

JOSEPH W. VELDMAN

Assistant Professor
Department of Ecology and Conservation Biology
Texas A&M University, College Station, Texas 77843-2258 USA

Email: veldman@tamu.edu
Phone: +1 979 862 2652

EDUCATION

- 2010 **Ph.D. Botany, University of Florida, USA**
Advisor: Francis E. Putz
- 2001 **B.S. Biology, Hope College, Holland, Michigan, USA**
Advisor: K. Greg Murray

APPOINTMENTS

- 2017-present **Assistant Professor, Texas A&M University, USA**
Department of Ecology and Conservation Biology (2020-present)
Core Faculty, Ph.D. Program in Ecology and Evolutionary Biology (2018-present)
Department of Ecosystem Science and Management (2017-2019)
- 2015-present **Research Affiliate, Bolivian Institute of Forestry Research, Santa Cruz, Bolivia**
- 2014-2017 **Postdoctoral Associate, Iowa State University, USA**
Advisor: Brent J. Danielson
- 2010-2014 **Postdoctoral Associate, University of Wisconsin–Madison, USA**
Advisors: Ellen I. Damschen; John L. Orrock; Lars A. Brudvig, Michigan State University;
Joan L. Walker, United States Forest Service.

PUBLICATION SUMMARY AND METRICS

Total number of journal articles published or in press: 27

Articles as first author, senior author, or co-lead: 18

Articles since dissertation: 23

Articles at Texas A&M: 10

	<u>Web of Science</u>	<u>Google Scholar</u>
Total Citations:	1,183	1759
Citations of first-author, senior-author, or co-led work:	932	1362
Citations in 2020:	334	418
h-index:	17	20

Career Journal Impact Factor ($n=27$)*

Mean: 10.08 Median: 4.29

Journal Impact Factor at Texas A&M ($n=10$)*

Mean: 15.38 Median: 9.90

*Based on *InCites Journal Citation Reports* (2020) for publications listed below

PEER-REVIEWED PUBLICATIONS

Unless otherwise noted, Veldman listed as first or last author indicates a lead or senior authorship role. Asterisks denote mentored co-authors: *M.S. students, **Ph.D. students, ***Postdoctoral scholars. Members of the Veldman Lab at Texas A&M University are underlined.

- [27] Novak, E.N.*, M. Bertelsen, D. Davis, D.M. Grobert**, K.G. Lyons, J.P. Martina, W.M. McCaw, M. O'Toole, and J.W. Veldman. 2021. Season of prescribed fire determines grassland restoration outcomes after fire exclusion and overgrazing. **Ecosphere**. (*in press*)
- [26] Fleischman, F., S. Basant, A. Chhatre, E.A. Coleman, H.W. Fischer, D. Gupta, B. Güneralp, P. Kashwan, D. Khatri, R. Muscarella, J.S. Powers, V. Ramprasad, P. Rana, C. Rodriguez S., J.W. Veldman. 2020. Pitfalls of tree planting show why we need people-centered natural climate solutions. **BioScience** 70: 947-950.
- [25] Nerlekar, A.N.** , J.W. Veldman. 2020. High diversity and slow recovery of old-growth grasslands. **Proceedings of the National Academy of Sciences USA** 117: 18550-18556.
- [24] Haddad, T.M.** , R.A.G. Viani, M.G.B. Cava, G. Durigan, J.W. Veldman. 2020. Savannas after afforestation: Assessment of herbaceous community responses to wildfire versus native tree planting. 2020. **Biotropica** 52: 1206-1216.
- [23] Fadrique, B.**, J.W. Veldman, J.W. Dalling, L.G. Clark, L. Montti, E. Ruiz-Sanchez, D.C. Rother, F. Ely, W. Farfan-Ríos, P. Gagnon, C.M. Prada, J.C. Camargo García, S. Saha, T.T. Veblen, X. Londoño, K.J. Feeley, C.A. Rockwell. 2020. Guidelines for including bamboos in tropical ecosystem monitoring. 2020. **Biotropica** 52: 427-443.
- [22] Veldman, J.W., J.C. Aleman***, S.T. Alvarado, T.M. Anderson, S. Archibald, W.J. Bond, T.W. Boutton, N. Buchmann, E. Buisson, J.G. Canadell, M.S. Dechoum, M.H. Diaz-Toribio, G. Durigan, J.J. Ewel, G.W. Fernandes, A. Fidelis, F. Fleischman, S.P. Good, D.M. Griffith, J.M. Hermann, W.A. Hoffmann, S. Le Stradic, C.E.R. Lehmann, G. Mahy, A.N. Nerlekar** , J.B. Nippert, R.F. Noss, C.P. Osborne, G.E. Overbeck, C.L. Parr, J.G. Pausas, R.T. Pennington, M.P. Perring, F.E. Putz, J. Ratnam, M. Sankaran, I.B. Schmidt, C.B. Schmitt, F.A.O. Silveira, A.C. Staver, N. Stevens, C. Still, C.A.E. Strömberg, V.M. Temperton, J.M. Varner, N.P. Zaloumis. 2019. Comment on “The global tree restoration potential”. **Science** 366: eaay7976.
- [21] Temperton, V.M, N. Buchmann, E. Buisson, G. Durigan, L. Kazmierczak, M.P. Perring, M. de Sá Dechoum, J.W. Veldman, G.E. Overbeck. 2019. Step back from the forest and step up to the Bonn Challenge: How a broad ecological perspective can promote successful landscape restoration. **Restoration Ecology** 27: 705-719.
- [20] Buisson, E., S.Le Stradic, F.A.O. Silveira, G. Durigan, G.E. Overbeck, A. Fidelis, G.W. Fernandes, W.J. Bond, J.M. Hermann, G. Mahy, S.T. Alvarado, N.P. Zaloumis, J.W. Veldman. 2019 Resilience and restoration of tropical and subtropical grasslands, savannas, and grassy woodlands. **Biological Reviews** 94: 590-609.
- [19] Fargione, J.E, S. Bassett, T. Boucher, S. Bridgham, R.T. Conant, S.C. Cook-Patton, P.W. Ellis, A. Falcucci, J. Forqurean, T. Gopalakrishna, H. Gu, B. Henderson, M.D. Hurteau, K.D. Kroeger, T. Kroeger, T.J. Lark, S.M. Leavitt, G. Lomax, R.I. McDonald, J.P. Megonigal, D.A. Miteva, C. Richardson, J. Sanderman, D. Shoch, S.A. Spawn, J.W. Veldman, C.A. Williams, P. Woodbury, C. Zganjar, M. Baranski, P. Elias, R.A. Houghton, E. Landis, E. McGlynn, S. Ohler, W.H. Schlesinger, J.V.

