

KRISTINA J. ANDERSON-TEIXEIRA

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SMITHSONIAN INSTITUTION

Ecologist | Leader of ForestGEO Ecosystems & Climate Program

EDUCATION

Ph.D. Biology (with distinction); University of New Mexico. (Aug. 2002-Jan. 2007).

Dissertation: *Rates of change in ecosystem and community properties during succession*

Committee: James H. Brown (chair), Scott L. Collins, Bruce T. Milne, Peter M. Vitousek

B.S. Biology (H) *cum laude*; Wheaton College, Wheaton, IL. (Aug. 1998-May 2002).

Minor: Chemistry

PROFESSIONAL EXPERIENCE

Ecologist, Leader of ForestGEO Ecosystems & Climate Program, Smithsonian Conservation Biology Institute & Smithsonian Tropical Research Institute (Sept. 2012-present)

Affiliate Faculty, Smithsonian Mason School of Conservation at George Mason University (May 2017-present).

Senior Research Scientist, Global Change Solutions, LLC. (www.globalchangesolutionsllc.com) (August 2010-Sept. 2012)

Postdoctoral Research Associate, Energy Biosciences Institute, University of Illinois at Urbana-Champaign. Sponsor: Evan H. DeLucia (Feb. 2008- Sept. 2012)

Postdoctoral Research Associate, Biology, University of New Mexico. Sponsor: Marcy E. Litvak (Feb. 2007-Jan. 2008)

Research/ Teaching Assistant, University of New Mexico. (Aug. 2002 – Jan. 2007)

Biological Field Technician, USFS (GS-05), Humboldt-Toiyabe National Forest (Summer 2002)

Editorial Assistant, Dr. Fred Van Dyke, Wheaton College (Fall 2001). (Textbook: Van Dyke, F. 2002. *Conservation Biology: Foundations, Concepts, Applications*. WCB/ McGraw Hill Publishers, Dubuque, Iowa.)

PUBLICATIONS

* indicates mentee

Journal Publications

In press

Piponiot, C.*, **K. J. Anderson-Teixeira**, S. J. Davies, D. Allen, N. A. Bourg, D. F. R. P. Burslem, D. Cárdenas, C.-H. Chang-Yang, G. Chuyong, S. Cordell, H. S. Dattaraja, Á. Duque, S. Ediriweera, C. Ewango, Z. Ezedin, J. Filip, C. P. Giardina, R. Howe, C.-F. Hsieh, S. P. Hubbell, F. M. Inman-Narahari, A. Itoh, D. Janík, D. Kenfack, K. Král, J. A. Lutz, J.-R. Makana, S. M. McMahon, W. McShea, X. Mi, M. Bt. Mohamad, V. Novotný, M. J. O'Brien, R. Ostertag, G. Parker, R. Pérez, H. Ren, G. Reynolds, M. D. Md Sabri, L. Sack, A. Shringi, S.-H. Su, R. Sukumar, I.-F. Sun, H. S. Suresh, D. W. Thomas, J. Thompson, M. Uriarte, J. Vandermeer, Y. Wang, I. M. Ware, G. D. Weiblen, T. J. S.

- Whitfeld, A. Wolf, T. L. Yao, M. Yu, Z. Yuan, J. K. Zimmerman, D. Zuleta, and H. C. Muller-Landau. 2022. Distribution of biomass dynamics in relation to tree size in forests across the world. *New Phytologist* n/a. <https://doi.org/10.1111/nph.17995>
- Šamonil, P., P. Daněk, J. A. Lutz, **K. J. Anderson-Teixeira**, J. Jaroš, J. D. Phillips, A. Rousová, D. Adam, A. J. Larson, J. Kašpar, D. Janik, I. Vašíčková, E. Gonzalez-Akre*, and M. Egli. 2022. Tree mortality may drive landscape formation: comparative study from ten temperate forests. *Ecosystems*. <https://doi.org/10.1007/s10021-022-00755-8>
- 2022**
- Anderson-Teixeira, Kristina J.**, Herrmann, Valentine*, Rollinson, Christine R., Gonzalez, Bianca*, Gonzalez-Akre, Erika B.*, Pederson, Neil, Alexander, M. Ross, Allen, Craig D., Alfaro-Sanchez, Raquel, Awada, Tala, Baltzer, Jennifer L., Baker, Patrick J., Birch, Joseph D., Bunyavejchewin, Sarayudh, Cherubini, Paolo, Davies, Stuart J., Dow, Cameron*, Helcoski, Ryan,* Kaspar, Jakub, Lutz, James A., Margolis, Ellis Q., Maxwell, Justin T., McMahon, Sean M., Pioniot, Camille*, Russo, Sabrina E., et al. 2022. Joint effects of climate, tree size, and year on annual tree growth derived from tree-ring records of ten globally distributed forests. *Global Change Biology*, 28(1): 245-266. <https://doi.org/10.1111/gcb.15934>
- Anderson-Teixeira, Kristina J.** and Belair, Ethan (2022). Effective forest-based climate change mitigation requires our best science. *Global Change Biology* 28(4):1200-1203, <https://doi.org/10.1111/gcb.16008>
- Cinoğlu, D., H. E. Epstein, A. J. Tepley*, **K. J. Anderson-Teixeira**, J. R. Thompson, and S. S. Perakis. 2021. Climatic Aridity Shapes Post-Fire Interactions between *Ceanothus* spp. and Douglas-Fir (*Pseudotsuga menziesii*) across the Klamath Mountains. *Forests* 12:1567. <https://doi.org/10.3390/f12111567>
- Gonzalez-Akre*, E., C. Pioniot*, M. Lepore, V. Herrmann*, J. A. Lutz, J. L. Baltzer, C. Dick, G. S. Gilbert, F. He, M. Heym, A. I. Huerta, P. Jansen, D. J. Johnson, N. Knapp, K. Kral, D. Lin, Y. Malhi, S. McMahon, J. A. Myers, D. Orwig, D. I. Rodríguez-Hernández, S. Russo, J. Shue, X. Wang, A. Wolf, T. Yang, S. J. Davies, and **K. J. Anderson-Teixeira** (2022). allodb: An R package for biomass estimation at globally distributed extratropical forest plots. *Methods in Ecology and Evolution* 13(2):330-338. <https://doi.org/10.1111/2041-210X.13756>
- Needham, J. F., D. J. Johnson, **K. J. Anderson-Teixeira**, N. Bourg, S. Bunyavejchewin, N. Butt, M. Cao, D. Cárdenas, C. Chang-Yang, Y. Chen, G. Chuyong, H. S. Dattaraja, S. J. Davies, A. Duque, C. E. N. Ewango, E. S. Fernando, R. Fisher, C. D. Fletcher, R. Foster, Z. Hao, T. Hart, C. Hsieh, S. P. Hubbell, A. Itoh, D. Kenfack, C. D. Koven, A. J. Larson, J. A. Lutz, W. McShea, J. Makana, Y. Malhi, T. Marthens, M. Bt. Mohamad, M. D. Morecroft, N. Norden, G. Parker, A. Shringi, R. Sukumar, H. S. Suresh, I. Sun, S. Tan, D. W. Thomas, J. Thompson, M. Uriarte, R. Valencia, T. L. Yao, S. L. Yap, Z. Yuan, H. Yuehua, J. K. Zimmerman, D. Zuleta, and S. M. McMahon. 2022. Demographic composition, not demographic diversity, predicts biomass and turnover across temperate and tropical forests. *Global Change Biology* 28(9): 2895-2909. <https://doi.org/10.1111/gcb.16100>
- Rozendaal, D. M. A., D. R. Suarez, V. D. Sy, V. Avitabile, S. Carter, C. Y. A. Yao, E. Alvarez-Davila, **K. Anderson-Teixeira**, A. Araujo-Murakami, L. Arroyo, B. Barca, T. R. Baker, L. Birigazzi, F. Bongers, A. Branthomme, R. J. W. Brienen, J. M. B. Carreiras, R. C. Gatti, S. C. Cook-Patton, M. Decuyper, B. DeVries, A. B. Espejo, T. R. Feldpausch, J. Fox, J. G. P. Gamarra, B. W. Griscom, N. Harris, B. Hérault, E. N. H. Coronado, I. Jonckheere, E. Konan, S. M. Leavitt, S. L. Lewis, J. A. Lindsell, J. K. N'Dja, A. E. N'Guessan, B. Marimon, E. T. A. Mitchard, A. Monteagudo, A. Morel, A. Pekkarinen, O. L. Phillips, L. Poorter, L. Qie, E. Rutishauser, C. M. Ryan, M. Santoro, D. S. Silayo, P. Sist, J. W. F. Slik, B. Sonké, M. J. P. Sullivan, G. V. Laurin, E. Vilanova, M. M. H. Wang*, E. Zahabu, and M. Herold. 2022. Aboveground forest biomass

varies across continents, ecological zones and successional stages: refined IPCC default values for tropical and subtropical forests. *Environmental Research Letters* 17:014047.

