supervisor, Uni. Campinas, PhD
Yuri Souza, UM, PhD
Abbey Yatsko, UM, PhD
- 2022 Marc Rosenfield, GW, MSc
Becca Clement, co-supervisor, GW, PhD

2021	Andre Moura, co-supervisor, Uni. Campinas, PhD
2020	Tania Fort, co-supervisor, Uni. Bordeaux, PhD
2018	Amy Milo, GW, PhD
2015	Oyomoare Osazuwa-Peters, UMSL, PhD
2013	Elvis Valderrama, UMSL, MSc
2011	Vania Torrez, UMSL, MSc
2011	Gonzalo Rivas, UMSL, PhD
2011	Jon Sweeney, UMSL, PhD

Graduate student committees

prior Abelardo Aguilar (2023-2024) UM; Alma Reyes Gonzalez (2023-2024) UM; Manuel Bernal Escobar (2023-2024) UM; Lina Aragon (2023-2024) UM; Fabio Tarazona (2022-2024) UM; Sofany Montoya (2022-2024) UM; Riley Fortier (2022-present) UM; Alexandra Stiffler (2022-2024) UM; Reid Rumelt (2021-2024) UM; Sagar Bashyal (2022-2023) UM; Deema Abayawardena (2022-2023) UM; Thomas Guzman (2023) Examination committee Uni Bordeaux/INRAE, Jacob Patus (2022) UM, Julliene Monteiro (2020-2021, PhD) Uni. Campinas, Andres Gonzalez (2019-2021) Uni. del Rosario, Colombia, Michell Ahn (2019) GWU, Emily Kottler (2018-2022) GWU, Kathryn Norman (2017-2018) GWU, Sarah Rhodig (2017) GWU, Max Larter (2016) Examination committee Uni. Bordeaux/INRAE, André Mouro (2016-2020) Uni. Campinas, Brazil, Bryan Nguyen (2015-2016, 2020) GWU, David Stern (2014-2017) GWU, Lily Hughes (2014-2016) GWU, Catriona Henry (2014-2020) GWU, Eduardo Castro Nallar (2013-2014) GWU, João Tonini (2013-2017) GWU, Ian McFadden (2013-2016) UMD, Elisha Rubin (2012-2013) GWU, Leticia Gutierrez (2011-2015) UMSL, Matt Medieros (2011-2013) UMSL, Robbie Hart (2011-2012) UMSL, Jeff Ettling (2010-2012) UMSL, Daniel Layton (2010-2013) UMSL, Cynthia Hong-Wa (2008-2012) UMSL, Kirk Barnett (2009-2012) UMSL, Carolina Romero (2010-2011) SLU, Micah Bennett (2009-2010) SLU, Dilys Vela (2009-2011) UMSL, Gonzalo Rivas (2008-2009) UMSL

Post-doctoral fellows

2024-	Paulo Negri Bernardino
2022-	Baptiste Wijas
2018-20	Habacuc Flores Moreno
2016-18	Marissa Lee
2011-15	Brad Oberle

Undergraduate students

2020-22	Michaela Fitzgerald
2020-22	Julia Pope, Sophia Sanchez, Kelsey Bartlett (2020-2022; Shirley Graham Fellowship, Missouri Botanic Garden 2022), Nora Cavanaugh (2020-2022; Harlan Fellowship 2020, 2021),
2019-22	Abbey Yatsko (2019-2021) REU, Rose Cheney (2019-2022; Harlan Fellowship 2020, Undergraduate Research Award 2021), Aldonza Chavez
2017-20	Leona Neftaliem (2017-2020; Honors thesis; Undergraduate Research Award Fellowship and SURE Fellowship 2020; Harlan Fellowship 2019), Justin Hachey,

- Henry Betts (2015-2017; Harlan Fellowship 2016, 2017);
- 2012-15 Abigail Carter; Rachel Milner, U Rochester; Sophie Labelle, GWU, Elizabeth Yablon (Committee member for honors thesis) WashU, Nicole Benjamin (UMSL, Payel Patel UMSL, Emily Wagner, UMSL, Jeremy Martin, UMSL, Kevin Dunham, UMSL, Justin Collins, UMSL, Maranda Evans UMSL
- 2008-10 Shannon Shanafelt, UMSL, Bryan Cordes, UMSL, Mike Boyher, UMSL, Haris Lalic, UMSL, Chris Riggs, UMSL, Sheila Strickland, UMSL

Service to enhance diversity

- 2020 Co mentor with Colleen Iverson for early career researchers: Camille Defriene, Stephanie Kivlin, Adriana Romero Olivares, Esa Abs, Moira Hugh, Jennifer Jones, Amanda Cordeiro, Lee Dietrich. Ecology Underground - live talks from Ecological Society of America with support from *New Phytologist* and DOE. (Virtual with >750 registrants) <https://ecologyunderground.github.io/>
- 2011 Moderator for Women in the Academy: Leveling the Playing Field, sponsored by Sue Shear Institute for Women in Public Life, Gender Studies and the College of Arts and Sciences