- Siikamaki, A.E. Sutton-Grier, B.W. Griscom. Natural Climate Solutions for the United States. **Science Advances** 4: eaat1869.
- [18] Griffith, D.M., C.E.R. Lehmann, C.A.E. Strömberg, C.L. Parr, R.T. Pennington, M. Sankaran, J. Ratnam, C.J. Still, R.L. Powell, N.P. Hanan, J.B. Nippert, C.P. Osborne, S. Good, T.M. Anderson, R.M. Holdo, J.W. Veldman, G. Durigan, K.W. Tomlinson, W.A. Hoffmann, S. Archibald, W.J. Bond. 2017. Comment on “The extent of forest in dryland biomes.” **Science** 358: eaao1309.
- [17] Veldman, J.W., F.A.O. Silveira, F.D. Fleischman, N.L. Ascarrunz, G. Durigan. 2017. Grassy biomes: An inconvenient reality for large-scale forest restoration? **American Journal of Botany** 104: 649-651.
- [16] Veldman, J.W. 2016. Clarifying the confusion: old-growth savannahs and tropical ecosystem degradation. **Philosophical Transactions of the Royal Society B** 371: 20150306.
- [15] Fuentes-Ramirez**, A., J.W. Veldman, C. Holzapfel, K.A. Moloney. 2016. Spreaders, igniters and burning shrubs: plant flammability explains novel fire dynamics in grass-invaded deserts. **Ecological Applications** 26: 2311-2322.
- [14] Varner, J.M., J.M. Kane, J.K. Hiers, J.K. Kreye, J.W. Veldman. 2016. Suites of fire-adapted traits of the southeastern USA oaks: multiple strategies for persistence. **Fire Ecology** 12: 48-64.
Varner led manuscript; Veldman contributed to the data analysis and writing.
- [13] Veldman, J.W., G.E. Overbeck, D. Negreiros, G. Mahy, S. Le Stradic, G.W. Fernandes, G. Durigan, E. Buisson, F.E. Putz, W.J. Bond. 2015. Where tree planting and forest expansion are bad for biodiversity and ecosystem services. **BioScience** 65: 1011-1018.
- [12] Veldman, J.W., E. Buisson, G.W. Fernandes, G. Durigan, S. Le Stradic, G. Mahy, D. Negreiros, G.E. Overbeck, R.G. Veldman, N.P. Zaloumis, F.E. Putz, and W.J. Bond. 2015. Toward an old-growth concept for grasslands, savannas, and woodlands. **Frontiers in Ecology and the Environment** 13: 154-162.
- [11] Veldman, J.W., G.E. Overbeck, D. Negreiros, G. Mahy, S. Le Stradic, G.W. Fernandes, G. Durigan, E. Buisson, F.E. Putz, W.J. Bond. 2015. Tyranny of trees in grassy biomes. 2015. **Science** 347: 484-485.
- [10] Mattingly, W.B., J.L. Orrock, C.D. Collins, Brudvig, L.A., E.I. Damschen, J.W. Veldman, and J.L. Walker. 2015. Historical agriculture alters the effects of fire on understory plant beta diversity. **Oecologia**. 177: 507-518.
- [9] Veldman, J.W., L.A. Brudvig, E.I. Damschen, J.L. Orrock, W.B. Mattingly, and J.L. Walker. 2014. Fire frequency, agricultural history, and the multivariate control of pine savanna understory plant diversity. **Journal of Vegetation Science** 25: 1438-1499.
- [8] Brudvig, L.A., J.L. Orrock, E.I. Damschen, C.D. Collins, P.G. Hahn, W.B. Mattingly, J.W. Veldman, and J.L. Walker. 2014. Land-use history and contemporary management inform an ecological reference model for longleaf pine woodland understory plant communities. **PLoS ONE** 9: e86604.
- [7] Veldman, J.W., W.B. Mattingly, and L.A. Brudvig. 2013. Understory plant communities and the functional distinction between savanna trees, forest trees, and pines. **Ecology** 94: 424-434.
- [6] Veldman, J.W. and F.E. Putz. 2011. Grass-dominated vegetation, not species-diverse natural savanna, replaces degraded tropical forests on the southern edge of the Amazon Basin. **Biological Conservation** 144: 1419-1429.

