

David H. Klinges



Assistant Professor of Data Science/AI of Extreme Events

Department of Ecology, Evolution and Natural Resources, Rutgers University

• Email: dklinges9@gmail.com • Site: ecoclimateglobal.org/ • Code: github.com/dklinges9 • [Google Scholar](https://scholar.google.com/)

EDUCATION

Aug 2024 **Ph.D. Interdisciplinary Ecology**, University of Florida, Gainesville, FL. *Advisor: Brett Scheffers*

2017 **A.B. Biology (High Honors)**; Dartmouth College, Hanover, NH

PROFESSIONAL EXPERIENCE

2026 – **Assistant Professor**, Dept. of Ecology, Evolution and Natural Resources, Rutgers University

2024 – 26 **Postdoctoral Associate**, Yale University. *Advisor: David Skelly*

2018 – 19 **GIS and Data Technician**, Smithsonian Institution

2017 **Resident Naturalist**, Alliance for a Sustainable Amazon (Madre de Dios, Peru)

RESEARCH INTERESTS

I am a global change ecologist interested in **how climate change and land use change jointly impact biodiversity, from microhabitat to global scales**. Global change research currently suffers from an overreliance on climate data from weather stations or satellites that do not measure ecologically-relevant microclimates. **I integrate ecophysiology, meteorology, and biogeography to study how microclimates drive plant and animal ecology**, building bridges between environmental and life sciences. I develop theory, quantitative models, and data that increase ecological realism of climate change research to advance conservation and ecosystem sustainability under global change. Via this work I help improve understanding of how **organismal physiology, community composition, and biogeography respond to dynamic environments**. Throughout my work, I have also promoted diversity, equity, and inclusivity, and prioritized applying basic research to inform practical decision-making as we face global change.

RECENT GRANTS AND AWARDS *(total awarded to date: \$369,438)*

2025 Nominated for Blavatnik Regional Award by Yale University
2024 Wildlife Ecology and Conservation Outstanding Graduate Research Award (*one per year*)
2023 Smithsonian Climate Change Postdoctoral Fellowship: \$134,000 (*awarded, but declined offer*)
2023 GoFundMe Crowdfunding Campaign: Randriambololona Memorial Film Fellowship: \$4,076
2023 James Davidson Graduate Travel Scholarship: \$300
2022 Tropical Conservation and Development Practitioner Grant: \$1,000
2022 Robin E. Nadeau Graduate Research Award: \$4,000
2022 Wildlife Ecology and Conservation Travel Grant: \$400
2022 SE Climate Adaptation Science Center Research Mini-Grant: \$1,000
2021 University of Florida International Center Research Abroad for Doctoral Students: \$4,182
2021 School of Natural Resources and Environment Travel Grant: \$250
2020 Explorers Club Fjällräven Field Grant: \$5,000
2020 Tropical Conservation and Development Field Research Grant: \$2,000
2020 GoFundMe Crowdfunding Campaign "Support Forest Climate Research in Madagascar": \$5,230
2019 Thad Owens Memorial Fund: \$3,000
2019 National Science Foundation Graduate Research Fellowship: \$141,000
2019 University of Florida Research Assistantship: \$64,000
2019 University of Miami Dean's Fellowship (*awarded, but declined offer*)
2019 University of British Columbia Four-Year Fellowship (*awarded, but declined offer*)
2019 Northwestern Medill School of Journalism Merit Scholarship (*awarded, but declined offer*)

PEER-REVIEWED PUBLICATIONS

*Corresponding/senior author; †Available upon request; **Indicates Undergraduate mentee**; **Graduate mentee**
Summary: H-index: 16; Total Citations: 2,292 (Google Scholar); 30 total papers; 9 first-author papers; 18 papers in journals with Impact Factor > 5; 11 papers in journals with Impact Factor > 10

