

CURRICULUM VITAE

Dr. MEGAN E. FLANSBURG

Visiting Assistant Professor (starting Asst. Prof. in July '24)

Geosciences Department

Oberlin College and Conservatory

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Office: Carnegie 407

EDUCATION

- 2018-2022 **Ph.D.**, Geological Sciences
The University of Texas at Austin, GPA 3.98
Advisor: Daniel F. Stockli
Committee: Richard A. Ketcham, Sharon Mosher, John S. Singleton
(Colorado State Univ.), Michael L. Wells (Univ. of Nevada-Las Vegas)
- 2016-2018 **M.S.**, Geological Sciences
The University of Texas at Austin, GPA 3.95
Advisor: Daniel F. Stockli
Committee: Whitney M. Behr, Konstantinos Soukis (University of Athens)
- 2011-2015 **B.S.**, Geology (*High Honors*)
Secondary Major: Environmental Science & Policy
College of William & Mary, GPA 3.82, *Summa cum Laude*
Advisor: Christopher M. Bailey
Committee: Brent E. Owens, Douglas A. DeBerry
External NSF-REU Supervisor: Calvin F. Miller (Vanderbilt Univ.)

RESEARCH INTERESTS

Multi-scale structural geology and tectonics, petrochronology, geochronology and thermochronology, accessible field geology and field teaching, metamorphic core complexes, diffuse plate boundaries, brittle-ductile transition and mid-crustal/mylonitic fabrics, volcanism and supereruptions, continental rifting, science education and public outreach, inclusive classrooms

Regions: North American Cordillera and Basin & Range, Eastern Mediterranean/Greek Cyclades, Central Appalachian Orogen, Eastern Siberia/Verkhoyansk

AWARDS and FELLOWSHIPS

National/International

- 2014 Austin A. Sartin Best Poster Award, GSA National Meeting SGE Undergraduate Poster Session (\$150)

Institutional

- 2021 Outstanding TA Award, Jackson School of Geosciences, UT-Austin
2020 Python in Geoscience Research Project Winner, GEO 391 Fall 2020, UT-Austin

- 2020 W.R. Muehlberger Fellowship in Structural Geology and Tectonics, Jackson School of Geosciences, UT-Austin (~\$16,000)
- 2016 Jackson School Early Recruitment Fellowship, UT-Austin (\$36,000)
- 2015 W&M Alumni Association Geology Prize (\$250)
- 2015 Departmental High Honors, W&M—Senior Honors Thesis and Defense
- 2012 Regional Field Geology Scholarship (\$300)

GRANTS and PROPOSALS

PI = Principle Investigator

National/International

In-Prep for NSF—Tectonics:

- Late Cretaceous to Eocene Tectonics of the Maria Fold-and-Thrust Belt Region: Transition from Contraction to Syn-Orogenic Extension in the Cordilleran Hinterland
(**Co-PI** with Dr. Nikki Seymour at Occidental College)
- An East-West Range in the North-South Laramide Belt: Timing, Rate, and Geometry of the Uinta Mountains Uplift, Utah, USA (**PI**)

- 2021 Zeiss/Geological Society of America Research Grant—*applied, not awarded*
- 2020 Mineralogical Society of America Research Grant—*applied, not awarded*
- 2019 Geological Society of America Graduate Research Grant (\$1,980)
- 2018 NSF Graduate Research Fellowship Program—*applied, not awarded*
- 2017 Geological Society of America Graduate Research Grant (\$1,325)
- 2015 Geological Society of America Student Travel Award (\$250)

Institutional

- 2023 Grant-in-Aid, Oberlin College (\$3,850)
 - 2023 Summer Student Assistantship Supplement, Oberlin College (\$1,000)
 - 2021 Jackson School Analytical Funds, UT-Austin (\$450)
 - 2019 Jackson School Grant-Matching Award, UT-Austin (\$1,000)
 - 2017 Jackson School Off-Campus Research Award, UT-Austin (\$1,635)
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Teaching Experience

