

David H. Klinges III

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Career objective: to promote the conservation of biodiversity with research and multimedia engagement with the public.

EDUCATION

Dartmouth College, Hanover, NH June 2017
Bachelor of Arts, Major in Biology (High Honors); Gamma Sigma Alpha National Honor Society GPA: 3.13/4.00

Relevant Coursework: *Ecology, Methods in Ecology, History of Documentary, Conservation & Biodiversity, Physiology, General Chemistry I & II, Advanced Documentary Filmmaking, Elementary Oceanography, Materials of the Earth, Physiological Ecology, Environmental Ethics, Introduction to Programming & Computation, Genetics and Evolution, Biostatistics (audited), Environmental Applications of GIS, Biology Senior Seminar, Drones for Land Management*

Dartmouth Biological Foreign Study Program, Costa Rica and Little Cayman Island January-March 2016

- Designed, conducted, and presented nine field-based studies while also receiving and delivering lectures.
- Manuscripts of projects underwent peer and faculty review before publication in a school journal.

WORK EXPERIENCE

Data Technician, Smithsonian Environmental Research Center, Edgewater, MD May 2018-Present

- Lead engineer of web-based user interfaces to ingest and interpret submitted datasets, as well as a map display that enables users to select geographic regions and download desired data (currently in limited release beta).
- Assists in management of a team of 16 international biogeochemistry experts with the goal of generating an open-source coastal ecosystem predictive model, map products, and peer-reviewed publications.
- Provides technical advice on data curation, designed coding tutorials (<https://serc.si.edu/coastalcarbon/r-coding>).
- Conserved project budget by fulfilling both written duties as well as those intended for a part-time web developer.

Science Journalist, Mongabay Environmental News, remote July 2018-Present

- Consults scientific literature and leading academics on current trends in conservation technology to convert highly technical content into publicly digestible news articles. Published work: <https://news.mongabay.com/by/david-klinges/>

Conservation GIS Lab Intern, Smithsonian Conservation Biology Institute, Front Royal, VA Feb 2018-May 2018

- Used ArcGIS, Google Earth Engine, and R to refine forest classification models and quantify deforestation.
- Collected and managed satellite data to inform field surveys, piloted UAVs (drones) to map forest landscape.

Video Coordinator and Producer, Wildlands Studies, remote Jan 2018-July 2018

- Manages and produces promotional content for social media outlets and campus presentations.
- Coordinates actions of campus representatives to encourage student involvement in Wildlands courses.

Communications and Social Media Manager, Amazon Conservation Association, remote Jan 2018-May 2018

- Integrated scientific communications from the field into newsletters, social media posts, and the annual report.
- Managed photo and video archives and produced multimedia content to promote conservation of the Amazon.

Peru Project Teaching Assistant, Wildlands Studies, Peru Sept 2017-Nov 2017

- Administered data collection exercises in Peruvian forests; led paper discussions and lectures on Amazonian biodiversity and ecology; created exams of naturalist knowledge and workshops practicing the scientific method.
- Provided advisory on scientific proposals and manuscripts; maintained healthy social dynamics of group.

Resident Naturalist, Alliance for a Sustainable Amazon, Peru June 2017-Sept 2017, Nov 2017-Dec 2017

- Initiated ongoing comparative study of herpetofauna diversity between rainforest and agricultural landscapes; performed visual/audio surveys of primates; performed multiple tree ascents to secure a macaw nest box.
- Instructed interns on field note-taking, observation and wilderness skills; provided guidance for research projects.

Digital Arts Lab Manager, Hanover, NH

January-March 2015

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

Field Manager/Canvasser, The Fund for the Public Interest

June-August 2013, June-August 2014

- For the benefit of environmental campaigns, fundraised ~\$20,000 (\$300/day, \$120 above office daily average).

RESEARCH EXPERIENCE

Biology Honors Thesis: Marsh Periwinkle Habitat Preferences, Hanover, NH

Sept 2016-June 2017

- An analysis of the grazing selection criteria and decision-making behavior of *Littoraria irrorata*.
- Composed field/lab protocols and novel experimental designs; wrote manuscript, gave public presentation, and defended to faculty committee. Received High Honors, highest possible recognition. *J. Exp. Mar. Biol. Ecol in prep.*

Louisiana Universities Marine Consortium REU Intern, Cocodrie, LA

June-August 2016

- Led investigation of foraging habits of the marsh periwinkle snail upon several salt marsh grasses and sedges.
- Wrote project proposal, gained insight from career-building workshops and presented at culminating symposium.

Research Assistant, Calsbeek Lab, Hanover, NH

January-December 2015, March-June 2016

- Measured response of *Chrysemys picta* plastron coloration to changes in downwelling ambient light.
- Collected *Lithobates sylvaticus* to analyze larval swim fitness and adult jump fitness with behavioral software.

Operation Wallacea Honduras School Expedition, Cusuco National Park and Utila Island

June-July 2011

- Surveyed carbon stock of rainforest, completed a reef ecology classroom/field course, performed reef transects.