- [5] Garcia, M.G., R.S. Silva, M.A. Carniello, J.W. Veldman, A.A.B. Rossi, L.O. Oliveira. 2011. Molecular evidence of cryptic speciation, historical range expansion, and recent intraspecific hybridization in the Neotropical seasonal forest tree *Cedrela fissilis* (Meliaceae). **Molecular Phylogenetics and Evolution** 61:639-649.
- [4] Veldman, J.W. and F.E. Putz. 2010. Long-distance dispersal of invasive grasses by logging vehicles in a tropical dry forest. **Biotropica** 42: 697-703.
- [3] Veldman, J.W., B. Mostacedo, M. Peña-Claros, and F.E. Putz. 2009. Selective logging and fire as drivers of alien grass invasion in a Bolivian tropical dry forest. **Forest Ecology and Management** 258: 1643-1649.
- [2] Veldman, J.W. 2008. *Guadua paniculata* (Bambusoideae) en la Chiquitania boliviana: ecología del fuego y la oportunidad para un forraje nativo. **Revista Boliviana de Ecología y Conservación Ambiental** 24: 65-74.
- [1] Veldman, J.W., K.G. Murray, A.L. Hull, J.M. Garcia-C., W.S. Mungall, G.B. Rotman, M.P. Plosz, and L.K. McNamara. 2007. Chemical defense and the persistence of pioneer plant seeds in the soil of a tropical cloud forest. **Biotropica** 39: 87-93.

MANUSCRIPTS IN REVIEW

- [28] Fleischman, F., E. Coleman, H. Fischer, P. Kashwan, M. Pfeifer, V. Ramprasad, C. Rodriguez Solorzano, J.W. Veldman. Ecosystem restoration priorities must be informed by people on the margins. **Nature** (*in review*).
- [29] Silveira., F.A.O, C.A. Ordóñez-Parra, L.C. Moura, I.B. Schmidt, A.N. Andersen, W.J. Bond, E. Buisson, G. Durigan, A. Fidelis, R.S. Oliveira, Catherine L. Parr, L. Rowland, J.W. Veldman, R.T. Pennington. Biome Awareness Disparity is BAD for tropical ecosystem conservation and restoration. **Journal of Applied Ecology** (*in review*).

BOOK CHAPTERS

- [1] Noss, R.F. and J.W. Veldman. 2019. Grasslands. In C. Mittermeier (Ed.) *Nature's Solutions to Climate Change* (pp. 139-149). Earth In Focus, Inc.

EXTERNAL COMPETITIVE FUNDING

Total at Texas A&M (2017 to present): **10,850,788 USD with 720,682 USD to Veldman**

2020-2025 **National Science Foundation**, Division of Environmental Biology, Population and Community Ecology Program, Ecosystem Science Program, Sedimentary Geology and Paleobiology Program. *Collaborative Research: The Nature of Fire-Vegetation Relationships in Tropical Savanna-Forest Mosaics*. DEB-1931232. J.W. Veldman (PI) with L.G. Clark (PI), Iowa State University (DEB-1931265).

Total Award: 856,448 USD
656,653 USD to PI Veldman

2019-2024 **United States Department of Agriculture**, Agriculture and Food Research Initiative, National Institute of Food and Agriculture. *Enhancing Livestock Production from Rangelands of the Great Plains*. Sustainable Agricultural Systems Grant 2019-68012-

29819. B.P. Wilcox (PI), with Texas A&M AgriLife Research co-PIs: J. Walker, X.B. Wu, W. Rogers, J.W. Veldman, J. West, D. Tolleson. Sub-awards to: Oklahoma State University, Texas A&M AgriLife Extension, University of Nebraska; Virginia Tech University, USDA-Agricultural Research Service, Texas Transportation Institute, and Texas A&M University.
Total Award: 9,994,340 USD.
64,029 USD to co-PI Veldman

2007-2009 **National Science Foundation**, Division of Environmental Biology, Doctoral Dissertation Improvement Grant. *The Nature of Savannas that Replace Dry Forests in Chiquitania, Bolivia*. DEB-0709995 J.W. Veldman and F.E. Putz. **11,880 USD**.