- 2026 (31) **Klinges, D.H.***, Freidenburg, L. K., Rubinstein, A., Skelly, D. Meteorology and geography, more than biological traits, drive variation in frog phenology across decades. *In press at Ecology*[†]
- (30) **Klinges, D.H.***, Muñoz, M. M., Domínguez-Guerrero, S. F., Maclean, I.M.D., Kearney, M.R. Skelly, D.K. Matching climate to biological scales. *Trends in Ecology and Evolution (cover article, April 2024)*. DOI: [10.1016/j.tree.2025.11.015](https://doi.org/10.1016/j.tree.2025.11.015)
- 2025 (29) **Klinges, D.H.***, Lembrechts, J.J., Van de Vondel, S., **Greenlee, E.**, Hayles-Cotton, K., Senior, R. A workflow for microclimate sensor networks: integrating geographic tools, statistics, and local knowledge. *Ecological Informatics* DOI: [10.1016/j.ecoinf.2025.103376](https://doi.org/10.1016/j.ecoinf.2025.103376)
- (28) **Greenlee, E.**, **Klinges, D.H.**, Randriamiharisoa, L. O., Valenta, K., Rakotoarivelo, J. C., Rasojivola, J., Rambeloniaina, J., Rasolonjatovo, N. N., Razafindramavo, G., Mijoro, T. J., Ratsirarson, J., Ramahatratra, E., Efitiria, Raharinalomanana, Z., Rajoelison, E. T., Ross, A. C., Kelly, T. J., Zegura, E., Hester, J. Cabral., A. Sustaining Workers Who Sustain the World: Assets-Based Design for Conservation Technologies in Madagascar. *Proceedings of the ACM on Human-Computer Interaction* DOI: [10.1145/3757664](https://doi.org/10.1145/3757664)
- (27) **Soifer, L.**, Lockwood, J. L., Lembrechts, J. J., Antão, L. H., **Klinges, D.H.**, Senior, R. A., Ban, N. C., Evengard, B., Fadrique, B., Falkeis, S., Fredston, A. L., Guralnick, R., Lenoir, J., Neate-Clegg, M. H. C., Palacios-Abrantes, J., Pecl, G., Pinsky, M. L., Smith, J. E., Stys, B., Tingley, M. W., Scheffers, B. R. Extreme events drive rapid and dynamic range fluctuations. *Trends in Ecology and Evolution* DOI: [10.1016/j.tree.2025.06.009](https://doi.org/10.1016/j.tree.2025.06.009)
- (26) **Soifer, L.**, **Klinges, D.H.***, Randriamiharisoa, L., Scheffers, B.R. Decision analysis shows scientific and economic value of community-based monitoring in Madagascar. *Biological Conservation*. 309, 111281. DOI: [10.1016/j.biocon.2025.111281](https://doi.org/10.1016/j.biocon.2025.111281)
- (25) Fredston, A.L., Tingley, M.W., Neate-Clegg, M.H.C., Evans, L.J., Antão, L.H., Ban, N.C., Chen, I.C., Chen, Y.W., Comte, L., Edwards, D.P., Evengard, B., Fadrique, B., Falkeis, S.H., Guralnick, R., **Klinges, D.H.**, Lembrechts, J.J., Lenoir, J., Palacios-Abrantes, J., Pauchard, A., Pecl, G., Pinsky, M.L., Senior, R.A., Smith, J.E., Soifer, L.D., Sunday, J.M., Tape, K.D., Washam, P., Scheffers, B.R. Reimagining species on the move across space and time. *Trends in Ecology and Evolution* DOI: [10.1016/j.tree.2025.03.015](https://doi.org/10.1016/j.tree.2025.03.015)
- (24) **Klinges, D.H.***, Maclean, I.M.D, Scheffers, B.R. Redrawing Köppen-Geiger classes with microclimate: implications for nature and society. *Frontiers in Ecology and the Environment* e2831 DOI: [10.1002/fee.2831](https://doi.org/10.1002/fee.2831)
- (23) **Klinges, D. H.**, Martin, C. W., & Roberts, B. J. Ecological associations of the coastal marsh periwinkle snail *Littoraria irrorata*: Field and laboratory evidence of vegetation habitat preferences. *PeerJ*, 13, e19071. DOI: [10.7717/peerj.19071](https://doi.org/10.7717/peerj.19071)
- 2024 (22) **Klinges, D.H.***, **Randriambololona, T.**, Lange, Z., Laterza-Barbosa, J., **Randrianandrasana, H.**, Scheffers, B.R. Vertical and diel niches modulate thermal selection by rainforest frogs. *Proceedings of the Royal Society of London B: Biological Sciences*, 291: 20241497. (cover article, Nov 2024). DOI: [10.1098/rspb.2024.1497](https://doi.org/10.1098/rspb.2024.1497) Chosen for [cover photo of issue 2035](#)