PUBLICATIONS

Klinges, D. H., Scheffers, B. R. Forest cover increases climate isolation on mountains. (in prep for submission to *Nature Climate Change*)

Klinges, D. H., Biswas, B., Huang, Q., Connette, G., Leimgruber, P. Temporal and spatial heterogeneity of land cover change in the complex forest landscape of Myanmar. *Remote Sensing LC/LUC Southeast Asia* special issue (abstract accepted)

Klinges, D. H., Martin, C. W., Roberts, B. J. Food and Structural Quality Determine the Habitat Preferences of the Marsh Periwinkle Snail, *Littoraria irrorata*. (in prep for submission to *Journal of Experimental Marine Biology and Ecology*)

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

CONFERENCE PRESENTATIONS

Klinges, D., Biswas, S., Huang, Q., Leimgruber, P. Temporal and spatial heterogeneity of land cover change in the complex forest landscape of Myanmar. American Geophysical Union (AGU) Fall Meeting, scheduled 10-14 Dec 2018, Washington DC. (oral/poster yet to be announced).

Biswas, B., **Klinges, D.**, Connette, G., Huang, Q., Leimgruber, P. Complex forest landscapes and sociopolitical drivers of deforestation— the interplay of land-use policies, armed conflict, and human displacement in Myanmar. LC/LUC and Impacts on Environment in South/Southeast Asia. International Regional Science Meeting, 28-30 May 2018, Philippines. (oral)

Leimgruber, P., Biswas, S., Huang, Q., **Klinges, D.**, Connette, G. Complex forest landscapes and sociopolitical drivers of deforestation— the interplay of land-use policies, armed conflict, and human displacement in Myanmar. NASA LC/LUC Spring Science Team Meeting, 3-5 April 2018, Gaithersburg, MD. (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, *Strombus gigas*, in protected and open harvest zones surrounding Little Cayman Island. CTEC 12th Annual Symposium, 15 April 2017, Antioch University, Keene, NH. (oral).

Klinges, D. Plant identity and decay influence marsh periwinkle herbivory. LUMCON Annual Student Research Symposium, 12 August 2016, Cocodrie, LA. (oral).

PUBLIC OUTREACH

Smithsonian Sleepover Series Volunteer and Video Producer, Washington, DC June-September 2018

- Selected through application process to engage K-8 students at multiple museums; produced promotional videos.

Student Presentation Review Board, Lyme School, Lyme, NH April 2016, May 2017

- Reviewed Ecology presentations of 5th grade students, encouraged scientific inquiry from students.

Ecology Tutor, Hanover, NH April-May 2016

- Instructed a Dartmouth student on Ecology coursework via weekly sessions; provided exam and career advice.

Ecological Bioblitz Tour Station Leader, Marsh Billings Rockefeller Historical Park May 2016

- Guided students of grades 2-10 on ecological surveys to educate on aquatic/wetland wildlife and conservation.

Klinges, D., Halvorsen, R., and Erritouni, Y. "A Look Into Student Research on Little Cayman Island." March 2016

- Presented to a public audience of 50+ overviewing the experiences of the Dartmouth Biology Foreign Study.

SCHOLARSHIPS AND AWARDS

Dartmouth Biological Sciences Thesis: High Honors 2017

NSF REU Award (\$5500) 2016

Junior Research Scholarship, Dartmouth College (\$800) 2015

Sophomore Science Scholar, Dartmouth College (\$800) 2015

Gold Key Award for service to the school (awarded to 10% of senior class), Princeton High School 2013

Nicholas J. Arcaro Scholar-Athlete Award (awarded to one male and female per class), Princeton High School 2013

SKILLS AND CERTIFICATIONS

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

Film: Canon DSLR cameras, Adobe Suite, Final Cut Pro, DJI Mavic Pro, ImageJ

Certifications: CPR and First Aid, PADI scuba certified, FAA sUAS Remote Pilot License

Wilderness: Navigation (compass and GPS), 4WD, manual transmission

Professional Memberships: American Geophysical Union, International Society of Tropical Foresters

LEADERSHIP

Chaplain and Chair of Standards Board, *Sigma Phi Epsilon Fraternity* January 2016-March 2017

- Chapter counselor; investigated and mediated disputes; drafted house ethics policy and coordinated with alumni.

Recruitment Chair, *Sigma Phi Epsilon Fraternity* January-September 2015

- Organized 14 recruitment events, networked with 150+ potential members in 9-month rush process.

Freshmen Trips Leader, *Dartmouth Outing Club* August 2014, August 2016

- Led incoming students of various skill levels on two 3-day wilderness expeditions.

Rockefeller Management and Leadership Development Program January 2015-March 2015

- Engaged in weekly series of workshops led by Dartmouth faculty and guest speakers to develop career skills.

Interests/Athletics: D1 Men's Ultimate Frisbee, NJ Region-5 qualifier (wrestling), skiing, scuba diving, backpacking