2007-2009 **Garden Club of America, Award in Tropical Botany**. *The Nature of Savannas that Replace Dry Forests in Chiquitania, Bolivia*. J.W. Veldman. **5,500 USD**.

INTERNAL FUNDING

Total at Texas A&M (2017 to present): **180,000 USD to Veldman**

2020-2022 **Texas A&M Triads for Transformation**. *An Open-Access Open-Source Map of the Savannas of the Americas*. (PI) J.W., Veldman, (co-PI) A.M. Lawing, (co-PI) C.W. Lafon.
30,000 USD.

2017-2018 **Texas A&M College of Agriculture and Life Sciences**, *Request for Differential Tuition Funds: Wildland Fire Teaching Laboratory*. K. Kavanagh and J.W. Veldman (PI).
150,000 USD.

2004 Working Forests in the Tropics Grant for Exploratory Research, University of Florida.
Tropical Dry Forest Replacement by Savannas. J.W. Veldman. **3,400 USD**.

OTHER: NON-COMPETITIVE EXTERNAL CONTRACTS

Total at Texas A&M (2017 to present): **126,740 USD with 23,655 USD to Veldman**

2021-2022 **City of Austin Water Quality Protection Lands**. *Land Management Plan 2022*. U.P. Kreuter (PI), B.P. Wilcox (co-PI), J.W. Veldman (co-PI).
Total Award: 120,00 USD.
16,915 USD to co-PI Veldman

2021 **White Oak Studio Landscape Architecture**. *The Gardens Phase II: Ecological Assessment of the Proposed Savanna Restoration Area*. (PI) J.W., Veldman.
6,740 USD to PI Veldman

OTHER: FOREIGN GRANT FUNDING

Competitive grants on which Veldman is an invited collaborator (co-I) but ineligible for direct funding

Total at Texas A&M (2017 to present): **49,000 USD to foreign collaborators**

2020-2022 **Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq-Brazil)**. *GrassSyn - Biodiversity of Brazilian grasslands and savannas: patterns and drivers, ecosystem services, and strategies for conservation and restoration*. G.W. Overbeck (PI) and Sandra Muller (co-PI), with collaborators (co-I): A. Madhur (Canada), S. Baeza (Uruguay), M. Carlucci (Brazil), M. Dechoum (Brazil), G. Durigan (Brazil), A. Fidelis (Brazil), A. Guido (Uruguay), L. Menezes (Brazil), S. Müller (Brazil), M. Rosenfield (Canada), A.

Sampaio (Brazil), E. Sosinski (Brazil), I. Staude (Germany), V. Temperton (Germany), C.G. Tornquist (Brazil), C. Turchetto (Brazil), J.W. Veldman (United States), E. Vélez-Martin (Brazil), M. Wiesmeier (Germany). **267,186 BRL (49,000 USD)**

INVITED SEMINARS

- 2021 Texas A&M University, Department of Ecology and Conservation Biology (4 May)
2018 Keynote Address, Annual Meeting of the Texas Society for Ecological Restoration (10 November)
2017 Texas A&M University, Ecosystem Science and Management (12 April)
2017 Wayne State University, Department of Biological Sciences (27 March)
2017 University of North Carolina at Greensboro, Department of Biology (8 February)
2017 Iowa State University, Natural Resources Ecology and Management (3 February)
2016 University of North Florida, Department of Biology (14 Nov)
2016 Iowa State University, Dept. Ecology, Evolution and Organismal Biology (27 Oct)
2016 Texas A&M, Ecosystem Science and Management/Applied Biodiversity Science (11 Oct)
2016 Universidad Autónoma Gabriel Rene Moreno, Santa Cruz, Bolivia (31 May).
2015 Kansas State University, Ecology and Evolutionary Biology (5 Nov)
2015 Belmont Forum on Savannas, University Pierre et Marie Curie, Paris, France (18 June)
2014 Iowa State University, Dept. Ecology, Evolution, and Organismal Biology (12 March)
2014 North Central College, Department of Biology (23 January)
2013 University of San Francisco, Department of Biology (13 February)
2012 Michigan State University, Department of Plant Biology (2 October)
2010 Washington University in St. Louis at Savannah River Site, SC (9 June)
2010 University of Florida, Department of Biology (25 March)
2009 Hope College, Department of Biology (23 January)

