Jonathan G. Bridgeman
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EDUCATION

M.S., Earth and Environmental Science May 2018
Tulane University, New Orleans, LA
Thesis: "Understanding Mississippi Delta Subsidence through Stratigraphic and Geotechnical Analysis of a Continuous Holocene Core at a Subsidence Superstation"
GPA: 3.81

B.A., Earth and Environmental Science June 2014
University of California, Los Angeles, CA

EXPERIENCE

Geologistics Tech Intern June 2018-present
UNAVCO Boulder, CO

- Created and implemented workflows for data acquisition units (remote control planes, drones) and processed imagery for Structure-from-Motion
- Surveyed with terrestrial LiDAR and Trimble RTK systems
- Conducted drone aerial surveys and attained a FAA Drone Pilot License
- Built and repaired custom GPS stations for long term deployment on projects which monitor continental plate motion, fault movement, and volcanic activity

Coastal Restoration Intern May 2017- June 2018
Louisiana Coastal Protection and Restoration Authority New Orleans, LA

- Conducted restoration site visits and mapped wetland growth using Trimble GPS units
- Monitored project data (water, soil, and vegetation) for quality and overall progress
- Wrote short-form project reports from technical documents for local and state officials

Graduate Research Assistant January 2016- June 2018
Tulane University, Department of Earth and Environmental Science New Orleans, LA

- Designed and safely led a drilling field exploration campaign across the Mississippi River Delta to better understand delta plain evolution and the underlying sediment
- Sampled, identified, and logged soil cores (USCS and USDA) and vegetation samples
- Analyzed soil (mineral and organic) for soil index and geotechnical properties
- Managed laboratory equipment and chemicals, completing safety and compliance inspections
- Collaborated with geophysicists, engineers, and geologists to connect geologic rates of land subsidence with modern rates in the Mississippi River Delta
- Presented research and the implications for coastal resilience to local stakeholders and state officials, as well as at regional and national conferences in 2016 and 2017

Field Assistant May 2015 – June 2018
Tulane University New Orleans, LA

- Conducted surface and groundwater sampling, soil monitoring, and vegetation surveys
- Collected and prepared geologic dating samples that were highly prone to contamination
- Repaired and monitored GPS and fiberoptic strainmeter electronics in the field
- Analyzed seismic waves and interpreted regional subsurface and crustal density

Teaching Assistant August 2015- December 2015
Tulane University, Department of Earth and Environmental Science New Orleans, LA

- Taught Earth as a Living Planet laboratory sessions to 50 undergraduate students, connecting the actions of everyday life to environmental impact, sea level rise, and the health of our planet

Research Assistant May 2014-June 2015
University of California, Los Angeles, SPIN Lab Los Angeles, CA

- Fabricated a 2m tall rapidly rotating fluid convection experiment (NoMag)
- Designed and installed a video recording system for NoMag
- Created educational outreach videos of the lab's fluid dynamics experiments explaining geophysics at both technical and non-technical levels (Youtube: *Record Player Fluid Dynamics*)

Wastewater Intern June 2013-September 2013
Montecito Sanitation District Santa Barbara, CA

- Created a public awareness campaign and outreach material for Fats, Oils, and Grease
- Analyzed plant waste data to find harmful bacteria growth within the wastewater system

Environmental Site Assessment Intern June 2012-September 2012
AEI Consultants Los Angeles, CA

- Researched and prepared historical photographs and UST details for Phase 1 reports
- Submitted FOIA requests and retrieved site information for environmental site assessments
- Compiled FOIA request information for West Coast agencies into an online database

SKILLS AND TRAINING

Fieldwork: Proficient in soil sampling (hand auger, geoprobe, and vibracore), mineral and organic sediment description and identification (USDA and USCS), surface water sampling techniques, Trimble RTK systems, familiar with identification of salt and freshwater wetland plants, TLS (LiDAR) systems including Riegl VZ-400 and Leica Scan Station C10

Laboratory: Proficient in Atterberg Limits and 1-D consolidation testing, soil index properties, bulk density, water and organic content testing, stable isotope sample preparation, radiocarbon and optically stimulated luminescence sample preparation, Malvern Mastersizer 3000 grain-size analysis, familiar with Geotek Core Logger

Computer Skills: Proficient in Matlab, Adobe Creative Suite, Google Earth, Microsoft Office, familiar with ArcGIS, ENVI, Petrel, Kingdom, Python, R

LEADERSHIP AND COMMUNITY SERVICE

Department Student-Faculty Liaison — *Graduate Student Liaison*, 2017-2018
New Orleans Geological Society Super Science Saturday — *Student Volunteer*, 2016-2018
American Association of Petroleum Geologists at Tulane — *Vice President*, 2016-2017
Boys at Tulane in STEM Programs — *Student Volunteer*, 2016-2017
Afterschool activities at Castle Rock Community Church — *Instructor*, 2016-2017

LICENSES, AWARDS, AND SCHOLARSHIPS

FAA sUAS (Drone) Pilot License, Four-year Letterman (2010-2014), Student Athlete Leadership Award (2014), Don Shepard Postgraduate Scholarship (2014), Northwestern Mutual Inspiring Potential Scholarship (2014), Coastal Science Assistantship Program Grant Recipient (2016)