AUDREY DIGNAN

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EDUCATION

University of Colorado Denver   Denver, CO
   Department of Geography and Environmental Sciences   Expected December 2018
   Master of Science in Environmental Science

University of Richmond   Richmond, VA
   Bachelor of Science in Environmental Studies, *magna cum laude*   May 2011
   Minors in Music & Latin American and Iberian Studies   GPA 3.6

School for International Training (SIT)   Zanzibar, Tanzania
   Coastal Ecology and Natural Resource Management   Fall 2009

PROFESSIONAL EXPERIENCE

Temporary Field Technician, Vegetation Team   May 2017-October 2017
National Ecological Observatory Network (NEON)   Boulder, CO
- Gathered high-quality data in the field for multiple vegetation monitoring protocols: Plant Diversity, Phenology, Aboveground Herbaceous Biomass, & Leaf Area Index (Digital Hemispherical Photography)

Teaching Assistant   August 2016-May 2017
University of Colorado Denver, Department of Geography and Environmental Science   Denver, CO
- Taught a 2-hour weekly lab for undergraduate Introduction to Environmental Science course

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RESEARCH EXPERIENCE & STUDENT PROJECTS

Master's Thesis: Resolving *Physocarpus* in the Southern Rocky Mountains   Ongoing
Advised by Dr. Leo Bruederle and Dr. Christy Briles   CU Denver
- Herbarium specimens will be georeferenced & used to construct ecological niche models for multiple species of *Physocarpus* and to investigate potential regions of hybridization

Ecological Niche Modeling of North American Habitat for *Juncus biglumis*   Fall 2017
Course: Flora of Colorado   CU Denver
- Investigated the present & future ecological niche of an arctic-alpine rush species, *Juncus biglumis*

Reducing Environmental Impact from Visitors to Rocky Mountain National Park (RMNP): A Strategic Decision Making (SDM) Approach   Fall 2017
Course: Environmental Management   CU Denver
- Used SDM to develop & evaluate alternatives to a complex & multi-attribute environmental problem

Mapping areas of cold-air pooling (CAP) in Rocky Mountain National Park (RMNP)   Spring 2017
Course: Free and Open Source Software for Geospatial Applications (FOSS4G)   CU Denver
- Used open source software to model CAP processes & identify habitat suitable for cold-adapted plants

Greater sage-grouse (*Centrocercus urophasianus*) conservation   Spring 2017
Course: Conservation Biology   CU Denver
- Evaluated conservation status of Greater sage-grouse in the context of American energy production

American pika (*Ochotona princeps*) habitat assessment for Boulder County, CO   Fall 2016
Course: Introduction to GIS   CU Denver

- Constructed ranked habitat model for American pika, an alpine zone indicator species for climate change

Late-Holocene impacts of disturbance from fire and mining on Lily Pond, CO   Fall 2016
Course: Mountain Biogeography   CU Denver
- Analyzed suite of paleoecological data products from lake sediment core in formal research paper format

Colonial Historical National Park Natural Resource Condition Assessment   Spring 2011
Student Internship   University of Richmond
- Created maps displaying vegetation, soil types, & land-use classifications for land management analyses

The Consequences of a Nature-Deficient Childhood   Spring 2011
Senior Thesis Research, advised by Dr. Mary Finley-Brook   University of Richmond
- Qualitative data analysis of physical & psychological consequences of nature-deficient childhood

Modeling the habitat distribution of *Mimulus gemmiparus* using MaxEnt   Spring 2011
Course: Environmental Gradients   University of Richmond
- Displayed suitability heatmap of Rocky Mountain monkey flower (*Mimulus gemmiparus*) habitat

Land of Hidden Treasure: A Vegetation Study of Jozani's Coral Rag Forest   Fall 2009
Independent Study Project, School for International Training (SIT)   Zanzibar, Tanzania
- Conducted a vegetation study of tropical dry forest within Jozani-Chwaka Bay National Forest

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COMPUTER PROGRAMS & LANGUAGES

Geospatial: ArcGIS, QGIS, MaxEnt, Google Earth, Spatial SQL, PostgreSQL, GRASS
Research & Data Analysis: R, RStudio, C2, Zotero, InkScape
Other: Word, Excel, PowerPoint, Outlook, OneNote, Google Docs, Google Sheets, Google Slides

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AWARDS & AFFILIATIONS

Gamma Theta Upsilon International Geography Honor Society, CU Denver   2017
Richmond Artist Scholar, University of Richmond   2007
  Full scholarship awarded for academic merit & musicianship
Omicron Delta Kappa National Leadership Honors Society, Epsilon Circle   2010
Phi Eta Sigma Honor Society, University of Richmond Chapter   2008

VOLUNTEER EXPERIENCE

Volunteers for Outdoor Colorado (VOC): Construction & maintenance of hiking and multi-use trails
Jefferson County Open Space, *Park Host*: Provided information to park visitors
Seven Step Cares, *Team Member*: Participated in monthly volunteer events

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ADDITIONAL PROFESSIONAL EXPERIENCE

Senior Recruiter, *Seven Step RPO*   July 2013-July 2016
Splash Camp Coordinator, *Keystone Science School*   Summer 2012
Specialty Programs Coordinator, *Keystone Science School*   September 2011-May 2012
Summer Camp Counselor, *Keystone Science School*   Summers 2010, 2011

OTHER RELEVANT EXPERIENCE

John Muir Trail (JMT): Through-hiked 220 miles from Yosemite to Mount Whitney (July 2016)
Outward Bound: Completed 8-day backpacking program in North Carolina (2006) and 14-day sea
    kayaking & backpacking program in Washington (2007)