(21) De Frenne, P., Beugnon, R., **Klinges, D.H.**, Lenoir, J...*et al.*, 26 total co-authors. Ten practical guidelines for microclimate monitoring in terrestrial ecosystems. *Methods in Ecology and the Environment*. DOI: [10.1111/2041-210X.14476](https://doi.org/10.1111/2041-210X.14476)

(20) Randriamiharisoa, L., **Klinges, D.H.**, Razafindranaivo, S. Scheffers, B.R Community-sourced knowledge improves biodiversity monitoring in Madagascar's National Parks. *Discover Conservation* 1, 1-14. DOI: [10.1007/s44353-024-00015-x](https://doi.org/10.1007/s44353-024-00015-x)

(19) **Klinges, D.H.*** Microclimate regulates when autumn leaves fall. *Nature Climate Change*, 14, 1226-1227 *Invited perspective* DOI: [10.1038/s41558-024-02154-4](https://doi.org/10.1038/s41558-024-02154-4)

(18) **Klinges, D.H.***, Baecher, J.A., Lembrechts, J.J., Maclean, I.M.D., Lenoir, J., Greiser, C., Ashcroft, M., Evans, L.J.... Scheffers, B.R. 30 total co-authors. Proximal microclimate: Moving beyond spatiotemporal resolution improves ecological predictions. *Global Ecology and Biogeography*, 33, e13884. DOI: [10.1111/geb.13884](https://doi.org/10.1111/geb.13884)

(17) Trew, B.T., Edwards, D.P., Lees, A.C., **Klinges, D.H.**, Early, R., Svátek, M., Plichta, R., Matula, R., Okello, J., Niessner, A., Barthel, M., Six, J., Maclean, I. M. D. Novel climates are already widespread beneath the world's tropical forest canopies. *Nature Climate Change*, 14, 753–759. DOI: [10.1038/s41558-024-02031-0](https://doi.org/10.1038/s41558-024-02031-0)

(16) Malmborg, C., Willson, A.M., Beatty, M., Bradley, L. M., **Klinges, D.H.**, Lewis, A.S.L., Oshinubi, K., Woelmer, W., Koren, G. Defining Model Complexity: An Ecological Perspective. *Meteorological Applications* 31, e2202 DOI: [10.1002/met.2202](https://doi.org/10.1002/met.2202)

(15) Kemppinen, Julia... **Klinges, D.H...** et al., 98 total co-authors. Microclimate, an inseparable part of ecology and biogeography. *Global Ecology and Biogeography* e13834 DOI: [10.1111/geb.13834](https://doi.org/10.1111/geb.13834)

(14) Holmquist, J.R., **Klinges, D.H...** Megonigal, J.P. 20 total co-authors. The Coastal Carbon Library and Atlas: Open Source Soil Data and Tools Supporting Blue Carbon Research and Policy. *Global Change Biology* 30:e17098. DOI: [10.1111/gcb.17098](https://doi.org/10.1111/gcb.17098)

2023

(13) Price, F., Randriamiharisoa, L., **Klinges, D.H.*** Enhancing demographic diversity of scientist-community collaborations improves wildlife monitoring in Madagascar. *Biological Conservation* 288:110377. DOI: [10.1016/j.biocon.2023.110377](https://doi.org/10.1016/j.biocon.2023.110377). *Klinges senior author.*

(12) Basham, E.W., Baecher, J.A., **Klinges, D.H.**, Scheffers, B.R. Vertical stratification patterns of tropical forest vertebrates: a meta-analysis. *Biological Reviews* 98:99-114. DOI: [10.1111/brv.12896](https://doi.org/10.1111/brv.12896)

2022

(11) **Klinges, D.H.***, Duffy, J., Kearney, M.R., Maclean, I.M.D. mcera5: driving microclimate models with ERA5 global gridded climate data. *Methods in Ecology and Evolution* 13:1402–1411 DOI: [10.1111/2041-210X.13877](https://doi.org/10.1111/2041-210X.13877)