INVITED CONFERENCE SYMPOSIUM PRESENTATIONS

- Veldman, J.W. 2019. Overcoming obstacles to rainy season fires in tropical savanna-forest mosaics. Symposium: Bridging the divide: understanding grass diversity and tropical grassy biomes across Africa and Madagascar; organized by Vonjison Rakotoarimanana, Caroline Lehmann and Maria Vorontsova. *In: 56th Annual Meeting of the Association for Tropical Biology and Conservation. Antananarivo, Madagascar.*
- Veldman, J.W. 2017. Ideas of antiquity: old-growth savannas and misperceptions of tropical forest degradation. Symposium: Big Ideas/Big Practice - Do Big Ideas Matter in Restoration? Organized by P. Woodworth and J. Jonson. *In: 7th World Conference on Ecological Restoration. Foz do Iguaçu, Brazil.*
- Veldman, J.W., J.C. Licona. 2017. A fire hypothesis for the maintenance of bamboo thickets and forests as alternative ecosystem states. Symposium: Advancing Bamboo Ecology, Systematics, and Conservation in the Neotropics; organized by Belén Fadrique, Cara Rockwell, and J.W. Veldman. *In: 54th Annual Meeting of the Association for Tropical Biology and Conservation. Mérida, Yucatan, Mexico.*
- Veldman, J.W. 2016. Old-growth savannas and tropical ecosystem degradation. Symposium: Tropical Grassy Biomes; organized by Elise Buisson, Caroline Lehmann, and Kate Parr. *In: 53rd Annual Meeting of the Association for Tropical Biology and Conservation. Montpellier, France.*
- Veldman, J.W. 2015. Relevance of the old-growth grassland concept to restoration ecology. Symposium: Afforestation and agricultural conversion of naturally non-forest ecosystems; organized by Joseph Veldman, Geraldo Fernandes, and Rodolfo Dirzo. **Stanford University, USA.** (16 November).

- Veldman, J.W. 2015. Relevance of the old-growth grassland concept to restoration ecology. Symposium: The shared conservation challenges and distinct restoration needs of forest and grassy biomes; organized by Joseph W. Veldman and Giselda Durigan. *In: 6th World Conference on Ecological Restoration. Manchester, United Kingdom.*
- Veldman, J.W., L. A. Brudvig, E.I. Damschen, J.L. Orrock, W.B. Mattingly, and J.L. Walker. 2014. Approaches and constraints to restoring high conservation value longleaf pine plant communities. Symposium: Developing the linkage between ecological restoration and conservation biology; organized by James Hallett. *In: 2nd North America Congress for Conservation Biology. Missoula, Montana, USA.*
- Veldman, J.W., L. A. Brudvig, E.I. Damschen, J.L. Orrock, W.B. Mattingly, and J.L. Walker. 2013. Prescribed fire, land-use history, and connectivity in the restoration of species-diverse, subtropical pine savannas. Symposium: Restoration of tropical and subtropical grassland ecosystems; organized by Elise Buisson (University of Avignon). *In: 5th World Conference on Ecological Restoration. Madison, Wisconsin, USA.*
- Veldman, J.W. 2011. Forest replacement by grass-dominated vegetation in eastern lowland Bolivia. Symposium: Where the forest ends: Ecology and evolution of savanna-forest transitions; organized by William Hoffmann and William Bond. *In: Joint International Meeting of the Association for Tropical Biology and Conservation and the Society for Conservation Biology (Africa Section). Arusha, Tanzania.*
Received award for best oral presentation by an early career scientist

CONTRIBUTED CONFERENCE ORAL PRESENTATIONS

*Asterisks denote mentored co-authors: *M.S. students, **Ph.D. students, ***Postdoctoral scholars.*

- Nerlekar, A.N.** , J.W. Veldman. 2020. Global meta-analysis confirms the high species richness and slow assembly of old-growth grasslands. *In: 105th Annual Meeting of the Ecological Society of America. Salt Lake City, USA*
- Veldman, J.W., L.A. Brudvig, W.B. Mattingly. 2012. Differing effects of savanna trees and forest trees on savanna understory plant diversity. *In: 97th Annual Meeting of the Ecological Society of America. Portland, USA.*
- Veldman, J.W. 2011. Caracterización de la vegetación dominada por gramíneas que reemplaza al bosque en la Chiquitania, Santa Cruz, Bolivia. *In: III Congreso Boliviano de Ecología. Sucre, Bolivia.*
- Veldman, J.W. 2010. Tropical dry forest replacement by savannas on the southern edge of the Amazon Basin. *In: 95th Annual Meeting of the Ecological Society of America. Pittsburgh, USA*
- Veldman, J.W. 2007. Invasión de gramíneas en un bosque seco tropical bajo aprovechamiento forestal. *In: V Congreso Nacional de Biología. Santa Cruz, Bolivia.*

AWARDS AND HONORS

- Keynote Speaker, Annual Meeting of the Texas Society for Ecological Restoration (10 November 2018)
- Luis F. Bacardi Award for Advances in Tropical Conservation, Association for Tropical Biology and Conservation (2011).

TEACHING AT TEXAS A&M

Courses Taught

ESSM 416/626 Fire Ecology and Natural Resource Management; 3 undergraduate credits, 3 graduate credits; Fall Semesters

Existing course redesigned by Veldman to incorporate the latest developments in the fields of fire ecology and wildland fire science to serve students in a broad range of majors related to biological conservation and ecosystem management, including forestry, rangelands, and wildlife.

ESSM 417 (489-500) Prescribed Fire; 3 credits, Spring Semesters

This new course, with a significant hands-on field component, was developed by Veldman to meet the need of the State of Texas—recognized by the former Department of Ecosystem Science and Management, AgriLife Extension, and the Texas A&M Forest Service—to have students trained in the science and use of prescribed fire.