<https://doi.org/10.1088/1748-9326/ac45b3>

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Anderson-Teixeira, K., Herrmann, V.*, Banbury Morgan, R.*, Bond-Lamberty, B. P., Cook-Patton, S. C., Ferson, A. E.*, Muller-Landau, H. C., & Wang, M. M.* H.(2021). Carbon cycling in mature and regrowth forests globally. *Environmental Research Letters*, 16 053009.

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Chitra-Tarak, R., C. Xu, S. Aguilar, **K. J. Anderson-Teixeira**, J. Chambers, M. Detto, B. Faybishenko, R. A. Fisher, R. G. Knox, C. D. Koven, L. M. Kueppers, N. Kunert*, S. J. Kupers, N. G. McDowell, B. D. Newman, S. R. Paton, R. Pérez, L. Ruiz, L. Sack, J. M. Warren, B. T. Wolfe, C. Wright, S. J. Wright, J. Zailaa*, and S. M. McMahon. 2021. Hydraulically-vulnerable trees survive on deep-water access during droughts in a tropical forest. *New Phytologist* 231:1798–1813.

Davies, S. J., I. Abiem, K. Abu Salim, S. Aguilar, D. Allen, A. Alonso, **K. Anderson-Teixeira**, A. Andrade, G. Arellano, P. S. Ashton, P. J. Baker, M. E. Baker, J. L. Baltzer, Y. Basset, P. Bissengou, S. Bohlman, N. A. Bourg, W. Y. Brockelman, S. Bunyavejchewin, D. F. R. P. Burslem, M. Cao, D. Cárdenas, L.-W. Chang, C.-H. Chang-Yang, K.-J. Chao, W.-C. Chao, H. Chapman, Y.-Y. Chen, R. A. Chisholm, C. Chu, G. Chuyong, K. Clay, L. S. Comita, R. Condit, S. Cordell, H. S. Dattaraja, A. A. de Oliveira, J. den Ouden, M. Detto, C. Dick, X. Du, Á. Duque, S. Ediriweera, E. C. Ellis, N. L. E. Obiang, S. Esufali, C. E. N. Ewango, E. S. Fernando, J. Filip, G. A. Fischer, R. Foster, T. Giambelluca, C. Giardina, G. S. Gilbert, E. Gonzalez-Akre*, I. A. U. N. Gunatilleke, C. V. S. Gunatilleke, Z. Hao, B. C. H. Hau, F. He, H. Ni, R. W. Howe, S. P. Hubbell, A. Huth, F. Inman-Narahari, A. Itoh, D. Janík, P. A. Jansen, M. Jiang, D. J. Johnson, F. A. Jones, M. Kanzaki, D. Kenfack, S. Kiratiprayoon, K. Král, L. Krizel, S. Lao, A. J. Larson, Y. Li, X. Li, C. M. Litton, Y. Liu, S. Liu, S. K. Y. Lum, M. S. Luskin, J. A. Lutz, H. T. Luu, K. Ma, J.-R. Makana, Y. Malhi, A. Martin, C. McCarthy, S. M. McMahon, W. J. McShea, H. Memiaghe, X. Mi, D. Mitre, M. Mohamad, L. Monks, H. C. Muller-Landau, P. M. Musili, J. A. Myers, A. Nathalang, K. M. Ngo, N. Norden, V. Novotny, M. J. O'Brien, D. Orwig, R. Ostertag, K. Papathanassiou, G. G. Parker, R. Pérez, I. Perfecto, R. P. Phillips, N. Pongpattananurak, H. Pretzsch, H. Ren, G. Reynolds, L. J. Rodriguez, S. E. Russo, L. Sack, W. Sang, J. Shue, A. Singh, G.-Z. M. Song, R. Sukumar, I.-F. Sun, H. S. Suresh, N. G. Swenson, S. Tan, S. C. Thomas, D. Thomas, J. Thompson, B. L. Turner, A. Uowolo, M. Uriarte, R. Valencia, J. Vandermeer, A. Vicentini, M. Visser, T. Vrska, X. Wang, X. Wang, G. D. Weiblen, T. J. S. Whitfeld, A. Wolf, S. J. Wright, H. Xu, T. L. Yao, S. L. Yap, W. Ye, M. Yu, M. Zhang, D. Zhu, L. Zhu, J. K. Zimmerman, and D. Zuleta. 2021. ForestGEO: Understanding forest diversity and dynamics through a global observatory network. *Biological Conservation* 253:108907.

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- Kunert, N.*, J. Zailaa*, V. Herrmann*, H. C. Muller-Landau, S. J. Wright, R. Pérez, S. M. McMahon, R. C. Condit, S. P. Hubbell, L. Sack, S. J. Davies, and **K. J. Anderson-Teixeira**. 2021. Leaf turgor loss point shapes local and regional distributions of evergreen but not deciduous tropical trees. *New Phytologist* 230(2): 485-496. <https://doi.org/10.1111/nph.17187>
- McGregor, I. R.*, R. Helcoski*, N. Kunert*, A. J. Tepley*, E. B. Gonzalez-Akre*, V. Herrmann*, J. Zailaa*, A. E. L. Stovall*, N. A. Bourg, W. J. McShea, N. Pederson, L. Sack, and **K. J. Anderson-Teixeira**. 2021. [Tree height and leaf drought tolerance traits shape growth responses across droughts in a temperate broadleaf forest](https://doi.org/10.1111/nph.16996). *New Phytologist* 231(2):601-616. DOI: 10.1111/nph.16996
- Muller-Landau, H. C., K. C. Cushman, E. E. Arroyo, I. Martinez Cano, **K. J. Anderson-Teixeira**, and B. Backiel. 2021. Patterns and mechanisms of spatial variation in tropical forest productivity, woody residence time, and biomass. *New Phytologist* 229(6): 3065-3087. <https://doi.org/10.1111/nph.17084>
- Poyatos, Rafael, Granda, Victor, Flo, Victor, Adams, Mark A., Adorjan, Balazs, Aguade, David, Aidar, Marcos P. M., Allen, Scott, Susana Alvarado-Barrientos, M., **Anderson-Teixeira, Kristina J.**, Aparecido, Luiza Maria, Arain, M. Altaf, Aranda, Ismael, Asbjornsen, Heidi, Baxter, Robert, Beamesderfer, Eric, Berry, Z. Carter, Berveiller, Daniel, Blakely, Bethany, Boggs, Johnny, Bohrer, Gil, Bolstad, Paul, V., Bonal, Damien, Bracho, Rosvel, Brito, Patricia, ... Herrmann, Valentine*, et al. 2021. Global transpiration data from sap flow measurements: the SAPFLUXNET database. *Earth System Science Data*, 13(6): 2607-2649. <https://doi.org/10.5194/essd-13-2607-2021>
- Sedio, B. E., M. J. Spasojevic, J. Myers, S. J. Wright, M. D. Person, H. Chandrasekaran, J. H. Dwenger, M. L. Prechi, C. A. López, D. N. Allen, **K. J. Anderson-Teixeira**, J. L. Baltzer, N. A. Bourg, B. T. Castillo, N. Day, E. Dewald-Wang, C. W. Dick, T. Y. James, J. Kueneman, J. Lamanna, J. A. Lutz, I. McGregor*, S. M. McMahon, G. G. Parker, J. D. Parker, and J. Vandermeer. 2021. Chemical similarity of co-occurring trees decreases with precipitation and temperature in North American forests. *Frontiers in Ecology and Evolution* 9. doi: [10.3389/fevo.2021.679638](https://doi.org/10.3389/fevo.2021.679638)
- Seifert, Carlo L.*, Jorge, Leonardo R., Volf, Martin*, Wagner, David L., Lamarre, Greg* P. A., Miller, Scott E., Gonzalez-Akre, Erika*, **Anderson-Teixeira, Kristina J.** and Novotny, Vojtech. 2021. Seasonality affects specialisation of a temperate forest herbivore community. *Oikos*, <https://doi.org/10.1111/oik.08265>
- Wiegand, T., X. Wang, **K. J. Anderson-Teixeira**, N. A. Bourg, M. Cao, X. Ci, S. J. Davies, Z. Hao, R. W. Howe, W. J. Kress, J. Lian, J. Li, L. Lin, Y. Lin, K. Ma, W. McShea, X. Mi, S.-H. Su, I.-F. Sun, A. Wolf, W. Ye, and A. Huth. 2021. [Consequences of spatial patterns for coexistence in species-rich plant communities](https://doi.org/10.1038/s41559-021-01440-0). *Nature Ecology & Evolution*. doi: 10.1038/s41559-021-01440-0.
- Zhong, Y., C. Chu, J. A. Myers, G. S. Gilbert, J. A. Lutz, J. Stillhard, K. Zhu, J. Thompson, J. L. Baltzer, F. He, J. A. LaManna, S. J. Davies, **K. J. Anderson-Teixeira**, D. F. R. P. Burslem, A. Alonso, K.-J. Chao, X. Wang, L. Gao, D. A. Orwig, X. Yin, X. Sui, Z. Su, I. Abiem, P. Bissengou, N. Bourg, N. Butt, M. Cao, C.-H. Chang-Yang, W.-C. Chao, H. Chapman, Y.-Y. Chen, D. A. Coomes, S. Cordell, A. A. de Oliveira, H. Du, S. Fang, C. P. Giardina, Z. Hao, A. Hector, S. P. Hubbell, D. Janík, P. A. Jansen, M. Jiang, G. Jin, D. Kenfack, K. Král, A. J. Larson, B. Li, X. Li, Y. Li, J. Lian, L. Lin, F. Liu, Y. Liu, Y. Liu, F. Luan, Y. Luo, K. Ma, Y.

