

David Klinges

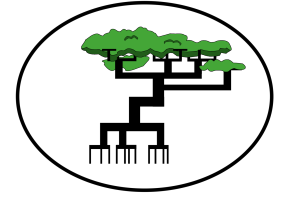
Full-stack Ecologist

Environmental Journalist

Multimedia Consultant

Database Manager

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- <http://natureinparadise.github.io/>
- <https://github.com/dklinges9>



EDUCATION

University of Florida, Gainesville, FL
PhD in Interdisciplinary Ecology

Expected May 2024

Dartmouth College, Hanover, NH
BA in Biology (High Honors); Gamma Sigma Alpha National Honor Society

June 2017

GRANT AND AWARDS

Explorers Club Fjällräven Field Grant: \$5,000	2020
Tropical Conservation and Development Field Research Grant: \$2,000	2020
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: \$64,450 (<i>declined</i>)	2019
University of British Columbia Four-Year Fellowship: \$55,940 (<i>declined</i>)	2019
Northwestern Medill School of Journalism Merit Scholarship: \$28,000 (<i>declined</i>)	2019
Dartmouth Biological Sciences Thesis: High Honors	2017
NSF REU Award: \$5,500	2016
Junior Research Scholarship, Dartmouth College: \$800	2015
Sophomore Science Scholar, Dartmouth College: \$800	2015
Gold Key Award for service to the school (<i>awarded to 10% of class</i>)	2013
Nicholas J. Arcaro Scholar-Athlete Award (<i>awarded to one male and female per graduating class</i>)	2013

RESEARCH

University of Florida, Gainesville, FL
PhD Student, Interdisciplinary Ecology

Aug 2019- Present

- Exploring how microclimate drives biogeography for amphibian communities of Madagascar
- Building regional to global-scale, fine-resolution models of near-surface and soil temperatures as well as forecasting microclimate into the future with uncertainty propagation

Smithsonian Institution, Edgewater, MD & Front Royal, VA
Database Manager

May 2018- July 2019

- Curator of a database of carbon stocks, doubled size of database in first eight months
- Led R-coding and GitHub tutorials for ecologists, built mapping interfaces (<https://goo.gl/jLSBd6>)

GIS Technician

Feb 2018- May 2018

- Geospatial analysis to identify social drivers of spatial/temporal heterogeneity of Myanmar forest loss
- Developed protocols for UAV (drone) mapping of forest landscape, piloted UAVs

Alliance for a Sustainable Amazon, Madre de Dios, Peru
Resident Naturalist

June 2017- Dec 2017

- Led herpetofaunal diversity monitoring; interns on field skills; provided guidance for research projects

Louisiana Universities Marine Consortium, Cocodrie, LA
Research Experience for Undergraduates (REU) Intern

June- August 2016

PUBLICATIONS

Klinges, D. H., Scheffers, B. R. Microgeography, not just latitude, drives climate overlap on mountains from tropical to polar ecosystems. Accepted by *The American Naturalist*

1.

Lembrechts, J. J... **Klinges, D. H.**...*et al.* SoilTemp: a global database of near-surface temperature. *Global Change Biology* 00, 1–14 (2020).

Reinke, B. A., **Klinges, D. H.** 2017. *Chelydra serpentina* (Snapping Turtle) behavior. *Herpetological Review* Natural History Notes 48(2):423.

SCIENTIFIC SERVICE

Ecological Forecasting Initiative Student Working Group

Dec 2019- Present

Co-Chair

- One of three inaugural chairs of student group, organizes networking and training opportunities

Natural Environment Research Council, London, UK

Nov 2019- Present

Expert Network Member

- Selected to advise a NERC initiative on best practices in 'digital environment' and influence UK policy

Data Carpentries Instructor, Washington DC

April 2019- Present

- Leads workshops to deliver introductory data management and coding skills

Alliance for a Sustainable Amazon, Madre de Dios, Peru

April 2019- Present

Board Member

- Advises ASA on biological surveillance, research priorities, and fundraising

SKILLS AND CERTIFICATIONS

Software/Coding: R, ArcGIS, Google Earth Engine, QGIS, Python, JavaScript, VBA, JMP, GitHub

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

Memberships: AAAS, AGU, International Society of Tropical Foresters, Society for Conservation Biology

INVITED TALKS

Klinges, D., Holmquist, J., Megonigal, P. Modeling and mapping wetlands carbon as a community resource. Chesapeake Sentinel Site Cooperative Marsh Resilience Summit 5-6 Feb 2019, Williamsburg VA