Seminar in Plant Ecology, Conservation, and Evolution (SPECeZ, ESSM 681)

SPECeZ (pronounced “Species”) is a forum started by Veldman for graduate students, postdocs, and faculty to present research and receive constructive feedback. SPECeZ offers an opportunity to improve study designs, analyses, and presentation skills, while broadening participants’ knowledge beyond their subfield. Veldman coordinated the 10-15 person seminar during four semesters (Fall 2018, Spring 2019, Fall 2019, and Spring 2020). It was offered for credit just once (ESSM 681, Spring 2019). As a result, there are no evaluation scores in the table below.

Record of Formal Course Instruction

<u>Semester</u>	<u>Course</u>	<u>Number of Students</u>	<u>Mean Student Evaluations*</u>
2018 Spring	ESSM 417	13	4.85
2018 Fall	ESSM 416	40	4.88
2018 Fall	ESSM 626	5	5.00
2019 Spring	ESSM 417	13	4.92
2019 Fall	ESSM 416	26	4.93
2019 Fall	ESSM 626	7	4.75
2020 Fall	ESSM 416†	39	4.61†
2020 Fall	ESSM 626†	10	4.57†
2021 Spring	ESSM 417	13	n.a.
		166 (total)	4.81‡ (overall mean)

* Texas A&M changed the survey instrument in 2020. Per University guidance, values are the mean responses to the only two five-point questions that included the word *effective*: “I believe this instructor was an effective teacher” (2018-2019) and “The instructor fostered and effective learning environment” (2020).

† Classes delivered simultaneously face-to-face and virtually during pandemic.

‡ For comparison, 4.29 was the departmental mean for all ESSM courses in 2019 and 2020.

CAREER LIST OF TEACHING EXPERIENCE

- 2021 *Instructor:* Prescribed Fire, Texas A&M University (ESSM 417)
2020 *Instructor:* Fire Ecology and Natural Resource Mgmt., Texas A&M University (ESSM 416/626)
2020 *Coordinator:* Seminar in Plant Ecology, Conservation, and Evolution, Texas A&M (until pandemic)

- 2019 *Coordinator*: Seminar in Plant Ecology, Conservation, and Evolution, Texas A&M (Fall)
- 2019 *Instructor*: Fire Ecology and Natural Resource Mgmt., Texas A&M University (ESSM 416/626)
- 2019 *Coordinator*: Seminar in Plant Ecology, Conservation, and Evolution (ESSM 681 Spring)
- 2019 *Instructor*: Prescribed Fire, Texas A&M University (ESSM 489-500)
- 2018 *Coordinator*: Seminar in Plant Ecology, Conservation, and Evolution, Texas A&M University (Fall)
- 2018 *Co-instructor*: Fire Ecology and Natural Resource Mgmt., Texas A&M University (ESSM 416/626)
- 2018 *Instructor*: Prescribed Fire, Texas A&M University (ESSM 489-500)
- 2017 *Guest lecturer*: Fire Ecology and Natural Resource Mgmt., ESSM, Texas A&M University (26 Oct)
- 2017 *Guest lecturer*: Forest Ecology, ESSM, Texas A&M University (Oct 5)
- 2017 *Discussion leader*: Fire Ecology Reading Group, Iowa State University (Spring Term)
- 2016 *Guest lecturer*: Photosynthesis, General Biology, University of North Florida (15 November)
- 2016 *Guest lecturer*: Population Ecology, Iowa State University (23 September)
- 2014 *Guest lecturer*: Climate change and plant communities, North Central College (22 January)
- 2013 *Guest lecturer*: Plant life histories, Plant Ecology, University of Florida (27 February)
- 2013 *Guest lecturer*: Random processes and plant diversity, University of San Francisco (13 February)
- 2012 *Workshop participant*: Teaching and assessing student process skills in the undergraduate classroom: Approaches and tools. ESA Annual Meeting. Organized by A.L. Porzecanski.
- 2010 *Laboratory instructor*: Plant Ecology, University of Florida (PCB 3601C)
- 2009 *Laboratory instructor*: Plant Taxonomy, University of Florida (BOT 2710)
- 2007 *Guest lecturer*: Applied statistics in biology and forestry, Bolivian Institute of Forestry Research
- 2006 *Instructor/Lecturer*: Introductory Botany, University of Florida (BOT 2010)
Responsible for all aspects of the course: syllabus, lectures, labs, exams, grading.
- 2004 *Laboratory instructor*: Plant Ecology, University of Florida (PCB 3601C)
- 2003 *Laboratory instructor*: Introductory Botany, University of Florida (BOT 2010)

STUDENT ADVISING AT TEXAS A&M

Chaired Graduate Committees

Completed:

Erin N. Novak, M.S. Ecosystem Science and Management. (2018-2020)
Graduate Merit Fellowship (Texas A&M), Sid-Kyle Memorial Fellowship (ESSM)
Thesis: *Season of prescribed fire determines grassland restoration outcomes after fire exclusion and overgrazing*

Current:

R. Peter Dorn, Ph.D. student, Ecology and Evolutionary Biology (2020-present)
Graduate Merit Fellowship (Texas A&M); Co-advised by Michelle Lawing.
Ashish N. Nerlekar, Ph.D. candidate, Ecology and Conservation Biology (2018-present)
Graduate Excellence Fellowship (Texas A&M); McMillan-Ward Fellowship (ESSM).