(10) Rixen, C... **Klinges, D.H...** et al., 68 total co-authors. Winters are changing: snow effects on Arctic and alpine tundra. *Arctic Science*, 8:572–608. DOI: [10.1139/as-2020-0058](https://doi.org/10.1139/as-2020-0058)

(9) Lembrechts, J. J., van den Hoogen, J., Aalto, J., Ashcroft, M. B., De Frenne, P., Kemppinen, J., Kopecký, M., Luoto, M., Maclean, I. M. D., Crowther, T. W., Bailey, J. J., Haesen, S., **Klinges, D. H...** Nijs, I. 272 total co-authors Global maps of soil temperature. *Global Change Biology* 00:1-35. DOI: [10.1111/gcb.16060](https://doi.org/10.1111/gcb.16060)

(8) Todd-Brown, K.E.O., Abromoff, R.Z., Beem-Miller, J., Blair, H.K., Earl, S., Frederick, K.J., Fuka, D.R., Santamaria, M.G., Harden, J.W., Heckman, K., Heran, L.J., Holmquist, J.R., Hoyt, A.M., **Klinges, D.H.**, LeBauer, D.S., Malhotra, A., McClelland, S.C., Nave, L.E., Rocci, K.S.,

Schaeffer, S.M., Stoner, S., Nvan Gestel, N., von Fromm, S.F., and Younger, M.L. Reviews and syntheses: The promise of big diverse soil data, moving current practices towards future potential. *Biogeosciences* 19:3505–3522. DOI: [10.5194/bg-19-3505-2022](https://doi.org/10.5194/bg-19-3505-2022)

(7) De Lombaerde, E., Vangansbeke, P., Lenoir, J., Van Meerbeek, K., Lembrechts, J., Rodríguez-Sánchez, F., Luoto, M., Scheffers, B., Haesen, S., Aalto, J., Christiansen, D.M., De Pauw, K., Depauw, L., Govaert, S., Greiser, C., Hampe, A., Hylander, K., **Klinges, D. H.**, Koelemeijer, I., Meeussen, C., Ogée, J., Sanczuk, P., Vanneste, T., Zellweger, F., Baeten, L. & De Frenne, P. Maintaining forest cover to enhance temperature buffering under future climate change. *Science of The Total Environment* 151338. DOI: [10.1016/j.scitotenv.2021.151338](https://doi.org/10.1016/j.scitotenv.2021.151338)

2021

(6) Maclean, I.M.D., **Klinges, D.H.** Microclimc: an R package for estimating above, below and within-canopy microclimate. *Ecological Modelling* 451:109567. DOI: [10.1016/j.ecolmodel.2021.109567](https://doi.org/10.1016/j.ecolmodel.2021.109567)

(5) Woelmer, W.M., Bradley, L.M., Haber, L.T., **Klinges, D.H.**, Lewis, A.S.L., Mohr, E.J., Torrens, C.L., Wheeler, K.I. & Willson, A.M. Ten simple rules for training yourself in an emerging field. *PLOS Computational Biology*, 17:e1009440. DOI: [10.1371/journal.pcbi.1009440](https://doi.org/10.1371/journal.pcbi.1009440)

(4) Frenne, P.D., Lenoir, J., Luoto, M., Scheffers, B.R., Zellweger, F., Aalto, J., Ashcroft, M.B., Christiansen, D.M., Decocq, G., Pauw, K.D., Govaert, S., Greiser, C., Gril, E., Hampe, A., Jucker, T., **Klinges, D.H.**, Koelemeijer, I.A., Lembrechts, J.J., Marrec, R., Meeussen, C., Ogée, J., Tyystjärvi, V., Vangansbeke, P. & Hylander, K. Forest microclimates and climate change: Importance, drivers and future research agenda. *Global Change Biology*, 27:2279-2297. DOI: [10.1111/gcb.15569](https://doi.org/10.1111/gcb.15569)

(3) **Klinges, D.H.*** & Scheffers, B.R. Microgeography, not just latitude, drives climate overlap on mountains from tropical to polar ecosystems. *The American Naturalist*, 197:75–92. Top 4 Most Read Articles of Autumn 2020. DOI: [10.1086/711873](https://doi.org/10.1086/711873)

