

Education

- University of Georgia**, Athens, GA Fall 2017 – Spring 2019
Master of Science in Geology (geophysics & tectonics) | Advisor: Dr. Rob Hawman
Thesis: *Tectonic implications of the Triassic/Jurassic rift basins beneath the southeastern Atlantic coastal plain*
- University of Wyoming**, Laramie, Wyoming Fall 2016
Non-Degree Geology Graduate Student
- Washington & Lee University**, Lexington, VA 2012 -2016
Bachelor of Science in Geology | Advisor: Dr. Chris Connors
Thesis: *Velocity modeling and earth modeling on the Chukchi platform, Chukchi shelf, Alaska*

Awards

Black Mesa Scholarship (Oklahoma City Community Foundation) for promise in commerce and entrepreneurship | Chickasaw Nation Scholarship (2012 – 2018) | Dean's List (Winter 2013) | Noble Scholar (2012) |

Publications & Presentations

- Pritchard, E. H., **A. G. Clements**, B. T. Odom, C. D. Connors, and D. W. Houseknecht, 2016, Cretaceous oblique-slip reactivation of late Paleozoic rift-related faults on the Chukchi platform, southern Chukchi shelf, Alaska (abstract with 2 posters): AAPG Annual Conference and Convention, Calgary, Alberta, June 19-22, 2016.
- Clements, A. G.**, 2016, Velocity modeling and earth modeling on the Chukchi platform, Chukchi shelf, Alaska (Thesis): Washington and Lee University, Lexington, Virginia, p. 1-58.

Internal Publications & Presentations

- Clements, A. G.**, 2016, Initiation and deactivation of mid-ocean ridges: how does it happen? **(Lecture)**
- Clements, A. G.**, 2016, Velocity modeling and earth modeling on the Chukchi platform, Chukchi shelf, Alaska **(Oral Thesis Defense)**.
- Clements, A. G.**, J. M. Beninati, and R. L. Tassoni, 2015, The metamorphic mineralogy of Sifnos, Greece **(Poster)**.
- Clements, A. G.**, T. J. Waggoner, and S. M. Ball, 2015, Potential sites for the Washington & Lee University solar panel array **(Poster)**.
- Clements, A. G.**, 2014, Analysis of Moores Creek outflow's impact on Woods Creek of Rockbridge County, Virginia: Washington and Lee University, Lexington, Virginia, p. 1-7.
- Clements, A. G.**, 2014, The role of bedrock composition on conductivity of the Maury River and its tributaries **(Poster)**.

Relevant Geoscience Coursework

Graduate

Advanced Topics in Seismology	Exploration Geophysics
Reflection Seismology	Environmental Remote Sensing
Data Analysis in Geosciences	Ocean Tectonics
Master's Research	Imperial Barrel Award

Undergraduate

Structural Geology & Tectonics	Petroleum Geology & Geophysics
Sedimentology & Stratigraphy	Regional Geology of Greece
Field Mapping in the Appalachians	Introductory Geophysics
GIS & Remote Sensing	Geomorphology
Environmental Field Methods	Senior Thesis Research
Global Climate Change	Earth Materials I: Rocks & Minerals
Computer Applications in Geology	General Geology with Field Emphasis
Fundamentals of Biology	Sequence Stratigraphy Short Course for Graduate Students

