

David W. Farris

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Geoscientist

Summary of Scientific Skills and Qualifications:

- * >15 years experience conducting geologic, geophysical, and geochemical research
- * Quantitative /statistical data analysis and presentation to general and technical audiences
- * 17 peer reviewed publications, 43 conference presentations, 18 invited lectures
- * Produced and published 17 geologic maps in a wide variety of geologic environments
- * Conducted extensive geologic field work throughout the Americas and the Middle East (Alaska, California, Washington, Colorado, New Mexico, Minnesota, Alabama, Virginia, Panama, Colombia, Saudi Arabia)
- * Geophysical techniques used: Gravity, Magnetism, Seismic, Resistivity, Differential GPS and drone base geodetic surveys
- * Measured over 1500 gravity and differential GPS points
- * Processed gravity data and constructed physically based models of sedimentary basins, faults and igneous structures constrained by all available data sets (surface geology, drill cores, seismic, magnetism...)
- * Interpretation and analysis of remote sensing imagery
- * Polarized light microscopy: Thin section analysis of geologic samples
- * Analysis and modeling of geochemical samples: Major, trace and isotopic data sets
- * Geochemical techniques used: SEM-EDS/WDS, XRF, ICP-MS, LA-ICP-MS, INAA, TIMS
- * Geochronologic techniques used: U-Pb zircon for igneous and detrital samples, Ar-Ar, U-Th/He
- * Software skills: Microsoft Word, Excel, PowerPoint, Illustrator, Photoshop, Various GIS software packages including: ArcGIS (ESRI), GRASS GIS (open source) and Global Mapper, Data Analysis and scientific programming packages such as R and Matlab, Various geophysical software programs for the analysis of geodetic, gravity and seismic data.

Employment

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| 2013-2018 | Field Camp Instructor and Adjunct Professor, Florida State University |
| 2017-2018 | Visiting Assistant Professor, Department of Geology, Washington and Lee University, Lexington, VA |
| 2009-2017 | Assistant Professor, Department of Earth, Ocean & Atmospheric Science, Florida State University, Tallahassee, FL |
| 2008 | Post-doctoral fellow, Geological Sciences, Smithsonian Tropical Research Institute, Panama City, Panama |
| 2007 | Lecturer at California State University, Los Angeles, CA |

Education:

B.A. 2000, Geology, Macalester College, St. Paul, MN

Ph.D. 2006, Geological Sciences, University of Southern California, Los Angeles, CA

Professional Experience:

- *Directed 9 Masters theses, committee member for 12 additional graduate projects
(Students placed into: Army Corp of Engineers, Florida Geologic Survey, Florida Dept. of Environmental Protection, Turkish National Petroleum Company, and many Ph.D. programs)
- *Managed a research group with up to 8 graduate students working on separate projects
- *Taught 16 different undergraduate to graduate courses to over 1000 total students
- *Wrote and submitted 6 National Science Foundation grants
- *Served as a reviewer for 12 different scientific journals and funding agencies
- *Served on faculty search committees for sedimentary and geophysics hires (FSU)
- * Taught the following undergraduate and graduate courses at multiple institutions:
 - Washington and Lee University (2017-2018):**
 - Introductory Geology (GEOL-100) to 20 students
 - Field Geophysics (GEOL-275): This project based course introduced students to geodetic, seismic, resistivity, gravity and magnetic geophysical techniques.
 - Florida State University (2009–2018):**
 - Dynamic Earth (GLY-1000): Introductory course (100-200 students)
 - Physical Geology (GLY-2010): Majors introductory course (30-40 students)
 - Geology Field Camp (GLY-4790): Field based course taught in Taos, New Mexico (15-30 students)
 - Magmatic Arcs seminar (GLY-5931): graduate course (10-15 students)
 - Tectonics (GLY-5425): graduate course (5-15 students)
 - Introduction to Geophysics (GLY-5455/4451): Cross-listed graduate and undergraduate course (5-15 students)

Selected Scientific Publications:

(see google scholar for more details: >780 citations)

https://scholar.google.com/citations?user=HgA_en0AAAAJ&hl=en

- Farris, D.W., Cardona, A., Montes, C., Foster, D., & Jaramillo, C. (2017). Magmatic evolution of Panama Canal volcanic rocks: A record of arc processes and tectonic change. *PloS one*, 12(5), p.e0176010.
- Farris, D. W., Jaramillo, C., Bayona, G., Restrepo, S. A., Montes, C., Cardona, A., Mora, A., Speakman, R. J., Glasscock, M. D., & Valencia, V. (2011). Fracturing of the Panamanian Isthmus during initial collision with South America. *Geology*, 39, no. 11, 1007–1010. doi:10.1130/G32237.1
- Farris, D. W. (2010). Tectonic and petrologic evolution of the Kodiak batholith and the trenchward belt, Kodiak Island, AK: Contact fault juxtaposition? *Journal of Geophysical Research, Solid Earth*, 115, B07208, 29. doi:10.1029/2009JB006434
- Farris, D. W., & Paterson, S. R. (2009). Subduction of a segmented ridge along a curved continental margin: Variations between the western and eastern Sanak-Baranof belt, southern Alaska. *Tectonophysics*, 464, 100-117.
- Farris, D. W., Haeussler, P., Friedman, R., Paterson, S. R., Saltus, R. W., & Ayuso, R. (2006). Emplacement of the Kodiak batholith: A consequence of slab-window migration. *Geological Society of America Bulletin*, 118, no. 11/12, 1360-1376.