Service to the Institution

- 2024- Computational Ad Hoc Committee
- 2024- Postdoctoral Committee
- 2024 Facilitator, Resilience Academy Symposium
- 2023-24 Co-Chair EEB Search Committee
- 2023-24 Lowe Art Museum Advisory Committee
- 2022-24 UGalapagos coordinator, (co-coordinator 2022-23 with Kathleen Seeley)
- 2022-24 Abess Center Advisory Committee
- 2022-24 Faculty mentor, Biology, Oliver Bracko
- 2021-23 Junior Faculty Mentoring Committee, Biology
- 2021-24 Promotion and Tenure Committee, Biology
- 2022-23 Maytag Search Committee
- 2022 Graduate Selection Committee, Abess Center
- 2019-21 Faculty mentor, Biological Sciences, Jimmy Saw
- 2016-21 Faculty mentor, Biological Sciences, Keryn Gedan
- 2014-21 Graduate committee, Biological Sciences
- 2020 Personnel manager for greenhouse manager Rachel Canalichio
- 2019-20 Data Science Faculty Search Committee, Biological Sciences
Dean's Council, CCAS
- 2017-20 Graduate Studies Committee, CCAS
- 2016-19 Faculty mentor, Biological Sciences, Mollie Manier
- 2017-18 Microbiologist Faculty Search Committee Chair, Biological Sciences
Finance Committee, Biological Sciences
- 2017 Cohesion Committee, Biological Sciences

- 2014-15 Big Data Initiative, Search committee
Undergraduate curriculum committee, Biological Sciences
- 2012-13 Computational Biology Institute, Hiring Advisory Committee; CCAS representative
Department of Biology Seminar Committee
Harlan Undergraduate Summer Research Program Awards
- 2012 Harris Center Graduate Awards Committee
- 2011-12 University Undergraduate Research Awards Committee
- 2009-12 Biology Student Awards Committee, Chair
Faculty mentor, Tri Beta and undergraduate biology club
- 2008-12 Harris Center Executive Board
- 2010 Collated faculty accomplishments across the department
- 2008 Junior faculty committee for fall retreat

Service to the Discipline

- 2024 Tenure and promotion review (3)
- 2022- Association for Tropical Biology and Conservation Society Council Person.
- 2021- Ecological Society of America Fellows and Early Career Fellows Selection Subcommittee.
- 2007- Contributor, Angiosperm Phylogeny Website (APWeb) version 2.
- 2008- Data contributor and data end user, TRY: Refining Plant Functional Classifications for Earth System Modeling.
- 2015-19 Convener. Working group. Fungal traits. NCEAS, USA.
- 2016 Graduate student mentor. Association for Tropical Biology and Conservation Annual Meeting. 2016.
- 2015 Coeditor of special issue in Journal of Ecology with Amy Austin. "Whether in Life or Death: Fresh Perspectives on How Plants Effect Biogeochemical Cycling".
- 2015 Graduate student mentor. Ecological Society of America Annual Meeting.
- 2011-15 Co-Organizer with Will Cornwell and Stephen Smith, NESCent working group, Tempo and Mode of Plant trait Evolution.
- 2014 Co-Organizer with Amy Austin. Symposium. Whether in Life or Death: Fresh Perspectives on How Plants Effect Biogeochemical Cycling, Ecological Society of America Annual Meeting.
- 2013 Co-Organizer with Peter Hoeh and Peter Stevens, "Phylogeny meets Ecology: patterns of diversity, community assembly, and niche evolution" Annual Systematics Symposium, Missouri Botanical Garden.
- 2011 Co-Organizer with Bob Ricklefs, St. Louis Behavior, Ecology, Evolution, and Systematics Retreat. (~130 people attended this day long retreat)
- 2011 Co-Organizer with Mick Richardson, "Trees" Annual Systematics Symposium, Missouri Botanical Garden.
- 2010 Instructor for Introduction to Analyses in R Workshop for Washington University Biology.
- 2006-10 Member, CTFS: Plant Functional Traits working group.

Selected Journal & Grant Reviewer

Annals of Botany, American Journal of Botany, Annales Zoologici Fennici, Austral Ecology, Biological Reviews, Biotropica, Conservation Biology, Ecology, Ecology Letters, Evolution, FEMS Microbiology Ecology, Forest Ecology and Management, IAWA Journal, International Journal of Plant Sciences, Journal of Applied Ecology, Journal of Biogeography, Journal of Ecology, Methods in Ecology and Evolution, Mycologia, New Phytologist, Oecologia, Perspectives in Plant Ecology, Evolution and Systematics, Plant and Soil, Plant Cell & Environment, Plos One, Trees: Structure and Function

DOE Site review for NGEET Tropics, NSF Population and Community Ecology and Dimensions of Biodiversity ad hoc reviews, NSF DDIG and Population and Community Ecology panels, LabEx French Government, Serrapilheira Institute Brazil

External Community Engagement

- 2022 Science expert. Fairchild Garden's 'Exploring Environmental Careers' Day. Fairchild Garden. Miami, FL
- Science-art discussion panels: 1. DE-compose: Exploring the intersections between art and science, Lowe Connects Virtual Panel Discussion, Lowe Art Museum, Miami, FL, USA 2. When a Tree Falls by Donna Davis Scenic Rim Story Marker Trails, The Centre Beaudesert, Live at the Centre Scenic Rim, Arts & Culture, Beaudesert, Queensland, Australia
- Termites degrade wood faster as the world warms. Science podcast. Interview with Sarah Crispi. <https://www.science.org/content/podcast/can-wolves-form-close-bonds-humans-and-termites-degrade-wood-faster-world-warms>
- Discussion group: Above-belowground linkages (joint UM, GWU Biology and SERC) co run with Keryn Gedan and Pat Megonigal
- Graduate Ecology of Cerrado field course (co-instructor), University of Campinas, Alto Paraiso do Goias, Goias, Brazil
- 2018 Science Advocacy, with colleagues from California, lobbied Congressional Staffers for continued funding for science
- 2013 ASPB Booth, Easter Egg Roll, White House
- 2011-12 Learning activity developer, Dryad Lab: Walk through the Woods. NESCent. Global wood density and vessel anatomy database learning activities