Graduate Committee Member at Texas A&M University

Completed:

Taylor Siskin, M.S. Geography (2018-2020); Chair: C. Lafon
Thesis: *A burnt landscape: forest composition in Rabun County Georgia, 1820 C.E.*

Current:

Chlöe Fackler, Ph.D. student, Anthropology (2020-present); Co-Chairs: H. Thakar, A. Thoms.
Kayla Driver, M.S. student, Ecology and Conservation Biology (2020-present); Chair: W. Rogers.
Vitaly Vogelman, M.S. student, Ecology and Conservation Biology (2020-present); Chair: W. Rogers.

N. Lee May, Ph.D. student, Ecology and Conservation Biology (2019-present); Chair: U. Kreuter.
Moeka Ono, Ph.D. student, Ecology and Conservation Biology (2019-present); Chair: A. Noormets.
Jacqueline Lara, M.S. student, Ecology and Conservation (2018-present); Chair: W. Rogers.

External Member on Committees at Other Universities

Current:

Elizabeth McMurchie, Ph.D. student, Ecology and Evolutionary Biology, Iowa State University (2020-present); Chair: Lynn G. Clark.

Devin Grobert, Ph.D. student, Integrative Biology, University of Texas at Austin (2019-present); Chair: Caroline E. Farrior.

Traci Foulkes, M.S. student, Biology, Texas State University (2020-present); Chair: Jason P. Martina.

OTHER MENTORSHIP AT TEXAS A&M

Research Trainees and Directed Studies

2018-present Ignacio Kushner, Undergraduate Researcher, Universidad Autónoma Gabriel René Moreno, Santa Cruz de la Sierra, Bolivia
2019, 2021 Emma Dohnalik, Undergraduate Researcher, B.Sc., Wildlife and Fisheries Management
2019, 2021 Grace Vielleux, Undergraduate Researcher, B.Sc., Wildlife and Fisheries Management
2019 Julie C. Aleman, Postdoctoral Associate
Currently: Research Scientist and Lecturer, University of Montreal
2018-2019 Thais Mazzafera Haddad, Visiting Ph.D. Student, University of São Paulo, Brazil
2018 Stetson Dierlam, Undergraduate Directed Studies in Prescribed Fire, B.Sc., Forestry

Prescribed Fire Crew Members—*Texas A&M undergraduate students given extra responsibility and guidance while conducting burns with Veldman at the Ecology and Natural Resources Teaching Area.*

2021 Virginia Deden, Sarah Beall, Jason Shumaker
2020 Benjamin O'connor, Brett Barta
2019 Elijah Klapotek, Chris Ferguson, Alexander Bregnezer, Andrew Clapp, Taylor Pampinella
2018 Joseph Dao, Austin Kelly, Stetson Dierlam, Chris Ferguson

SERVICE TO FIELD

Editorial Board:

Perspectives in Plant Ecology, Evolution and Systematics (2017-present)

Journal Reviewer for:

Acta Ecologica; Applied Vegetation Science; Biological Conservation; Biological Invasions; BioScience; Biotropica; Botany; Conservation Biology; Ecología en Bolivia; Ecological Applications; Ecosphere; Forest Ecology and Management; Global Change Biology; Global Ecology and Biogeography; Journal of Applied Ecology; Journal of Ecology, Journal of Arid Environments; New Forests, New Phytologist; Oecologia; Oikos; Perspectives in Plant Ecology, Evolution, and Systematics; Philosophical Transactions of the Royal Society B; Plant and Soil; Plant Ecology; PLoS ONE; Proceedings of the Royal Society B, Remote Sensing; Restoration Ecology; Revista Boliviana de Ecología y Conservación Ambiental; Revista Colombia Forestal; Teaching Issues and Experiments in Ecology.

Ad-hoc Proposal Reviewer for:

National Science Foundation - Division of Environmental Biology (2015, 2021)

Professional Society Memberships:

Association for Tropical Biology and Conservation

Ecological Society of America

Society for Ecological Restoration

SERVICE TO DEPARTMENT

- 2019-present Member, Oversight Committee for the Ecology and Natural Resource Teaching Area
- 2019-2020 Search Chair, Manager of the Ecology and Natural Resource Teaching Area
- 2018-2020 Coordinator, Seminar in Plant Ecology, Conservation, and Evolution (SPECeZ)
- 2018-2019 Member, Graduate Committee, Ecosystem Science and Management (2018-2019)

