Kate Keeley

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EDUCATION

UNIVERSITY OF MICHIGAN
MS in Natural Resources & Environment
Sep 2015 – April 2017 | Ann Arbor, MI
Specialized in **Environmental Policy & Planning**

UNIVERSITY OF CALIFORNIA, LOS ANGELES
BS in Ecology, Behavior, & Evolution
Sep 2011 – June 2015 | Los Angeles, California
Graduated with Departmental Honors
Minor in **Geographic Information Systems & Technologies**

COURSEWORK

Technical
Advanced GIS
Cartography
Satellite Remote Sensing & Digital Image Processing
Python for Environmental Informatics
GIS Programming & Development
Seminar on CAD
Graphic Design

Science
Environmental Change
Conservation Biology
Ecosystem Services
Field Ecology
Community Ecology
Evolution & Biodiversity
Behavioral Ecology
Calculus
Biostatistics

Education & Policy
Environmental Regulation
Natural Resources Law
Environmental Governance
Environmental Policy & Politics
Behavior & Environment
Environmental Psychology
Decision-Making Science & Theory
Leading Non-Profit Organizations
Natural Resource Conflict Management

EXPERIENCE

GIFFELS WEBSTER | GIS Specialist
February 2017 – Present | Detroit, MI
Intern: February – April | Full time: May – Present
- Geospatial data and database management, manipulation, and analysis in the ArcGIS Suite and Microsoft Excel
- Data visualization and map production through map design of high quality print and interactive web maps for public and private sector clients, as well as for internal use
- Establishing the company's GIS citizen engagement program by researching, organizing, and creating crowdsource web applications and, as a result, helped the company secure a $100,000 master plan update bid
- Leading the department in transitioning to new GIS software, ArcGIS Pro
- Promoting GIS to clients through the development and presentation of marketing materials

UNIVERSITY OF MICHIGAN, PROGRAM IN THE ENVIRONMENT | Graduate Student Mentor
July 2016 – April 2017 | Ann Arbor, MI
- Supervisor of Program in the Environment Graduate Student Instructors (GSI). Served as day-to-day manager for all new GSIs and responsible for evaluating all new GSIs
- Restructured and strengthened the Graduate Student Mentor Program by implementing the program's first centralized online learning portal

UNIVERSITY OF MICHIGAN, SCHOOL OF NATURAL RESOURCES AND ENVIRONMENT | Professional Master's Project
Jan 2016 – April 2017 | Ann Arbor, MI
- Project Title: Supporting Conservation and Decision-Making in the Northwoods – Mapping Forest Values, Services, and Threats
- Leader of a six person interdisciplinary team that created an interactive mapping tool using ArcGIS products for our client, *the Nature Conservancy*
- Experience with reviewing and synthesizing scientific literature, data collection and compilation, database management, raster data processing, visualization of environmental data, and content creation. Responsible for planning and leading team meetings, workshops, and webinars
- Represented team and presented poster at the annual *Society of American Foresters* meeting (November 2016)

UNIVERSITY OF MICHIGAN, PROGRAM IN THE ENVIRONMENT | Graduate Student Instructor
Jan 2016 – April 2017 | Ann Arbor, MI
- Instructor for three GIS courses: *ENV 463: GIS for Conservation and Management* (Winter 2016 and 2017) and *ENV 309: GIS Explorations* (Fall 2016)
- Responsible for the research, design, and development of some class curriculum, materials, and tests
- Presented lectures, graded assignments, hosted office hours, and demonstrated excellence in teaching by receiving student nominated "Outstanding Graduate Student Instructor Award"
- Topics covered included: GIS/GPS data collection, compilation, and management; data visualization and cartography; spatial analyses, including using the Network Analyst, Spatial Analyst, and Tracking Analyst ArcGIS extensions; Python programming and automation; mapping using R; georeferencing, digitizing, etc.

NATIONAL WILDLIFE FEDERATION | Intern
May 2016 – Dec 2016 | Los Angeles, CA
Developed the California chapter's education and outreach program through multiple projects:
- Sole GIS analyst developing interactive maps and high-quality maps for staff and public view, including maps used in promotional material, websites, and news coverage
- Using ArcGIS, determined best path for week-long 50+ mile hiking event based on priority stopping locations and current infrastructure layers. Digitized new feature classes and calculated distances between points

UNIVERSITY OF MICHIGAN, SCHOOL OF NATURAL RESOURCES AND ENVIRONMENT | Environmental Education Researcher
Sep 2015 – Jan 2016 | Ann Arbor, MI
- Assisted with the development, implementation, and evaluation of a life science curriculum unit on climate change in local middle schools
- Web-manager of *My Environmental Education Evaluation Resource Assistant* (MEERA). Experience with front end web development, including HTML and CSS

LOS ANGELES ZOO & BOTANICAL GARDENS | Education Specialist
Aug 2014 – July 2015 | Los Angeles, CA
- Presented zoo educational programs, including on-grounds interpretation and interacting with zoo guests on a daily basis while providing information about habitats, wildlife, plants, and conservation

CRESST (NATIONAL CENTER FOR RESEARCH ON EVALUATION, STANDARDS, AND STUDENT TESTING) | Research Assistant
July 2014 – Oct 2014 | Los Angeles, CA
- Worked directly with researchers at CRESST to research, develop, and evaluate a systems modeling intelligent tutoring tool for high school science curriculum

NATIONAL PARK SERVICE | Seasonal Interpretive Park Ranger
Summers 2012 – 2013 | Sequoia National Park, CA
- Presented talks and guided walks and provided informal interpretation to park guests in visitor centers and on trails

RESEARCH

UCLA, DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY
| Undergraduate Researcher in Dr. Blaire Van Valkenburgh's Paleobiology lab
June 2014 – June 2015 | Los Angeles, CA
Innovative GIS research project to spatially analyze Pleistocene carnivore hunting injuries. Using a skeleton image as a raster basemap, a skeleton polygon feature class was digitized; based on real bone injuries found, digitized injury point feature class. Created heat-maps of injuries point layer and analyzed number of injury points on each bone polygon.

| Undergraduate Researcher in Dr. Daniel Blumstein's Conservation Biology lab
Sep 2012 – July 2015 | Los Angeles, CA
Investigating mountain lion migratory corridor selection in urban centers, especially as it relates to extreme heat days by performing GIS and remote sensing analyses on mountain lion movement data. Experience in reviewing and synthesizing scientific literature, GIS analyses, visualizing environmental data, statistical analyses, and writing and presenting technical research papers.