Klinges, D., 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 15-17 Jan 2019, Washington DC

SELECT PRESENTATIONS

Klinges, D., Holmquist, J., Megonigal, P., Ramos, J, Brown, L., Todd-Brown, K. Town hall panelist: updates from the CCRCN, data clearinghouse overview. AGU Fall Meeting, 10-14 Dec 2018, Washington DC. (oral)

Klinges, D. The Coastal Carbon Research Coordination Network. Restore America's Estuaries 2018 Blue Carbon Working Group, 16-17 October 2018. (oral)

Klinges, D. Incorporation over Deforestation: Cacao Agroforestry as an Alternative to Papaya Monocrop in Madre de Dios, Peru. International Society of Tropical Foresters Annual Meeting 1-3 Feb 2018, Yale School of Forestry, New Haven, CT (poster).

Klinges, D., Haser, P. The abundance and size distribution of queen conch in protected and open harvest zones surrounding Little Cayman Island. CTEC 12th Annual Symposium, 15 April 2017, Antioch University, Keene, NH. (oral).

SCIENCE COMMUNICATION, MULTIMEDIA AND TEACHING

Mongabay Environmental News, Washington, DC

Freelancer-in-Residence

Wildtech Journalism Intern

April 2019- August 2019

July 2018- Feb 2019

- Reports on global trends in conservation technology to weave technical content into publicly digestible stories; one piece chosen in top ten forest articles of the year. Published work: <https://goo.gl/KfHEK2>

RESET (Raising Excitement for Science, Engineering and Technology)

Volunteer Science Presenter

Sept 2018- Present

- Educated hundreds of children with interactive exhibits on soil horizons, ecosystems, & adaptations.

Wildlands Studies, remote & Madre de Dios, Peru

Video Coordinator and Producer

Dec 2017- Dec 2018

- Produced films on ecological field studies to be used in campus presentations (<https://goo.gl/ebsJXq>).

Peru Project Teaching Assistant

Sept 2017-Nov 2017

- Administered data collection exercises in rainforests; created exams of naturalist knowledge; surpassed job expectations by designing a lecture series on the practices and philosophy of tropical conservation.
- Guided students on experiment design & scientific writing; led hands-on conservation science activities.

Smithsonian Institution, Washington, DC

Museum Sleepover Series Volunteer and Video Producer

June- Sept

2018

- Engaged K-8 students with exhibits at Smithsonian museums; produced video promotional.

Amazon Conservation Association, Washington, DC

Communications and Social Media Intern

Jan 2018- May 2018

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

Dartmouth College, Hanover, NH

Ecology Tutor

April- May 2016

Digital Arts Lab Manager

January- March 2015

- Administered daily open hours; designed and taught workshops on Adobe Photoshop & Premier Pro.

The Fund for the Public Interest, New Brunswick, NJ

Field Manager/Canvasser

June- August 2013, June- August 2014

- Fundraised ~\$20,000 for environmental campaigns (\$300/day, \$120 above office daily average).

DARTMOUTH STUDENT JOURNAL PUBLICATIONS (authors listed alphabetically, equal contribution)

Benson, J., **Klinges, D.**, Haser, P., Polashenski, D. 2016. Effect of circadian rhythms on the response of *Pseudomyrmex* to simulated herbivorous attacks on host *Acacia collinsii*.

Eitel, H., Hastings, H., **Klinges, D.**, Simmons, T. 2016. Group flocking benefits in territorial northern jacanas (*Jacana spinosa*).

Arellano, A., Hastings, C., **Klinges, D.** 2016. Site fidelity, group identity, and site limitations in a gregarious arachnid (Opiliones).

Benson, J., Clement, D., Erritouni, Y., **Klinges, D.** 2016. Inferring the life history of an undescribed nematode on *Corthylius Calmicolens* based on patterns of nematode dispersion.

Haser, P., **Klinges, D.** 2016. Effect of dewlap length on parasite load in *Anolis polylepis*.

Arellano, A., Erritouni, Y., **Klinges, D.** 2016. Color conspicuousness and predator avoidance in a color morph of *Oophaga pumilio*.

Arellano, A., Benson, J., Halvorsen, R., **Klinges, D.** 2016. Optimal foraging strategies of a parasitic gastropod (*Cyphoma gibbosum*).

Halvorsen, R., **Klinges, D.**, Simmons, T. 2016. Is biggest rock best rock? Distribution of echinoderms among daytime shelters.