Malhi, S. M. McMahon, W. McShea, H. Memiaghe, X. Mi, M. Morecroft, V. Novotny, M. J. O'Brien, J. den Ouden, G. G. Parker, X. Qiao, H. Ren, G. Reynolds, P. Samonil, W. Sang, G. Shen, Z. Shen, G.-Z. M. Song, I.-F. Sun, H. Tang, S. Tian, A. L. Uowolo, M. Uriarte, B. Wang, X. Wang, Y. Wang, G. D. Weiblen, Z. Wu, N. Xi, W. Xiang, H. Xu, K. Xu, W. Ye, M. Yu, F. Zeng, M. Zhang, Y. Zhang, L. Zhu, and J. K. Zimmerman. 2021. [Arbuscular mycorrhizal trees influence the latitudinal beta-diversity gradient of tree communities in forests worldwide.](#)

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2020

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Fung, T., R. A. Chisholm, **K. Anderson-Teixeira**, N. Bourg, W. Y. Brockelman, S. Bunyavejchewin, C. Chang-Yang, R. Chitra-Tarak, G. Chuyong, R. Condit, H. S. Dattaraja, S. J. Davies, C. E. N. Ewango, G. Fewless, C. Fletcher, C. V. S. Gunatilleke, I. A. U. N. Gunatilleke, Z. Hao, J. A. Hogan, R. Howe, C. Hsieh, D. Kenfack, Y. Lin, K. Ma, J. Makana, S. McMahon, W. J. McShea, X. Mi, A. Nathalang, P. S. Ong, G. Parker, E. Rau, J. Shue, S. Su, R. Sukumar, I. Sun, H. S. Suresh, S. Tan, D. Thomas, J. Thompson, R. Valencia, M. I. Vallejo, X. Wang, Y. Wang, P. Wijekoon, A. Wolf, S. Yap, and J. Zimmerman. 2020. Temporal population variability in local forest communities has mixed effects on tree species richness across a latitudinal gradient. *Ecology Letters* 23(1): 160-171. <https://doi.org/10.1111/ele.13412>

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McDowell, N. G., C. D. Allen, **K. Anderson-Teixeira**, B. H. Aukema, B. Bond-Lamberty, L. Chini, J. S. Clark, M. Dietze, C. Grossiord, A. Hanbury-Brown, G. C. Hurtt, R. B. Jackson, D. J. Johnson, L. Kueppers, J. W. Lichstein, K. Ogle, B. Poulter, T. A. M. Pugh, R. Seidl, M. G. Turner, M. Uriarte, A. P. Walker, and C. Xu. 2020. Pervasive shifts in forest dynamics in a changing world. *Science*, 368(6494). <https://doi.org/10.1126/science.aaz9463>

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- K. J. Anderson-Teixeira**, J. C. McGarvey*, H. C. Muller-Landau, J. Y. Park*, E. B. Gonzalez-Akre*, V. Herrmann*, A. C. Bennett*, C. V. So*, N. A. Bourg, J. R. Thompson, S. M. McMahon, W. J. McShea (2015). Data from: Size-related scaling of tree form and function in a mixed-age forest. Dryad Digital Repository <http://doi:10.5061/dryad.6nc8c>.

Web Resources

- Kristina J. Anderson-Teixeira**, Chris Shauer*, Xiuli Shen*, Evan H. DeLucia (2011). Greenhouse Gas Value Calculator: A publicly accessible web-based tool for calculating the greenhouse gas value of ecosystems. www.globalchangesolutionsllc.com/GHGVcalc.html. *Global Change Solutions, LLC*.

GRANTS

- Daniel Johnson, Carlos Silva, Eben Broadbent, James Lutz, **Kristina Anderson Teixeira**. MRA: Resolving the multi-scale drivers of tree mortality from field and remote sensing data on co-located ForestGEO-NEON sites. Grant amount \$1,005,822, \$33,385 to SCBI. NSF Macrosystems. 06/15/2021-05/31/2026.
- Kristina Anderson-Teixeira**. Contract on Support to Data Collection for the IPCC EFDB. The Nature Conservancy. \$9,900. March 2021- September 2021.
- Kristina Anderson-Teixeira**, Norbert Kunert, Portable photosynthesis yield analyzer (MINI-PAM-II/R with 2035-B leaf clip). Smithsonian Research Equipment Pool. \$14,205.00. Feb. 2020.
- Kristina Anderson-Teixeira**. Launching an online Climate Conservation Value (CCV) calculator. Smithsonian - Working Land & Seascapes. \$5,000. April -Dec 2020.
- Scott Miller, Carlo Seifert, Vojtěch Novotný, **Kristina Anderson-Teixeira (SI)**, Yves Basset, Mehrdad Hajibabaei, and Jeremy deWaard. Barcoding trophic interactions in ForestGEO Lepidoptera. Smithsonian Institution DNA Barcode Network. \$11,996. 2020.
- Kristina Anderson-Teixeira**, Sean McMahon, Helene Muller-Landau, Camille Piponiot*, [13 additional collaborators]. How will the woody productivity of forests worldwide respond to climate change? Smithsonian Scholarly Studies. \$75,000. Dec. 2019- Sept. 2020.
- Kristina Anderson-Teixeira**, Norbert Kunert*, Osmometer (Wescor Inc VAPRO PRESSURE OSMOMETER 5600). Smithsonian Research Equipment Pool. \$10,749. 2019.
- Alyssa Terrell*, **Kristina Anderson-Teixeira**. Drivers of tree mortality in Virginia's Blue Ridge Ecoregion. Virginia Native Plants Society. \$5000. 2019.
- Kristina Anderson-Teixeira** & Helene Muller-Landau. Analysis and Development of Smithsonian's global forest carbon database (ForC). Smithsonian Scholarly Studies. \$75,000. January 1- December 31, 2018.
- Kristina Anderson-Teixeira**, Norbert Kunert*, Osmometer (Wescor Inc VAPRO PRESSURE OSMOMETER 5600). Smithsonian Research Equipment Pool. \$10,749. 2019.
- Kristina Anderson-Teixeira**. 1505D Pressure Chamber Instrument. Smithsonian Research Equipment Pool. \$3,985. 2019.
- Kristina Anderson-Teixeira**, Alan Tepley*, Iara Larcher. Forest resilience to imminent ash die-off in Shenandoah National Park. Shenandoah National Park Trust. \$15,000. January 1- December 31, 2018.
- Kristina Anderson-Teixeira**, Alan Tepley*. Biotic Disturbances and Tree Mortality in Virginia's Blue Ridge Ecoregion. Virginia Native Plants Society. \$5000. 2017.
- Kristina Anderson-Teixeira**. Ecological determinants of tropical-temperate trends in insect diversity. Subcontract from Czech Academy of Sciences on European Research Council grant. \$63,252. 2017.
- Davies, Comita, Jones, Muller-Landau, and Swenson (senior personnel include **K.J. Anderson-Teixeira**); Dimensions US-China: Integrating functional, phylogenetic and genetic components of diversity for an improved understanding of forest structure, dynamics, and change; \$296,240. 2016-2017.
- Kristina Anderson-Teixeira**, Erika Gonzalez-Akre; Smithsonian Women's Committee; Debuting an online ecosystem climate regulation services calculator. \$15,850. 2015-2016.
- Kristina Anderson-Teixeira**, Helene Muller-Landau, Sean McMahon; Smithsonian Competitive Grants for Science Program; In forests globally, are large trees more sensitive to aridity? \$100,000. 2015-2016.
- Kristina Anderson-Teixeira**, Sean McMahon, Matteo Detto, Evan DeLucia, James Lutz, Ty Lindburg; Smithsonian Grand Challenges; Using automated dendrometer bands to link tree

stem size changes to ecosystem-atmosphere exchange at CTFS-ForestGEO sites. \$75,000. 2015-2016.

