

Hunter Quintal

GRADUATE RESEARCH ASSISTANT

University of North Carolina at Chapel Hill

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I am a graduate student in the Department of Earth, Marine and Environmental Sciences applying for the Davis Library Research Hub Graduate Assistant position. I have been applying skills in GIS to multiple projects over my undergraduate (senior thesis), professional (private consulting), and now graduate (model development) experience. I have undergraduate coursework in ArcGIS for Desktop and graduate coursework in QGIS, with familiarity in ArcGIS Online and R. I also have coursework in the programming language R (biostatistics and geostatistics) and am currently learning python.

Education

M.Sc. of Geology

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, ADVISOR DR. ANTONIA SEBASTIAN

Chapel Hill, NC

2020 ->

- Thesis 'Understanding the Flood Mitigation Benefits of Buyouts: A Hydrologic Assessment of Property Acquisition in North Carolina Watersheds'

B.Sc. of Geology-Biology

BROWN UNIVERSITY, THESIS ADVISOR DR. JAMES HEAD III

Providence, RI

2014 -> 2018

- Thesis 'The Onyx River, McMurdo Dry Valleys: Exploring Antarctica as a Mars Analogue'

Appointments

Graduate Research Assistant

DEPARTMENT OF EARTH, MARINE AND ENVIRONMENTAL SCIENCE

Chapel Hill, NC

July 2020 -> Present

- As a graduate student in the geosciences, I routinely manipulate GIS data between multiple softwares including online directories, state agencies, ArcGIS Online, R, and three separate models. I have experience working with other students through coursework and in the laboratory setting, and I am currently training myself on data visualization with python out of self-interest.

Hydrogeologist I

WSP USA Inc.

Herndon, VA

July 2018 -> June 2020

- I worked on multiple GIS data visualization professionally. I maintained and updated legal maps of field sites containing information including groundwater plumes, potentiometric surface, drilling sites, and relevant geochemical information associated with groundwater wells.

Teaching Assistant

DEPARTMENT OF EARTH, ENVIRONMENTAL AND PLANETARY SCIENCE

Providence, RI

February 2016 -> May 2016

- I worked as a teaching assistant for one semester. I consider this experience similar to customer service, as I was responsible for student comprehension and satisfaction for which I was ultimately graded by the students at the end of the semester.

Research Assistant

DEPARTMENT OF EARTH, ENVIRONMENTAL AND PLANETARY SCIENCE

Providence, RI

October 2014 -> May 2018

- As an undergraduate student, I spent four years using ArcGIS for Desktop to characterize fluvial environments in Antarctica and on Mars. The results of this geospatial analysis were presented at three conferences and were included in my senior thesis.

Technical Skills

Programming Languages

R (INTERMEDIATE), PYTHON (INTRODUCTORY)

Markup Languages

L^AT_EX (INTRODUCTORY), R^MA^RK^DO^WN (INTRODUCTORY)

Geographic Information Systems

ARC^GIS FOR ^DE^SK^TO^P (INTERMEDIATE), ARC^GIS ^ON^LI^NE (INTRODUCTORY), R (INTRODUCTORY), Q^GI^S (INTERMEDIATE)

Microsoft Office

EX^CEL (INTERMEDIATE), O^UT^LO^OK, P^OW^ER^PO^IN^T, W^OR^D

Adobe Suite

ILLUSTRATOR, P^RE^MI^ER

Related Products

Report(s):

PRESERVATION GREEN LAB 'UNTAPPED POTENTIAL: STRATEGIES FOR REVITALIZATION AND REUSE.' PRESERVATION LEADERSHIP FORUM, NATIONAL TRUST FOR HISTORIC PRESERVATION.

Washington, DC

2017

Abstract(s):

QUINTAL, H. C., III, J. W. H., PALUMBO, A. M., & DICKSON, J. ONYX RIVER, MCMURDO DRY VALLEYS: EXPLORING ANTARCTICA AS A MARS ANALOGUE.

Brown University

2019

Poster(s):

THE ONYX RIVER, MCMURDO DRY VALLEYS: EXPLORING ANTARCTICA AS A MARS ANALOGUE

2018

- 49th Lunar and Planetary Science Conference (Houston, TX); The Eighth Moscow Solar System Symposium (Moscow, RU); Brown Summer Research Symposium (Providence, RI)

Various

Leadership

Vice President

SCIENCE POLICY ADVOCACY GROUP

Chapel Hill, NC

2021

Treasurer Co-Chair

GEOLOGY CLUB

Chapel Hill, NC

2021

Young Alumni Co-Chair

BROWN CLUB OF DC

Washington, DC

2018

Co-Chair

DIVERSITY AND INCLUSIVITY PLAN

Providence, RI

2018

President Co-Chair

DEPARTMENTAL UNDERGRADUATE GROUP

Providence, RI

2017

Head of Fundraising

DEPARTMENTAL UNDERGRADUATE GROUP

Providence, RI

2017

- Raised \$15,000 for Undergraduate Departmental Field Trips to Death Valley and Big Bend National Parks

Community Engagement and Service

Visiting Scientist

NC SCIENCE FESTIVAL'S SCIMATCH PROGRAM

Chapel Hill, NC

2021

Volunteer

ENO RIVER ASSOCIATION (IWALK THE ENO SUMMER CAMP, ENOFEST ENVIRONMENTAL EDUCATION FOR KIDS)

Durham, NC

2021

Host

NORTH CAROLINA SCIENCE AND ENGINEERING FAIR (ELEMENTARY AND JUNIOR DIVISIONS)

Raleigh, NC

2021

Volunteer Coordinator

POTOMAC CONSERVANCY

Washington, DC

2018

Judge

TECHNOLOGY STUDENT ASSOCIATION TESTS OF ENGINEERING APTITUDE, MATHEMATICS, AND SCIENCE

Herndon, VA

2019