2020

(2) Lembrechts, J.J., ... **Klinges, D.H.**...Lenoir, J. 179 total co-authors. SoilTemp: a global database of near-surface temperature. *Global Change Biology*, 00:1–14. DOI: [10.1111/gcb.15123](https://doi.org/10.1111/gcb.15123)

2017

(1) Reinke, B. A., **Klinges, D.H.** *Chelydra serpentina* (Snapping Turtle) behavior. *Herpetological Review* Natural History Notes 48(2):423. [Full text available here](#)

UNDER
REVIEW

Domínguez-Guerrero, S. F., Bodensteiner, B. L., Friedman, S. T., **Klinges, D. H.**, Skelly, D. K., Mahler, D. L., Frishkoff, L. O., Muñoz, M. M. Thermal ecology drives alternative responses to rising temperatures in Caribbean anoles. *In revision at Proceedings at the National Academy of Sciences*

Baecher, J.A., **Klinges, D.H.**, Evans, L.J., Romagosa, C.M., Fletcher Jr., R.J., Scheffers, B.R. Jointly evaluating management, climate, and land use shows diffuse spread of an invading predatory snake. *In revision at Journal of Applied Ecology*[†] [Preprint available](#)

Holmquist, J., Belshe, E. F., Boyd, B.....**Klinges, D.H.**, et al. 29 total co-authors. Probabilistic forecasting of coastal wetland soil carbon response to sea-level rise. *In revision at Ecological Monographs*

Moeys, K., Van den Bossche, A., **Klinges, D.H.**, De Frenne, P., Thomaes, A., Brunet, J., Cousins, S.A.O., Diekmann, M., Graae, B.J., Hagenblad, J., Hedwall, P., Heinken, T., Huang, S., Lenoir, J., Lindgren, J., Mazalla, L., Naaf, T., Orczewka, A., Paulssen, J., Peng, X., Plue, J.,

Spicher, F., Vanneste, T., Verschuren, L., Visakorpi, K., Van Meerbeek, K., Cooling potential of large solitary trees in the face of climate change and urbanization. *In review at Landscape and Urban Planning*

SOFTWARE

- 2024 **Microclimate sensor networks:** optimal selection of sensor locations for any landscape. **Klinges, D.H.**, Van de Vondel, S. <https://github.com/dklinges9/Microclimate-Sensor-Networks>
- 2023 **microclimf:** fast spatial microclimate modeling anywhere on earth. Maclean, I.M.D., **Klinges, D.H.** <https://github.com/ilyamaclean/microclimf>
- 2022 **mcera5:** driving microclimate models with ERA5 global gridded climate data. **Klinges, D.H.**, Duffy, J., Kearney, M.R., Maclean, I.M.D. <https://github.com/dklinges9/mcera5>
- 12 stars on GitHub, > 45 users assisted over email/GitHub
- 2021 **microclimc:** estimating above, below and within-canopy microclimate. Maclean, I.M.D., **Klinges, D. H.** <https://github.com/ilyamaclean/microclimc>

TEACHING AND MENTORING

Students Mentored

PhD students are formally under a separate primary supervisor

- 2026 – Caleb Truscott (PhD), Rutgers University (*serving on PhD Committee*)
- 2024 – Thomas Kelly (PhD), University of Florida (*serving on PhD Committee*)
- 2024 – Eric Greenlee (PhD), Georgia Institute of Technology
- 2022 – Mikoja Raminintsoa (PhD), University of Antananarivo (*serving on PhD Committee*)
- 2022 – Lydia Soifer (PhD), University of Florida
- 2021 – 24 Fiona Price (Undergraduate), Dartmouth College ([Price et al. 2023](#), *Klinges senior author*)
- 2019 – 23 Herizo Randrianandrasana (Masters), University of Fianarantsoa
- 2019 – 22 Tsitohaina Randriambololona (PhD), University of Antananarivo (*deceased*)

Awards developed in collaboration with Mentees (total: \$17,540)

- 2024 Society of Conservation Biology Student Grant to Mikoja Raminintsoa (\$1,000)
- 2024 IdeaWild Equipment Grant to Mikoja Raminintsoa (\$1,500)
- 2024 Animal Behavior Society Student Grant to Mikoja Raminintsoa (\$1,500)
- 2024 Society for the Study of Amphibians and Reptiles to Mikoja Raminintsoa (\$500)
- 2023 Madagascar Film and Photography Student Fellowship to Herizo Randrianandrasana (\$5,076)
- 2023 Dartmouth Global Research Award to Fiona Price (\$8,040)