Jonathan Thompson, **Kristina Anderson-Teixeira**, Adam Miller*, Howard Epstein, Robert Scheller, Thomas Spies, Mellissa Lucash; NSF DEB; Understanding the potential for a climate change-driven critical transition from forest to chaparral. \$964,975 (\$183, 274 to Smithsonian); 2014-2017.

Helene Muller-Landau, **Kristina Anderson-Teixeira**, Stephanie Bohlman, Richard Condit, Stuart Davies, Matteo Detto, Jefferson Hall, Patrick Jansen, Stefan Schnitzer, Edmund Tanner, and S. Joseph Wright; Smithsonian Competitive Grants for Science Program; Measuring the seasonal rhythms of leafing, flowering, and fruiting in tropical landscapes using unmanned aerial vehicles and computer vision. \$100,000. 2014-2015

Kristina J. Anderson-Teixeira, Sean McMahon, Geoffrey Parker; Smithsonian Competitive Grants for Science Program; Linking Forest Community Dynamics to Ecosystem-Climate Interactions; \$97,200. 2013-2015.

Kristina J. Anderson-Teixeira, Evan H. DeLucia, Benjamin D. Duval; DOE Terrestrial Ecosystem Science; Carbon Dynamics of Forest Recovery under a Changing Climate: Forcings, Feedbacks, and Implications for Earth System Modeling; \$314,913. 2012-2014.

Evan H. DeLucia, **Kristina J. Anderson-Teixeira**, Steven P. Long. BP Energy Sustainability Challenge; Constructing a Second-Generation Decision-Support Tool for Calculating Comprehensive Climate Regulation Value of Ecosystems; \$60,000. 2012-2013.

Evan H. DeLucia, **Kristina J. Anderson-Teixeira**, Mark B. David, Madhu Khanna, Stephen P. Long, William J. Parton, Thomas B. Voigt; SunGrant Initiative; Using second-generation biofuel feedstocks to improve the carbon economy of US agriculture; \$644,517. 2011-2013.

Evan H. DeLucia, **Kristina J. Anderson-Teixeira**, Steven P. Long. BP Energy Sustainability Challenge; The interaction between emerging renewable energy industries and ecosystem health: synthesis, theoretical framework and predictions; \$190,000. 2010-2012.

Kristina J. Anderson-Teixeira; Grove Summer Scholarship, University of New Mexico Biology Department; \$3000. 2006.

AWARDS, HONORS, & INVITED TALKS

Awards & Honors

Presidential Early Career Award for Scientists and Engineers (PECASE), 2019.

Invited participant, White House Leadership Summit on Women, Climate, and Energy (2013)

Honorable mention, Ecological Society of America Biogeosciences Junior Scientist Outstanding Publication (Elizabeth Sulzman) Award (2008)

Student Award for Innovation in Informatics, University of New Mexico (2007; \$250)

Fellowship, Graduate Research Program in Ecological Complexity, University of New Mexico (Aug. 2002- July 2003, Jan. 2004- July 2006)

NSF Graduate Research Fellowship honorable mention (2003)

Invited Talks

Aspen Global Change Institute Workshop “Forest Dynamics in the Anthropocene: Reconciling Satellite and Model-Based Estimates of Forest Carbon Mitigation Potentials”. (April, 2021)

George Washington University, Department of Biological Sciences (November 2018)

Smithsonian Sustainability Progress Briefing; Washington, DC (November 2016)

University of Virginia, Department of Environmental Sciences (September 2015)
 Future Earth symposium on Global Biodiversity monitoring, Yale University (May 2015)
 George Mason University (February 2015)
 American Geophysical Union Fall Meeting, San Francisco (December 2014)
 Harvard Forest; Petersham, MA (September 2014)
 Smithsonian Castle Lecture Series (Living in the Anthropocene); Washington, DC (January 2014).
 Online at <http://www.si.edu/consortia/castlelectureseriesjanuary232014/>.
 Beijer-Gothenburg Interdisciplinary Research Program in Developing Countries Proposal Design
 Workshop; Cape Town, S. Africa (Oct. 2014)
 University of Virginia- Blandy Experimental Farm (June 2013)
 University of Oklahoma (April 2013)
 Smithsonian Tropical Research Institute, Panama –Tupper seminar (October 2012)
 Gordon Research Conference: Metabolic Basis of Ecology (July 2012)
 University of Montana, Missoula (June 2012)
 Smithsonian Institution, Washington, DC (May 2012)
 Indiana University, Bloomington (February 2012)
 University of Massachusetts, Boston (February 2012)
 University of Georgia, Athens (June 2011)
 Columbia University, Lamont-Doherty Earth Observatory (February 2011)
 University of California, Irvine (February 2011)
 University of Texas, Arlington (January 2011)
 American Geophysical Union Fall Meeting, San Francisco (December 2010)
 Wellesley College (December 2010)
 Penn State University (November 2010)
 Smithsonian Institution; Washington, DC (November 2010)
 University of Maryland Appalachian Lab (October 2010)
 Second Annual Biofuels Law and Regulation Conference (The Renewable Energy Legislation
 Puzzle: Putting the Pieces Together), Urbana, IL (April 2010).
 University of Illinois at Urbana-Champaign Plant Biology Departmental Colloquium (March 2010).
 University of Wisconsin, Madison (February 2010)
 Biosciences Institute Seminar Series (February 2010)
 BIOEN Workshop on the Impact of Land Use Change and Biofuel Crops on Soils and the
 Environment, São Paulo, BRAZIL (June 2009).
 Gonzaga University (December 2008)
 Workshop- The Metabolic Theory of Ecology and Stream Ecosystems: The Role of Resources (May
 2007)
 Workshop on Biocomputing, University of New Mexico, Albuquerque (March 2007)

TRAINING & TEACHING

Mentees & Lab Associates

Sabbatical visitor: Albert Kim (2020-2021)
 Smithsonian Research Associates: Erika Gonzalez-Akre (2020-present); Susan Cook-Patton (2020-
 present); Norbert Kunert (2020- present); Alan Tepley (2017-present)
 Professionals: Erika Gonzalez-Akre (2013-Sept 2020); Valentine Herrmann (Dec. 2015- present)
 Postdocs: Camille Pioniot (Oct. 2019- Sept. 2020); Norbert Kunert (February 2018- Feb 2020);
 Alan Tepley (March 2015-September 2017); Adam Miller (Aug. 2012-present;
 UIUC/Smithsonian)

Research Assistants: Madison Williams (2021-present); Jennifer Jordan (2021-present); Brianna Calkins (2021); Teagan Rogers (2021); Nidhi Vinod (2020-2021); Cameron Dow (2020); Bianca Gonzalez (2020); Alyssa Terrell (2018-2019); Ian McGregor (2018-2019); Rebacca Banbury Morgan (2018-2019); Joseph Zailaa (2018); Ryan Helcoski (2017- 2018); Aaron Goodman (2017), Thomas Blair (April 2017-Sept. 2017), Maria Losada (April 2016- Oct. 2017); Geoffrey Nichols (June-Aug. 2016, April-Oct. 2017); Grace Carscallen (April 2016-Oct 2016); Kate Aldrich (April 2016-Oct 2016); Victoria Meakem (June 2015-present); Cheng-Yin Eng (May 2015-Sept. 2015); Maria Wang (July 2014-Jan. 2016); Valentine Herrmann (June 2014-Nov. 2015); Amy Bennett (Oct. 2013- July 2014); Jennifer McGarvey (July 2013-July 2014); Janice Park (May-Aug. 2013); Mohammad Moein Z. Azimi (May 2012-June 2014; UIUC)

Visiting Postdocs: Gregg Lamarre (April 2016-Dec. 2017); Eben Broadbent (fall 2013-spring 2014); Angélica M. Almeyda Zambrano (fall 2013-spring 2014)

Visiting Graduate Students: Andrew Jablonski (2021-present); Lukas Magee (2021-present); Martin Volf (April 2016- Dec. 2017); Carlo Seifert (April 2016- Dec. 2017); Atticus Stovall (June 2014-June 2016)

Smithsonian-Mason Research Semester students (Research in Conservation; CONS 496): mentored 10 students between Fall 2017 and Spring 2021.

Smithsonian-Mason Practicum Students (Conservation in Practice; CONS 320): mentored 12 students between Fall 2013 and Spring 2017.

Volunteers: hosted 32 volunteers between 2013 and 2019, totaling >3000 volunteer-hours.

