

Kjirsten Elizabeth Coleman

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Summary

Remote sensing and spatial ecology intern at the Smithsonian Conservation Biology Institute. I have recently completed two terms in the NASA DEVELOP program following an MSc in Natural Resources Management and a BS in Biology. I am currently a master student in the EAGLE program at the University of Würzburg.

Education

Master of Science, Applied Earth Observation and Geoanalysis of the Living Environment (EAGLE)
Julius-Maximilian University of Würzburg – Würzburg, Germany (degree in progress)

Master of Science, Natural Resources Management
Norwegian University of Science and Technology – Trondheim, Norway (Sep 2019)

Thesis title: “Uncovering the Impacts of Fencing in the Mara: as assessment of vegetation and bare soil using remote sensing and stakeholder participation”

Bachelor of Science, Biology
Portland State University – Portland, Oregon (Aug 2009)

Technical Skills

- Modeling and analysis using Earth observation data (optical, LiDAR, SAR, atmospheric)
- Expertise using GIS software - ArcPro, AGOL, GEE, and QGIS
- Advanced application of R for data management, quantitative analysis, and visualizations
- Scientific study design, field sampling, and technical writing
- Team leadership, classroom instruction, and science communication
- Languages: English (native), Norwegian (B2)

Professional

Appointments

Remote Sensing and Spatial Ecology Intern
Smithsonian Conservation Biology Institute – Front Royal, Virginia (May 2022 – present)

DEVELOP National Program Intern
National Aeronautics and Space Administration (NASA)
(1) Jet Propulsion Lab – Pasadena, California (Sept – Nov 2021)
(2) Goddard Space Flight Center – Greenbelt, Maryland (Jan – Apr 2021)

Research Assistant – Ecosystem Services and Habitat Modeling
University of Illinois – Urbana-Champaign, Illinois (Apr – Aug 2021)

Geospatial Consultant
Heimdal Satellite Technologies – Oslo, Norway (Dec 2020 – Mar 2021)

Research Assistant – Remote Sensing and GIS
AfricanBioServices – Trondheim, Norway (Jul 2019 – Sep 2020)

Community Outreach – Urban Green Infrastructure
City of Portland Bureau of Environmental Services – Portland, Oregon (Jun 2010 – Feb 2011)

Field Technician – Rangeland Vegetation Assessment
Eastern Nevada Landscape Coalition – Ely, Nevada (May – Oct 2009)

Teaching Appointments	TechGyrls STEM Program Manager and Instructor Young Women's Christian Association (YWCA) Lancaster, Pennsylvania (Apr – Jul 2022)		
	Teaching Assistant – Biology Dept. Norwegian University of Science and Technology – Trondheim, Norway (Aug 2019)		
	Primary School Teacher (1) Global Educational Development Institute – Daejeon, South Korea (Mar 2015 – Mar 2017) (2) North Jeolla Provincial Office of Education – Gunsan, South Korea (Feb 2014 – Feb 2015) (3) Ulsan Metropolitan Office of Education – Ulsan, South Korea (Feb 2011 – Feb 2013)		
	Weekend Science Program Instructor Ulsan Science Center and Planetarium – Ulsan, South Korea (May – Jul 2011)		
Publications	Hunninck, L., Coleman, K. , Boman, M., O'Keefe, J. (2022) "Far from home: distance to roost decreases bat's contribution to crop pest control" <i>Global Ecology & Conservation</i> .		
	Wana, D., Smith, S.W., Coleman, K. , Speed, J. (2021) "Proximity to high densities of pastoral settlements reduces grassland regrowth in a protected tropical savannah" <i>Biotropica</i> .		
	Xu, J., Coleman, K. , Radeloff, V., Songer, M., Huang, Q. (2022) "Modeling tree biodiversity using vertical vegetation structure metrics from GEDI data at a global scale" (In review).		
Conferences	Researchers Meeting on Fencing in the Mara – Kenya Wildlife Trust – Narok, Kenya (July 2019) Title: "Causes and Effects of Fencing" – A review of the decision-making processes and policy changes that have led to increased fencing, and an impact assessment of the effects on landscape changes using remote sensing and stakeholder perspectives.		
Volunteering	<ul style="list-style-type: none"> • Trained master students with GIS (ESRI ArcPro) at NTNU in Trondheim • Contributed to development of a cooperative board game for resource management • Sea-kayak guide & naturalist in Washington state • Organized beach clean-ups in coastal South Korea • Juara Sea turtle conservation project on Tioman island in Malaysia • Crew leader for Friends of Trees in Oregon • Telemetry surveys of sage grouse and goshawk point-counting in Nevada • Amphibian egg-mass counts in urban wetlands in Oregon • Capture and marking of migratory adult and juvenile salmon • Mist-netting, measuring and banding songbirds in western Oregon • Plant functional trait measuring for speciation analysis project in central Oregon 		
References	Professional	Academic	Personal
	Dr. Louis Hunninck, Post-doctoral Fellow Department of Physical Geography Stockholm University Relation: Project supervisor louishunninck@gmail.com +47 474 43 361	Dr. Bente J. Graae, Professor Department of Biology (NTNU) Relation: Thesis supervisor bente.j.graae@ntnu.no +47 735 96 033	Dag Fergestad SINTEF Relation: Family friend in Trondheim Dag.Fergestad@sintef.no +47 958 92 992
	Dr. Qiongyu Huang, Wildlife Biologist Smithsonian National Zoo and Conservation Biology Institute Relation: Internship supervisor huangq@si.edu +1 (540) 635-6502	Dr. Thor Harald Ringsby, Professor Department of Biology (NTNU) Relation: Professor, Natural Resources Management Program Director thor.h.ringsby@ntnu.no +47 735 96 277	Fredrik Gaustad InErgeo AS Relation: Landlord in Trondheim fg@inergeo.com +47 905 79 409