Teaching Certifications

- 2023 Preparing Future Faculty Course, *University of Florida*
- 2019 Certified Data Carpentries Instructor, *The Carpentries*

Teaching Assistant

- 2024 Biodiversity Conservation: Global Perspectives (WIS 2552), *University of Florida*
- 2024 Wildlife Issues in a Changing World (WIS 2040), *University of Florida*
- 2023 Natural Resource Ecology (WIS3404), *University of Florida*
- 2017 Peru Project Semester-Long Field Course (*TA & Lecturer*), *Wildlands Studies*

Workshop Designer/Leader

- 2025 Spatial Biophysics and Microclimate Tools. *International Biogeography Society, invited*
- 2025 Modeling physiologically-relevant microclimate variables anywhere on Earth. *ICCB 2025, invited*
- 2024 Data Analysis and Visualization in R for Ecologists. *Carpentries Workshop, University of Florida*
- 2023 Microclimate Data and Models for Ecological Applications. *Species on the Move 2023, invited*
- 2022 Analyser les Données pour la Gestion du Parc. *Madagascar National Parks, in French*
- 2020 – 22 Ecological Forecasting Initiative Student Association Workshop (3 consecutive years)
- 2020 Managing and Analyzing Geospatial Data in R. *Carpentries Workshop, University of Florida*
- 2019 Exploring Data with R Tidyverse and Git Version control. *Carpentries Workshop, Smithsonian*
- 2019 Measuring and Modeling Wetlands Soil Carbon. *Smithsonian Environmental Research Center*

Invited Lecturer

Life in Motion: Animal Physiology, Yale University (2025); Heat Stress, Yale University (2025); Linear Mixed Effects Models, Coding4Conservation (2022); Global Change Biology, University of Florida (2021); Reptiles and Amphibians of the Southeast, University of Florida (2021)

DEI, SERVICE AND OUTREACH

- 2021 – **DEI Database Manager, Ecological Forecasting Initiative**
- Developed DEI database quantifying EFI's membership demographics to evaluate what initiatives increase diversity over time. Database used to inform EFI outreach
- 2021– **Steering Committee Member, [Microclimate Ecology and Biogeography Consortium](#)**
- 2021 – 22 **Early Career Steering Committee Member, Ecological Forecasting Initiative**
- 2019 – 23 **Student Association Co-Chair, Ecological Forecasting Initiative**
- One of three inaugural chairs; organized monthly networking, training opportunities, and 3 workshops; composed Student Association's Operating Principles and Procedures
- 2019 – **Pro Bono Data Analyst, Madagascar National Parks (MNP)**
- 2019 – **Board Member/Scientific Advisor, Alliance for a Sustainable Amazon, Madre de Dios, Peru**
- 2019 – 21 **Expert Network Member, Constructing a Digital Environment, NERC, London, UK**
- 2018 **Museum Sleepover Series Volunteer and Video Producer Smithsonian Institution**

Invited Peer Referee: *Nature Climate Change, Nature Communications, Global Change Biology, PNAS, Ecology Letters, Methods in Ecology and Evolution, Ecography, Global Ecology and Biogeography, Integrative and Comparative Biology, Ecosphere, Ecology and Evolution, Theoretical and Applied Climatology, Environmental Monitoring and Assessment, Forest Ecology and Management, Herpetology Notes (~16 reviews per year)*

NON-REFEREED PUBLICATIONS

Peters, J., Sjodin, A., Torres, R., McLachlan, J., Willson, A., **Klinges, D. H.**, Brown, C., Dalbotten, D., Bueno Watts, N., Kowalski, C. (2024) The EFI DEI Strategic Plan: What Have We Learned in 4 Years? Ecological Forecasting Initiative Blog Post. <https://ecoforecast.org/blog/#DEIJ>