Courses Taught & Assisted

Biology for Health-Related Sciences and Non-Majors Lab (BIOL 123L), University of New Mexico (Fall 2006)

Introduction to Biology Lab (BIOL 121L), University of New Mexico (Fall 2003)

Molecular Genetics (BIOL 353), Wheaton College, teaching assistant (Spring 2002)

Eukaryotic Genetics (BIOL 354), Wheaton College, teaching assistant (Spring 2002)

College Biology I Lab (BIOL 231), Wheaton College, teaching assistant (Fall 2001)

Guest Lectures

“Terrestrial ecosystem-climate interactions in an era of global change” Applied Climate Change (CONS 697); Smithsonian-Mason School of Conservation (Fall 2013, Fall 2014)

“Pollution”; Ecosystem Ecology (IB 452/NRES 462); University of Illinois (2011)

“Biodiversity”; Ecosystem Ecology (IB 452/NRES 462); University of Illinois (2011)

“Can biofuels reduce fossil fuel dependence and slow climate change?”; Wellesley College; Wellesley, MA (2010)

“Using vegetation modeling to understand the effects of perturbations on ecosystems”; Penn State University; State College, PA (2010)

“Body Size and the pace of life”; Gonzaga University, Spokane, WA (2008)

“Plant Hormones & Regulation, part 1”, Plant & Animal Form & Function (BIOL 204); University of New Mexico (2007)

“Plant Hormones & Regulation, part 2”, Plant & Animal Form & Function (BIOL 204); University of New Mexico (2007)

“Community Change”, Biogeography (BIOL 494); University of New Mexico (2006)

“Succession, part 1”, Community Ecology (BIOL 511); University of New Mexico (2005)

“Succession, part 2”, Community Ecology (BIOL 511); University of New Mexico (2005)

“Biogeography”, Ecology (BIOL 310); University of New Mexico (2005)

Training in Supervising & Teaching

Fundamentals for Supervisors, Smithsonian Institution, April 2014.

Certificate in Foundations of Teaching, University of Illinois (completed March 2011)

Teaching workshops attended at UIUC: 16 1-3 hour workshops from 2009-2011:

UIUC School of Integrated Biology Faculty Teaching Retreat 2009: “Scientific Teaching”.

UIUC Center for Teaching Excellence Workshops: “Service-Learning Course Design Clinic”;

“Fundamentals of Service-Learning Course Design”; “Developing Campus-Community

Partnerships for Service-Learning”; “Strategies for Service-Learning Reflection”; “Using

Service Learning to Teach Professional Skills”; “Perspectives on Engaged Scholarship”; “Test

construction”; “Mentoring & Advising Students”; “Do Students Really Learn Science and

Engineering Concepts or Are They Just Studying for the Test?”; “Managing Your Course:

Anticipating and Overcoming Classroom Problems”; “Interpreting ICES Results”; “How are

You Doing? Using Informal Early Feedback (IEF)”; “How are you and your students doing?

Using Classroom Assessment Techniques”; “Leading Effective and Interesting Discussions”;

“Effective PowerPoint Presentations”

CONFERENCES, WORKSHOPS, & SYMPOSIA

Workshop & Symposia Organization

“Forest ecohydrology under a changing climate”; American Geophysical Union Fall Meeting (Dec. 2018) (co-organizer)

"Alteration of Disturbance-Driven Forest Dynamics under a Changing Climate"; American Geophysical Union Fall Meeting (Dec. 2016) (co-organizer)

"Global forest dynamics and interactions with a changing climate"; American Geophysical Union Fall Meeting (Dec. 2015) (lead organizer)

"Global forest dynamics and interactions with a changing climate"; American Geophysical Union Fall Meeting (Dec. 2014) (lead organizer)

"Dynamics of global forests under a changing climate"; American Geophysical Union Fall Meeting (Dec. 2013) (lead organizer)

"Forest dynamics under a changing climate and their long-term context"; American Geophysical Union Fall Meeting (Dec. 2012) (lead organizer)

“Ecological Dimensions of Biofuel Production”; Ecological Society of America Meeting (August 2010) (co-organizer)

Workshop & Symposia Participation

Aspen Global Change Institute Workshop “Forest Dynamics in the Anthropocene: Reconciling Satellite and Model-Based Estimates of Forest Carbon Mitigation Potentials”. Virtual. April, 2021

Center for Tropical Forest Science- ForestGEO-2019 Workshop; Singapore (June 22- July 5, 2019)

Integrating CO₂ Fertilisation Evidence Streams and Theory: Global Terrestrial Carbon Sink. Tucson, AZ (Oct. 19-21, 2018). (remote participation)

2018 Environmental System Science (ESS) PI Meeting. Potomac, MD (May 1-2, 2018).

Ecological Knowledge and Predictions: Integrating across networks and national observatories; Tucson, AZ (Feb. 19-21, 2018)

Center for Tropical Forest Science- ForestGEO-2017 Workshop; Rio Grande, Puerto Rico (July 17-31, 2017)

Smithsonian Sustainability Progress Briefing; Washington, DC (November 2016)

NEON workshop; Front Royal, VA (April 2016)

Center for Tropical Forest Science- ForestGEO-2015 Workshop; Gamboa, Panama (June-July 2015)

Future Earth symposium on Global Biodiversity Monitoring; Yale University (May 2015)

Center for Tropical Forest Science- ForestGEO-2014 Workshop; Xishuangbanna, China (July-Aug. 2014)

Beijer-Gothenburg Interdisciplinary Research Program in Developing Countries Proposal Design Workshop; Cape Town, S. Africa (Oct. 2014)

Center for Tropical Forest Science -2013 Workshop; Front Royal, VA (July-Aug. 2013)

National Center for Ecological Analysis and Synthesis (NCEAS) working group: Synthesizing top-down and bottom-up approaches to ecological energetics; Santa Barbara, CA (July 2013)

White House Leadership Summit on Women, Climate, and Energy; Washington, DC; May 23, 2013

Smithsonian National Zoo Palm Oil Workshop; Washington, DC; Jan. 8, 2013

SilvaCarbon LiDAR Workshop; Washington, DC; Nov. 28-29 2012

Smithsonian Institution Global Earth Observatory (SIGEO) – Center for Tropical Forest Science (CTFS) Genomics Working Group; National Museum of Natural History; November 9-10 2012

Center for Tropical Forest Science -2012 Workshop; Seattle, WA (July-Aug. 2012)

Energy Sustainability Challenge Workshop, London, UK (December 2010)

Second Annual Biofuels Law and Regulation Conference (The Renewable Energy Legislation Puzzle: Putting the Pieces Together), Urbana, IL, USA (April 2010).

BIOEN Workshop on the Impact of Land Use Change and Biofuel Crops on Soils and the Environment, São Paulo, BRAZIL (June 2009).

Energy Biosciences Workshop on Bioenergy Crop Modeling and Land Use. (Oct. 2008). U.C. Berkeley, CA.

Workshop on The Metabolic Theory of Ecology and Stream Ecosystems: The Role of Resources, Sevilleta LTER, NM, USA (May 2007).

Workshop on Biocomputing, University of New Mexico, Albuquerque, NM, USA (March 2007).

Selected Talks & Posters (* indicates advisee)

Kristina Anderson-Teixeira et al. Using tree-ring records to simultaneously characterize the influence of climate, tree size, and slowly changing environmental drivers on annual growth. ForestGEO Seminar Series. February 2021.

Anderson-Teixeira, Kristina J; Helcoski, Ryan*; McGregor, Ian*; Tepley, Alan J*; Herrmann, Valentine*; Gonzalez-Akre, Erika B*; Kunert, Norbert*; Pedersen, Neil; Sack, Lawren; Stovall, Atticus E*. Resolving interannual climate sensitivity of tree growth and forest productivity by integrating tree-rings, leaf hydraulic traits, and forest census data. American Geophysical Union Fall Meeting; San Francisco, CA (Dec. 2019)

Muller-Landau, Helene C; Arroyo, Eva E; Cano, Isabel Martinez; Backiel, Bogumila; **Anderson-Teixeira, Kristina J.** Patterns and mechanisms of local, regional, and global variation in tropical forest woody productivity, turnover rates, and biomass carbon stocks. American Geophysical Union Fall Meeting; San Francisco, CA (Dec. 2019)

Taylor, Tyeen; Smith, Marielle; Visser, Marco D; McMahan, Sean; **Anderson-Teixeira, Kristina J;** Kunert, Norbert*; Herrmann, Valentine*; Muller-Landau, Helene C; Shao, Gang; Stark, Scott

