

# David Klinges

Full-stack Ecologist

Environmental Journalist

Multimedia Consultant

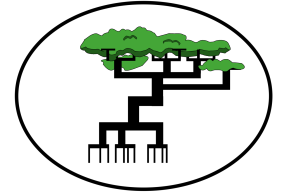
Database Manager

• [dklinges9@gmail.com](mailto:dklinges9@gmail.com)

• 201.469.6679

• <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

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

- Initiated comparative study of herpetofauna diversity between rainforest and agricultural landscapes
- Instructed interns on field note-taking and wilderness skills; provided guidance for research projects

**Louisiana Universities Marine Consortium**, Cocodrie, LA

*Research Experience for Undergraduates (REU) Intern*

June- August 2016

## PUBLICATIONS

---

Lembrechts, J. J. et al. (169 others, including **Klinges, D. H.**). SoilTemp: call for data for a global database of near-surface temperature. Accepted in *Global Change Biology*

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

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 12<sup>th</sup> Annual Symposium, 15 April 2017, Antioch University, Keene, NH. (oral).

## SCIENCE COMMUNICATION, MULTIMEDIA AND TEACHING

---

### **Mongabay Environmental News**, Washington, DC

*Freelancer-in-Residence*

April 2019- August 2019

*Wildtech Journalism Intern*

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 *Corthylus Calmicolens* based on patterns of nematode dispersion.

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

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.