Applied Statistics
Physics I & II
Calculus I-III

General Chemistry & Lab
Information Technology Literacy
Differential Equations

Relevant Business Coursework

Managerial Accounting
Microeconomics
Statistics

Financial Accounting
Macroeconomics
Financial Modeling & Corporate Valuation

Geoscience Skills

Relevant Field & Lab Experience

- Weekly field labs in most geology courses exploring a multitude of geological phenomena in Rockbridge County, VA and the Blue Ridge Mountains
- **Petroleum Geology:** used industry software (Petrel, Kingdom, and GOCAD) and data to analyze geologic features, deposits, and basins that are relevant to petroleum exploration and production; contoured, correlated, interpreted logs, and interpreted seismic datasets on paper and computer
- **Geologic Field Methods:** constructed geologic maps and cross sections in southeastern Wyoming and the south-central Blue Ridge, Valley and Ridge, and Appalachian Plateau geologic provinces
- **Environmental Field Methods:** daily field trips collecting qualitative field observations and quantitative measurements of groundwater, surface water, soil, and air employing standard methods, equipment, and tools used in environmental field investigations
- **Sedimentology & Stratigraphy:** constructed and correlated stratigraphic columns; conducted field and laboratory analyses of sedimentary rocks; employed basic field stratigraphy techniques for several projects and mock research proposals
- **Geophysical field equipment experience:** total station land surveying, differential GPS, refraction seismology, UAV aerial photogrammetry, electrical resistivity, gravity and magnetics; acquired, processed, modeled, and interpreted data
- **Regional Geology of Greece:** daily field trips across Crete and the Cyclades observing recent volcanism, metamorphic core complexes, and nappe sequences
- **SEM-EDS:** multiple projects evaluating chemical composition of igneous, metamorphic, and sedimentary rocks
- **XRD:** mineral identification projects
- **Thin section optical microscopy:** multiple projects in mineralogy and petrology

Computer Experience

- **ArcGIS:** modeling, mapping, digitization, georectifying, spatial analysis, database management, and remote sensing
- **IHS Kingdom Suite:** reflection seismic interpretation, well-log correlations, mapping, and velocity modeling
- **Paradigm GOCAD:** 3D structural modeling, interpretation, and coding in GOCAD script
- Global Mapper, MATLAB, GPS Pathfinder, Agisoft Photoscan, Adobe Creative Suite/Cloud, Seisimager/2D, Res2DInv, GM-SYS, OpendTect, Python, R statistical package, Petrel, ENVI, JWEEED, and full Microsoft Office Suite

Writing & Communication

- Extensive experience giving oral presentations, preparing and presenting research posters, and writing technical reports

Professional Experiences

Graduate Teaching Assistant, University of Georgia Aug. 2017- Present
Leading over 20 undergraduates in two lab sections a semester of GEOL 1121: Earth Processes & Environments;
Geology tutor at the Rankin Smith, Sr. Student-Athlete Academic Center

GIS Contractor, Farwide Technologies Feb. 2017- July 2017
Independently constructed hunting zone shapefiles for 33 species in 9 states and designed map overlays from data personally located and acquired from various public sources

Geology Research Assistant, University of Wyoming, *Laramie, WY* Sept. 2016 – Jan. 2017
Structural petrology research on the formation of gabbros

Office Assistant, Greystone Environmental Services, *Oklahoma City, OK* June 2016 – Aug. 2016
Wrote NEPA Environmental Assessment reports and performed database management

Geology Research Assistant, Washington & Lee University, *Lexington, VA* June 2015 – May 2016
Interpreted 2D reflection seismic data using Kingdom Suite, built 3D earth model from interpreted seismic data using GOCAD, designed and developed a geospatial database of Appalachian igneous intrusions using ArcGIS

Leadership & Extracurricular Experience

Imperial Barrel Award Team Captain, University of Georgia Aug. 2017 – Present
Evaluating a basin's petroleum potential by defining key plays, petroleum systems, leads/prospects, and risks using regional seismic and well datasets to make recommendations based on technical and economic conditions

Vice-President, American Association of Petroleum Geologists, *University of Wyoming* Aug. 2016 – May 2017
Responsible for recruiting new members and coordinating group meetings and events

Secretary, American Association of Petroleum Geologists, *Washington & Lee University* 2013 - 2016
Oversaw communications, planning, and scheduling of meetings and lectures

Oklahoma Delegation Political Analyst, 2016 Mock Convention, *Washington & Lee University* 2014 – 2016
Researched and accurately predicted the OK Republican primary using local and state-wide polling data; contacted and managed communications with knowledgeable academics, lobbyists, and political figures; directed communications with local business owners to rent 56 trailers for the delegation parade

Outside Interests: bagpiping, running, model railroading, backpacking, fishing, horsemanship, and history

Affiliations

American Association of Petroleum Geologists
American Institute of Professional Geologists
Geological Society of America
Phi Kappa Psi Fraternity

Citizenship

United States of America
Chickasaw Nation