- C. A thermal tolerance trait distinguishes microclimatic niches of tropical trees. American Geophysical Union Fall Meeting; San Francisco, CA (Dec. 2019)
- Araujo, Raquel; Muller-Landau, Helene C; Grubinger, Samuel; Arellano, Gabriel; **Anderson-Teixeira, Kristina J**; Chambers, Jeffrey Q. Quantifying high temporal resolution patterns of gap creation and tree mortality in the 50 ha plot on Barro Colorado Island using drone-acquired imagery. American Geophysical Union Fall Meeting; San Francisco, CA (Dec. 2019)
- Kunert, N*, Zailaa, J*, Sack, L, Muller-Landau, H, McMahon, S, Condit, R, **Anderson-Teixeira, K.** Turgor loss point as indicator for tropical tree species distribution along a steep rainfall gradient. American Geophysical Union Fall Meeting; Washington, DC (Dec. 2018)
- Anderson-Teixeira, K. J.**; Herrmann, V. J.*; McGarvey, J. C.*; Wang, M. J.*; Kunert, N.*; Cook-Patton, S.; Bond-Lamberty, B. P.; Muller-Landau, H. C. ForC: a global database characterizing carbon cycling in mature and regrowth forests. American Geophysical Union Fall Meeting; Washington, DC (Dec. 2018)
- Anderson-Teixeira, K.J.**, V Herrmann, J McGarvey, M Wang, N Kunert, B Bond-Lamberty, H Muller-Landau. ForC: a global database characterizing carbon cycling in mature and regrowth forests. ForestSAT; College Park, MD (October 2018).
- Anderson-Teixeira, K.J.** and many collaborators. Role of Tree Size in Forest Carbon Cycling and Moisture Stress Responses. CTFS-ForestGEO workshop; Puerto Rico (July 2017)
- Tepley, A.J.*, J.R. Thompson, H. Epstein, **KJ Anderson-Teixeira.** Potential for Extensive Forest Loss in the Klamath Mountains due to Increased Fire Activity and Altered Post-Fire Forest Recovery Dynamics in a Warming Climate; American Geophysical Union Fall Meeting; San Francisco, CA (Dec. 2016)
- Tepley, A.J.*, T.T. Veblen, GLW Perry, **KJ Anderson-Teixeira.** Vulnerability & Resilience of Temperate Forest Landscapes to Changing Fire Regimes and Altered Post-Fire Vegetation Dynamics. UVA-NFWF Workshop: “The Science and Practice of Human-Natural System Resilience”; Charlottesville, VA (March 2016).
- Tepley, AJ*, T Veblen, G Perry, **KJ Anderson-Teixeira.** Vulnerability and Resilience of Temperate Forest Landscapes to Broad-Scale Deforestation in Response to Changing Fire Regimes and Altered Post-Fire Vegetation Dynamics; American Geophysical Union Fall Meeting; San Francisco, CA (Dec. 2015)
- Anderson-Teixeira, KJ**, Adam D. Miller*, Alan J. Tepley, Amy C. Bennett*, Maria M. H. Wang*. Interactions of forest disturbance-recovery dynamics with a changing climate; American Geophysical Union Fall Meeting; San Francisco, CA (Dec. 2015)
- Anderson-Teixeira, KJ**, Maria M. H. Wang*, Jennifer C. McGarvey*, David L. LeBauer. Carbon dynamics of mature and regrowth tropical forests derived from a pantropical database (TropForC-db); American Geophysical Union Fall Meeting; San Francisco, CA (Dec. 2015)
- Anderson-Teixeira, KJ**, Stuart J. Davies; Amy C. Bennett*, Erika B. Gonzalez-Akre* (presenter). CTFS-ForestGEO: a worldwide network monitoring forests in an era of global change. BIOCON Peru 2015: Andes Amazon Biodiversity Conservation; Lima, Peru (October 2015)
- Anderson-Teixeira KJ**, Davies, SJ; Bennett, AC*; Gonzalez-Akre, EB*; Muller-Landau, HC; Wright, SJ; Abu Salim, K; Almeyda Zambrano*, AM; Alonso,A; Baltzer, JL; Basset, Y; Bourg, NA; Broadbent*, EN; Brockelman, WY; Bunyavejchewin, S; Burslem, DFRP; Butt, N; Cao, M; Cardenas, D; Chuyong, GB; Clay, K; Cordell, S; Dattaraja, HS; Deng, X; Detto, D; Du, X; Duque, A; Erikson, DL; Ewango, CEN; Fischer, GA; Fletcher, C; Foster, RB; Giardina, CP; Gilbert, GS; Gunatilleke, N; Gunatilleke, S; Hao, Z; Hargrove, WW; Hart, TB; Hau, BCH; He, F; Hoffman, FM; Howe, RW; Hubbell, SP; Inman-Narahari, FM; Jansen, PA; Jiang, M; Johnson, DJ; Kanzaki, M; Kassim, AR; Kenfack, D; Kibet, S; Kinnaird, MF; Korte, I; Kral, K;

- Kumar, J; Larson, AJ; Li, Y; Li, X; Liu, S; Lum, SKY; Lutz, JA; Ma, K; Maddalena, DM; Makana, JR; Malhi, Y; Marthews, T; Mat Serudin, R; McMahon, SM; McShea, WJ; Memiaghe, HR; Mi, X; Mizuno, T; Morecroft, M; Myers, JA; Novotny, V; Oliveira, AA de; Ong, PS; Orwig, DA; Ostertag, R; Ouden, J d; Parker, GG; Phillips, RP; Sack, L; Sainge, MN; Sang, W; Sri-ngernyuang, K; Sukumar, R; Sun, IF; Sungpalee, W; Suresh, HS; Tan, S; Thomas, SC; Thomas, DW; Thompson, J; Turner, BL; Uriarte, M; Valencia, R; Vallejo, MI; Vicentini, V; Vrška, T; Wang, X; Wang, X; Weiblen, G; Wolf, A; Xu, H; Yap, S; Zimmerman, J (August 2015) CTFS-ForestGEO: A worldwide network monitoring forests in an era of global change. Ecological Society of America meeting, Baltimore, MD, USA
- Wang, Maria*, **K.J. Anderson-Teixeira**. (August 2015) ForC-db - A Global Forest Carbon Database. Smithsonian Conservation Biology Institute Student Research Symposium, Washington, D.C.
- Eng, Cheng-Yin*, E. B. Gonzalez-Akre*, A.J. Tepley*, **K.J. Anderson-Teixeira** (August 2015). Patterns of Tree Mortality in a Temperate Deciduous Forest Smithsonian Conservation Biology Institute Student Research Symposium, Washington, D.C.
- Anderson-Teixeira, K.J.**, Miller, A.D.*, Wang, M.*, McGarvey, J.*, Dietze, M, LeBauer, D, Duval, B.D., DeLucia, E.H. (April 2015) Carbon Dynamics of Forest Recovery under a Changing Climate: Forcings, Feedbacks, and Implications for Earth System Modeling. TES/SBR Joint Investigators Meeting, Potomac, MD.
- Bennett, A.C.*, McDowell, N.G., Allen, C.D., **Anderson-Teixeira, K.J.** (Dec 2014). In forests globally, large trees suffer most during drought. American Geophysical Union Fall Meeting, San Francisco, CA.
- DeLucia, E.H., Mies, T., **Anderson-Teixeira, K.J.**, Bohleber, A., Herrmann, V.* (Dec. 2014). TreeHuggers: Wireless Sensor Networks for Automated Measurement and Reporting of Changes in Tree Diameter. American Geophysical Union Fall Meeting, San Francisco, CA.
- Anderson-Teixeira, K.J.**, Miller, A.D.*, McGarvey, J.*, Dietze, M, LeBauer, D, Duval, B.D., DeLucia, E.H. (May 2014) Carbon Dynamics of Forest Recovery under a Changing Climate: Forcings, Feedbacks, and Implications for Earth System Modeling. TES/SBR Joint Investigators Meeting, Potomac, MD.
- Anderson-Teixeira, K.J.**, Muller-Landau, H., McMahon, S., Davies, S.J. (Dec 2013). CTFS-ForestGEO: A global network to monitor forest interactions with a changing climate. American Geophysical Union Fall Meeting, San Francisco, CA.
- Miller, A.D.*, Dietz, M., DeLucia, E., **Anderson-Teixeira, K.J.** (Dec 2013). American Geophysical Union Fall Meeting, San Francisco, CA.
- Anderson-Teixeira, K.J.**, Miller, A.D.*, Duval, B.D., DeLucia, E.H. (May 2013) Carbon Dynamics of Forest Recovery under a Changing Climate: Forcings, Feedbacks, and Implications for Earth System Modeling. TES/SBR Joint Investigators Meeting, Potomac, MD.
- Anderson-Teixeira, K.J.**, Miller*, A.D., Mohan, J.E., Hudiburg, T., Duval, B.D., DeLucia, E.H. (Feb 2013) Altered dynamics of forest recovery under a changing climate. North American Carbon Program Meeting, Albuquerque, NM.
- Anderson-Teixeira K.J.**, Duval B.D., Long S.P., DeLucia, E.H. (December 2012) Biofuels on the landscape: Is “land sharing” preferable to “land sparing”?, American Geophysical Union Fall Meeting, San Francisco (December 2012)
- Anderson-Teixeira K.J.**, Duval B.D., Long S.P., DeLucia, E.H. (August 2012) Biofuels on the landscape: Is “land sharing” preferable to “land sparing”?, Ecological Society of America’s Annual Meeting, Portland, OR, USA.