Michonneau, J. F., Teal, T., Fournier, A., Seok, B., Obeng, A., Pawlik, A. N., Conrado, A. C., Woo, K., Lijnzaad, P., Hart, T., White, E. P., Marwick, B., Bolker, B., Jordan, K. L., Ashander, J., Dashnow H., Hertweck, K., Cuesta, S. M., Becker, E. A., Guillou, S., Shiklomanov, A., **Klinges, D. H.**, Odom, G. J. (2019) "datacarpentry/R-ecology-lesson: Data Carpentry: Data Analysis and Visualization in R for Ecologists, June 2019." <https://datacarpentry.org/R-ecology-lesson/>

SCIENCE COMMUNICATION AND MULTIMEDIA

Mongabay Environmental News, Washington, DC

- 2018 – 19 *Wildtech Journalism Intern, Freelancer-in-Residence*
- Reported on conservation tech to publicly communicate science; 9 published articles online: <https://goo.gl/KfHEK2>

RESET (Raising Excitement for Science, Engineering and Technology)

- 2018 – 19 *Volunteer Science Presenter*
- Educated hundreds of children with interactive exhibits on soil horizons, ecosystems, & adaptations.

Wildlands Studies, remote & Madre de Dios, Peru

- 2017 – 18 *Video Coordinator and Producer*
- Produced films on ecological field studies to be used in campus presentations (<https://goo.gl/epsJXq>).

Amazon Conservation Association, Washington, DC

2018 *Communications and Social Media Intern*

- Managed photo archive, produced video content for social media posts, and annual report.

Dartmouth College, Hanover, NH

2015 *Digital Arts Lab Manager*

- Administered daily open hours; designed and taught workshops on film and photo editing.

INVITED SEMINARS

2025 Yale University YIBS Seminar
2025 University of Wisconsin-Madison
2025 Rutgers University
2024 Brown University
2024 Madagascar Biodiversity Center
2024 University of Florida

SELECT PRESENTATIONS

Klinges, D. H., Skelly, D. K. Meteorology meets biology via microclimates: a case study of near-term forecasting of frog phenology. *Ecological Forecasting Initiative 2025*, Blacksburg VA (oral)

Klinges, D. H., co-authors. Climate Variability And Change Across Scales Using A Novel Global Microclimate Database. *Species on the Move 2023*, Bonita Springs FL (oral)

Klinges, D. H., co-authors. Spatial and temporal resolution versus incorporating microclimate: how to improve climate data for ecological models. *Microclimate Ecology and Biogeography 2022*, Antwerp Belgium (oral)

Klinges, D. H., Scheffers, B. Are mountain passes higher in the tropics? Revisiting the climate variability hypothesis suggests microgeography more important than latitude. *Ecological Society of America 2021 online* (oral)

Klinges, D.H., Holmquist, J., Megonigal, P. Modeling and mapping wetlands carbon as a community resource. *Chesapeake Sentinel Site Cooperative Marsh Resilience Summit 2018*, Williamsburg VA (oral)

Klinges, D. H., Holmquist, J., Megonigal, P. A network for coastal carbon: soil data archival as a community resource and to reduce uncertainties in modeling and mapping. *ESIP 2018*, Washington DC (oral)

HIGHLIGHTED SCIENTIFIC SKILLS

Expertise	Example Software
<i>Version Control and Program Dev</i>	Git, GitHub, Bash, SLURM
<i>Data curation & visualization</i>	tidyverse (e.g. tidy, dplyr), lubridate
<i>Spatiotemporal processing</i>	raster, terra, IDE, FRK, gstat, gDistance
<i>Statistics & Modeling</i>	RJAGS, MuMin, lme4, AICcmodavg
<i>Visualization & Web development</i>	ggplot2, RShiny

Other Software Programs: ArcGIS, Google Earth Engine, Bash, JAGS, Python, JavaScript, VBA, GitHub

Modeling: Bayesian Hierarchical Models, Spatial statistics, Structured decision making

Film: Canon DSLR cameras, Adobe Premiere Pro and Photoshop, Final Cut Pro, DJI Mavic Pro, ImageJ

Certifications: PADI scuba certified, FAA sUAS Remote Pilot License, Data Carpentries instructor

Wilderness: Navigation (compass and GPS), 4WD, manual transmission, CPR and First Aid certification

Languages: English (native), French (fluent)

Hobbies: Distance running, skiing, kayaking, scuba, backpacking