ENVIRONMENTAL POLICY AND SCIENTIFIC OUTREACH

- 2021 *Media interview:* Julia Rosen, independent science journalist (27 July)
- 2021 *Public Outreach Interview (Spanish):* Sara Cuevas, Communication Director, Instituto Boliviano de Investigación Forestal, Santa Cruz, Bolivia (9 June)
- 2021 *Media interview:* Carolyn Grambling, *Science News* (28 April)
- 2021 *Media interview:* Julia Rosen, independent science journalist (7 January)
- 2020 *Teleconference:* Melissa Ho and colleagues, World Wildlife Fund (8 December)
- 2020 *Media interview:* Alexandre Touchette, Radio Canada (6 November)
- 2020 *Invited webinar:* Global Grassland and Savanna Dialogue, World Wildlife Fund (1 September)
- 2020 *Media interview:* Aisling Irwin, *SciDiv.Net* (11 May)
- 2020 *Media interview:* Jocelyn Timperley, *BBC Science Focus* (31 January)
- 2020 *Media interview:* Michael Igoe, *Devex* (24 January)
- 2019 *Media interview:* Giles Whittell, *Tortoise Media* (27 December)
- 2019 *Media interview:* Susan Milius, *Science News* (8 November)
- 2019 *Media interview:* Spencer Belyea, *The Battalion* (5 November)
- 2019 *Media interview:* Justine Calma, Vox Media – *The Verge* (24 October)
- 2019 *Media interview:* Sven Titz, *Neue Zürcher Zeitung* (21 October)
- 2019 *Media interview:* Jaan-Juhan Oidermaa, Estonia Public Broadcasting (21 October)
- 2019 *Public Presentation:* Assessing the Potential of Prescribed Fire to Restore Central Texas Grasslands. E.N. Novak and J.W. Veldman. Lady Bird Johnson Wildflower Center (20 February).
- 2018 *Research Collaboration Meeting:* Ladybird Johnson Wildflower Center (14 December)
- 2018 *Media interview:* Mark Tutton, Senior Producer, *CNN International* (29 November)
- 2018 *Teleconference:* Texas Grasslands, S. Najera, C. Reemts, The Nature Conservancy (22 August)
- 2018 *Research Collaboration Meeting:* Ladybird Johnson Wildflower Center (15 August)
- 2018 *Research Collaboration Meeting:* Grassland conservation lands, City of Austin (14 August)
- 2018 *Teleconference:* Pat Comer, Chief Ecologist, NatureServe (20 April)
- 2017 *Teleconference:* Peter Ellis, Global Climate Team, The Nature Conservancy (7 December)
- 2017 *Teleconference:* Grasslands Restoration Carbon Analysis; The Nature Conservancy (24 January)
- 2016 *External reviewer:* Policy brief on the conservation of the Brazilian Cerrado, Union of Concerned Scientists.

- 2016 *Invited workshop participant*: Natural Climate Solutions – United States Analysis, The Nature Conservancy, Washington, D.C. (8-9 June)
- 2016 *Teleconference*: Global Climate Team, The Nature Conservancy (14 April)
- 2016 *Teleconference*: Forest and landscape restoration, The World Resource Institute and International Union for Conservation of Nature (8 February)
- 2015 Osborne, C., J.W. Veldman, G. F. Fernandes, R. Dirzo. Grassy biome conservation will protect biodiversity, human livelihoods, and underground carbon. *In*: Biodiversity and ecosystem restoration: meeting the climate challenge, Rio Conventions Pavilion, United Nations Framework Convention on Climate Change, Conference of Parties 21. Paris, France.
- 2015 *Organized public symposium and workshop*: Afforestation and agricultural conversion of naturally non-forest ecosystems. Co-organized with Geraldo Fernandes and Rodolfo Dirzo. Stanford University, Stanford, California, USA. (16-17 November).
- 2014 *Invited workshop participant*: Ecology and conservation of longleaf groundcover communities. Organized by Paul Gagnon, Kyle Harms, and Jonathan Myers. Mobile, Alabama (21 October).

SELECT MEDIA COVERAGE AND PUBLISHED INTERVIEWS

- Why planting tons of trees isn't enough to solve climate change, *Science News*, 8 July 2021, Carolyn Grambling,
- Protecting savannas rather than reforestation: Alexandre Touchett explains. *Les Années Lumières*, Radio Canada, 9 November 2020 (broadcast in French)
- Planting 1 trillion trees might not actually be a good idea, *The Verge*, 31 January 2020, by Justine Calma
- How tree planting became a flashpoint in the climate debate, *Devex*, 29 January 2020, by Michael Igoe
- 5 things to know about fighting climate change by planting trees, *Science News*, 17 November 2019, by Susan Milius
- Planting trees to take on climate change isn't as easy as YouTubers might think, *The Verge*, 25 October 2019, by Justine Calma
- Trying to Plant a Trillion Trees Won't Solve Anything, *Wired*, 25 October 2019, by Adam Rogers.
- The unsung heroes of climate change, *BBC Science Focus*, 3 February 2016, by Jheni Osman
- Keep off the grass, *The Scientist*, 1 February 2016, by Tracy Vence
- Veldfires maybe not a complete villain, *Die Pos*, 20 April 2015, by Marlene Vermaak
- Military bases provide unlikely refuge for South's longleaf pine, *Yale Environment 360*, 10 November 2011, by Bruce Dorminey