- DeLucia, E.H., **Anderson-Teixeira, K.J.**, Duval, B.D., Davis, S.C., Bernacchi, C.J., Parton, W.J. (August 2012) Impacts of growing perennial grasses for biofuel in the U.S. corn belt, Ecological Society of America's Annual Meeting, Portland, OR, USA.
- Gomez-Casanovas N., **Anderson-Teixeira K.J.**, Zeri M., Bernacchi C. & DeLucia E. (August 2012) Gap filling strategies for annual estimates of soil respiration, Ecological Society of America's Annual Meeting, Portland, OR, USA.
- Ernest, S.K.M., **Anderson-Teixeira, K.J.**, Smith, F.A. (July 2012). Size-temperature responses of organisms and metabolic response to climate change. Gordon Research Conference: Metabolic Basis of Ecology, University of New England, ME.
- Anderson-Teixeira K.J.**, Masters M., Black C. , Zeri M., Bernacchi C., & DeLucia E.H. (July 2012) Altered belowground C cycling following land use change. Pan American Congress on Plants and Bioenergy, Urbana, IL.
- Anderson-Teixeira K.J.**, Duval B.D., Long S.P., DeLucia, E.H. (July 2012) Biofuels on the landscape: Is "land sharing" preferable to "land sparing"? Pan American Congress on Plants and Bioenergy, Urbana, IL.
- Anderson-Teixeira K.J.**, Snyder P.K., Twine, T.E., Cuadra, S, Costa, MH, & DeLucia E.H. Climate regulation services of natural and agricultural ecoregions of the Americas. American Geophysical Union Fall Meeting, San Francisco (December 2011)
- Anderson-Teixeira K.J.**, Masters M., Zeri M., Black C. & DeLucia E.H. (August 2011). Enhanced belowground carbon cycling in perennial bioenergy crops, Ecological Society of America's Annual Meeting, Austin, TX, USA.
- Anderson-Teixeira K.J.**, Masters M., Zeri M., Black C. & DeLucia E.H. (August 2011). Enhanced belowground carbon cycling in perennial bioenergy crops, Energy Biosciences Retreat, Berkeley, CA, USA. (2nd prize in poster competition)
- Anderson-Teixeira, K.J.**, Snyder, P.M., & DeLucia, E.H. (August 2010). Quantifying the climate impacts of land use change, Ecological Society of America's Annual Meeting, Pittsburgh, PA, USA.
- Anderson-Teixeira, K.J.** (August 2009). Quantifying the full greenhouse gas effects of biofuels-related land use change, Ecological Society of America's Annual Meeting, Albuquerque, NM.
- Litvak, M.E., **Anderson-Teixeira, K.J.**, DeLong, J.P. (August 2009). Measurements of Ecosystem Function Across an Elevation Gradient in New Mexico: Determining the sensitivity of NM biomes to climate change, Ecological Society of America's Annual Meeting, Albuquerque, NM.
- Anderson-Teixeira, K.J.**, Davis, S.C., Masters, M.D., DeLucia, E.H. (December 2008). Changes in soil organic carbon storage under potential biofuel crops, American Geophysical Union Fall Meeting, San Francisco, CA.
- Anderson-Teixeira, K.J.**, Davis, S.C., Masters, M.D., DeLucia, E.H. (June 2008). Changes in soil organic carbon storage under potential biofuel crops. Pan American Congress on Plants and Bioenergy, Mérida, MEXICO.
- Anderson, K.J.** (August 2006). Temporal patterns in rates of community change during succession. Ecological Society of America's Annual Meeting, Memphis, TN.
- Anderson, K.J.** (July 2006). Temperature dependence of forest turnover rates. Gordon Research Conference: Metabolic Basis of Ecology. Lewiston, ME.
- Anderson, K.J.** (July 2005). Temperature-dependence of ecosystem processes during primary succession. Hawaii Ecosystems Project Meeting. Kea'au, HI.
- Anderson, K.J.** and Jetz W. (June 2005). The broad scale ecology of energy expenditure of endotherms. Physiological Ecology Meeting, Bishop, CA.

- Anderson, K.J.** and Jetz W. (Jan 2005). The broad scale ecology of energy expenditure of endotherms. International Biogeography Society Meeting, Shepherdston, WV.
- Anderson, K.J.** (August 2004). Metabolic control on succession rate. Ecological Society of America's Annual Meeting, Portland, OR.
- Anderson, K.J.** (July 2004). Metabolic control on succession rate. Gordon Research Conference: Metabolic Basis of Ecology. Lewiston, ME.
- Anderson, K.J.** (August 2003). Latitudinal trends in energy expenditure of endotherms. Ecological Society of America's Annual Meeting, Savannah, GA.
- Anderson, K.J.,** Page, L.K. (April 2002). Effect of the presence of seed upon granivore visitation to raccoon latrines and similar structures. National Conference on Undergraduate Research, Whitewater, WI.

Other Participation

- AGU Outstanding Student Paper Award judge (2011, 2012)
 Volunteer Judge for UIUC Plant Biology Fall Research Symposium (2009, 2011)

PROFESSIONAL SERVICE

Grant Proposal Review

CTFS-ForestGEO Research Grants Program panel (2014, 2016); Smithsonian Biodiversity Consortium Review Panel (2014); NERC Large Grant Scheme (2017); DOE GOAmazon panel (2013); Netherlands Open Programme for Earth and Life Sciences (2018); NSF Post-Doctoral Research Fellowships in Biology full panel (2022); NSF Geobiology and Low-Temperature Geochemistry program (2011); DOE National Institute for Climate Change Research (2009); University of Wisconsin Water Resources Institute (2013)

Manuscript Review

[Review profile on Publons](#) (maintained starting 2018)

Reviews for >27 journals including *Science*, *Nature Climate Change*; *Nature Communications*; *Nature Ecology & Evolution*; *Nature Plants*; *Proceedings of the National Academy of Science*; PLOS ONE; *Ecology Letters*; *Global Change Biology*; *New Phytologist*; *Ecology*; *Ecological Monographs*; *Ecological Applications*; *Journal of Ecology*; *New Phytologist*; *Oecologia*; *JGR Biogeosciences*; *Ecography*; *Ecology & Evolution*; *Frontiers in Ecology & Evolution*; *Environmental Research Letters*; *Forest Ecology & Management*; *Physiological and Biochemical Zoology*; *Plant Biology*; *Journal of Plant Ecology*; *Plant, Cell & Environment*; *Annals of Botany*; *Applied Vegetation Science*; *GCB Bioenergy*; *Environmental Science & Technology*; *Environmental Management*; *Agriculture & Food Security*

Committee Service

- IDA Science and Technology Policy Institute's Earth Observations Assessment Ecosystems Societal Benefit Area Team (2014-2016)
 Smithsonian Living in the Anthropocene Committee (2013- 2014)
 Committee for Public Affairs & Communications, International Biogeography Society (2006-2007)

OUTREACH & COMMUNITY SERVICE

Non-academic Articles

Anderson-Teixeira, K.J. (October 2019) [Yes, Tropical Forests Tragically Burned This Summer, but Here's What You Can Do](#). *Smithsonian Magazine*. www.smithsonianmag.com

Press Releases/ News Stories

2021

[Scientists reduce uncertainty in forest carbon storage calculations](#) | Science Daily

2020

[New study shows where we should grow more forest to fight climate change](#) | Mongabay
[Study highlights climate mitigation potential of encouraging Earth's forests to regenerate naturally](#) | University of Oxford

[Plant trees or let forests regrow? New studies probe two ways to fight climate change](#) | Science
[How the Revolutionary Thinker Alexander von Humboldt Helped to Create the Smithsonian](#) | Smithsonian Magazine

[Death of the giants: Forests getting shorter, younger, in Northwest and elsewhere](#) | Seattle Times
[Forests Are Getting Shorter and Younger All Over the World](#) | Smithsonian Magazine

[Climate Change And Deforestation Mean Earth's Trees Are Younger And Shorter](#) | NPR
More on world's forests getting younger, shorter (McDowell et al. 2020): [CNBC](#) | [Daily Californian](#)
[The grand old trees of the world are dying, leaving forests younger and shorter](#) | National Geographic

[Decades of Tree Data Reveal Forests Under Attack](#) | Smithsonian Magazine

[Deadly imports: In one U.S. forest, 25% of tree loss caused by foreign pests and disease](#) | Science
[One in Four Tree Deaths in Blue Ridge Mountains Linked to Invasive Species](#) | Smithsonian National Zoo & Conservation Biology Institute

[New Research Identifies Carbon-Rich Lands That Are Essential to Avoiding Climate Catastrophe](#) | Conservation International

2019

Intern Alyssa Terrell's work on tree mortality was highlighted at the [Virginia Native Plant Society website](#)

[Yes, Tropical Forests Tragically Burned This Summer, but Here's What You Can Do](#) | Smithsonian Magazine

[NACP Researcher Spotlight: Kristina J. Anderson-Teixeira, Ph.D.](#)

Kristina Anderson-Teixeira awarded the Presidential Early Career Award for Scientists and Engineers: [President's Prize \(STRI story\)](#) | [ForestGEO blog](#) | [SCBI news story](#) | [White House press release](#) | [AGU press release](#)

2018

[Inequality is normal: Dominance of the big trees](#) | Science Daily

[Climate change, wildfires transforming biodiversity hotspot in Northern California](#) | United Press International

[Warming future means more fire, fewer trees in western biodiversity hotspot](#) | Science Daily

[Using Mathematical Models to Save Forests](#) | Smithsonian National Zoo & Conservation Biology Institute

[Increasing tree mortality in a warming world](#) | Science Daily

[Ash Tree die-off focus of grant in Shenandoah National Park](#) | National Park Service

2017

Washington Post Going Out Guide (Dec. 6, 2017) [See a stink bug that's inches long at a National Zoo show all about insects](#).

SciDevNet (July 14, 2017) “[El Niño puede dañar resiliencia de bosques tropicales](#)” [El Niño can damage tropical forest resilience].

Mongabay (June 15, 2017) “[The ‘interval squeeze’: Climate change makes it less likely conifer forests will regenerate after wildfires](#)”

Harvard University. (April 27, 2017) "Scientists examine impact of high-severity fires on conifer forests: Study finds that wildfire in a warming climate could relegate portions of forested landscapes to shrubland." Picked up by ScienceDaily, many others.

Smithsonian National Zoo & Conservation Biology Institute. (April 27, 2017) [Smithsonian Scientists Examine Impact of High-Severity Fires on Conifer Forests](#).

2014-2016

Smithsonian National Zoo & Conservation Biology Institute. (October 13, 2016) [A Beetle Invasion](#).

Lieberman, Bruce (January 5, 2016) Big Trees at Most Risk From Warming. *Yale Climate Connections*. www.yaleclimateconnections.org/2016/01/big-trees-at-most-risk-from-warming/

Ryan, Michael G. (2015) News & Views: Tree mortality: Large trees losing out to drought. *Nature Plants* 1(10).

Patterson, Brittany and ClimateWire (October 1, 2015). The big, iconic trees are the first to die in severe drought. *ClimateWire*. Published by *Scientific American*.

DOE/Los Alamos National Laboratory (September 29, 2015). Large trees—key climate influencers—die first in drought. Picked up by *ScienceDaily*, *EurekAlert!*, *PhysOrg.com*, many others

Smithsonian National Zoo (September 28, 2015). Smithsonian Conservation Biology Institute Study Finds Forest Giants Suffer Worst During Droughts. Picked up by *World News Network*.

Duchene, Lisa (2015). Global Game Changer. *Smithsonian Zoogoer*. Autumn 2015. 16-23.

Rosner, H. (April 02, 2015). Are Harvard’s dying hemlocks a warning for trees everywhere? *National Geographic*.

Smithsonian Tropical Research Institute (September 26, 2014). If Trees Could Talk: Forest Research Network Reveals Global Change Effects. Smithsonian Tropical Research Institute. *World News*, *Science Daily*, *EurekAlert!*, *PhysOrg.com*, many others

2012-2014

Stromberg, Joseph M. (2013). Into the wired. *Smithsonian*, September 2013. p. 78-80.

LeFevre, K. (2012). Biomes in the balance. *NASA Sensing Our Planet 2012*. p. 40-43. <http://earthdata.nasa.gov/featured-stories/featured-research/biomes-balance>

Hungate, B.A. & Hampton, H.M. (2012). Ecosystem services: Valuing ecosystems for climate. *Nature Climate Change*, 2, 151–152.

da Silveira, E. (2012) A equação do clima (The climate equation). *Revista Pesquisa FAPESP*, Março 2012, 50-51.

Mihelich, L., (Jan. 2012). Land use poses a critical impact on local climate change. *Medill Reports*. Northwestern University; Chicago, IL. (picked up by several news agencies)

University of Illinois News Bureau (Jan 2012). Team finds a better way to gauge the climate costs of land use changes. *EurekAlert!*, *PhysOrg.com*, *AOL News*, *World News*, *Huffington Post*, many others

2008-2011

Wiley-Blackwell (September 2011). Improving sugarcane ethanol production: The 'midway' strategy. *ScienceDaily*.

Righetti, S. (Aug. 2011). Floresta intercalada a plantações de cana reduz emissões de CO₂ (Forests interspersed with sugarcane plantations reduce CO₂ emissions). *Folha*, São Paulo, Brazil. August 17, 2011.

Hahn M. (June 2010). Radio Interview with Dr. Kristina Anderson-Teixeira. Saga Radio Networks, LLC d.b.a. Illinois Radio Network. Chicago, IL. (distribution: >50 radio stations in IL)

University of Illinois News Bureau (2010). Researchers calculate the greenhouse gas value of ecosystems. *EurekAlert!*, *United Press International*, *ScienceDaily*, *First Science*, *redOrbit*, many others
 McCaffrey, R., 2008. Interview with Dr. Kristina Anderson-Teixeira. *Morning on the Farm*, WICD-TV (Champaign, IL) and WICS-TV (Springfield, IL), December 23, 2008.
 University of Illinois News Bureau (2008). Replacing corn with perennial grasses improves carbon footprint of biofuels. *EurekAlert!*, *ScienceCentric*, others

Public Events/ Community Outreach

SCBI Events

Public lecture at Smithsonian Conservation Biology Institute's Conservation Discovery Day (Oct. 2018, 2019, 2020)
 Booth at Smithsonian Conservation Biology Institute's Conservation Discovery Day (Oct. 2017)
 Booth at Smithsonian Conservation Biology Institute's 40th Anniversary Event (Nov 2015)
 Booth at Smithsonian Conservation Biology Institute's Summer Safari (May 2014, 2015, 2016, 2017, 2018)
 Booth at Smithsonian Conservation Biology Institute's Autumn Conservation Festival (Oct. 2014, Oct. 2016)

Other

Work featured in the Smithsonian American Art Museum exhibit "[Alexander von Humboldt and the United States: Art, Nature, and Culture](#)". May 14, 2021 — July 11, 2021.
 Panelist for the Smithsonian National Museum of Natural History's online film discussion: "[Natural History on the Big Screen – Feedback Loops: Forests](#)". May 19, 2021.
 SCBI ForestGEO plot tours for Virginia Native Plant Society (Sept. 2017, Oct. 2019)
 Talk at Smithsonian Material Culture Forum: [The Materiality of Beloved Smokey Bear and 75 Years of Wildlife Prevention](#) (Aug. 13, 2019) National Zoological Park, Washington, DC.
 Booths on forest responses to emerald ash borer and other invasive insects at Shenandoah National Park Visitor Centers (July, Aug. 2018)
 Collaborated on "[Adaptation/Migration in the Anthropocene](#)" art exhibit by Maggie Gourlay at the National Zoological Park, Washington, DC. (Fall 2017)
 Participant in Flooded Lecture Series "Waste", Washington, DC (September 2014)
 Panel Member at DC Environmental Film Festival: "The Last Call", National Museum of Natural History (March 2014)
 Lecture to Virginia Native Plants Society: "Forest-climate interactions in an era of global change". Virginia Native Plants Society 2014 Workshop: *Taking the beat: A look at Plants and Climate Change*, March 1, 2014.
 Public lecture at Smithsonian Conservation Biology Institute: "Forest-climate interactions in an era of global change". (April 22, 2013).
 Anderson-Teixeira K.J., Mao Y., Smith C., Zeri Z., David M., Berenbaum M., Bernacchi C., Mackie R., DeLucia E.H. Environmental Impact and Sustainability of Feedstock Production. *Energy Farm Tour* (Energy Bioscience Institute).

Educational Outreach

Our ForC database the basis of two [Data Nuggets](#) and an [inquiry-based learning module](#) for high school students.
 Anderson-Teixeira lab hosted tree mortality research experience for CONS 440/540: Ecology Field Skills; Smithsonian-Mason School of Conservation, Front Royal, VA (June 2018)

Anderson-Teixeira lab hosted forest ecology research experience for high school students participating in FONZ (Friends of the National Zoo) Nature Camp; Smithsonian Conservation Biology Institute, Front Royal, VA (2017)

Anderson-Teixeira lab hosted forest ecology research experience for students participating in UCSB-Smithsonian Scholars program (2015, 2016, 2017, 2018).

Volunteer Judge for Science Research Expo, Menaul School; Albuquerque, NM (2006)

CONTACT INFORMATION

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