Institution	Position	Course	Term
Oberlin College	Assistant Professor	GEOS 206 (Earth's Interior)	Fall '24
		GEOS 340 (Structural Geology)	Spring '25
		GEOS 126 (Earth Time, module)	
College of William & Mary	Adjunct Instructor	GEOL 310 (Regional Field Geology – Colorado Plateau and Basin & Range)	May/June '23
Oberlin College	Visiting Assistant Professor	GEOS 121 (Geology in Our National Parks, 2 sections)	Spring '24
		GEOS 206 (Earth's Interior)	Fall '23
		GEOL 120 Lab Section (Earth's Environments)	
		GEOS 121 (Geology in Our National Parks)	
		GEOS 340 (Structural Geology)	Spring '23
		GEOS 126 (Earth Time, module)	
The University of Texas at Austin	Graduate Teaching Assistant	GEOS 206 (Earth's Interior)	Fall '22
		GEOS 121 (Geology in Our National Parks)	Spring '19
		GEO 428 (Structural Geology)	
		GEO 660A (Geologic Field Camp)	
		GEO 428 (Structural Geology)	
GEO 660B (Geologic Field Camp)			
College of William & Mary	Field Teaching Assistant	GEOL 310 (Regional Field Geology – West TX and Big Bend)	May '18
		GEOL 310 (Regional Field Geology – Colorado Plateau)	May/June '16
	Geology Research Fellow (TA)	GEOL 323 (Earth Structure and Dynamics)	Spring '16
		GEOL 311 (Field Methods)	Fall '15
		COLL 100 (Weather, Climate, and Change)	

Other Classroom Experience:

<i>Course Enhancement Developer, OnRamps-Geoscience, UT-Austin</i>	Spring 2020
<i>Grader, OnRamps-Geoscience, UT-Austin</i>	2018-2019
<i>EdShed Intern, Jamestown Rediscovery, Jamestown National Historic Park</i>	Fall 2015
<i>Undergraduate Teaching Aide, GEOL 160 Intro Geology Lab, W&M</i>	2013-2016
<i>Student Grader, Dept. of Geology Intro Courses, W&M</i>	2012-2014
<i>Student Teacher, Geology on Wheels, Williamsburg (VA) area K-8 classrooms</i>	2013-2015

Mentorship

<i>PhD Students:</i>	<i>Masters Students:</i>	<i>Undergraduate Students:</i>	<i>UTChron</i>	<i>Lab</i>
Max Ehrenfels (UT-Austin)	Clara Brennan (UT-Austin)	Grace Burns (Oberlin)	Vika Ershova	St.
<u>Laboratory Mentorship (UT-Austin):</u>	Emily Hinshaw (UT-Austin)	Maya Ortiz (UT-Austin)	(Univ. Petersburg, RU)	
Ethan Conrad	Sam Robbins (UT-Austin)	Stephanie Garcia (through GeoFORCE, UT-Austin))	Elijah Turner	
Sandra Juarez		Jacoup Roiz (through GeoFORCE, UT-Austin)	(UNLV)	
Cat Ross		<u>Laboratory Mentorship:</u>	Trevor Waldien	
Carolyn Tewksbury		Darien Florez (UT-Austin)	(UC-D)	

Professional & Research Experience

Visiting Assistant Professor, Oberlin College July 2022-Present

- Teaching focus on structural geology, tectonics, geochronology, and introductory level (national parks)
- Designed curriculums for GEOS 121 and 126, redesigned curriculums for GEOS 206 and 340; individually organized and led field trips to Harpers Ferry (WV/MD Blue Ridge) and Cuyahoga Valley National Park.
- Developing EBSD detector workflow on Tescan Vega 3 SEM

Doctoral Research, The University of Texas at Austin Sept 2018-Aug 2022

- Integrate multi-scale structural geology, multi-mineral geo- and thermo chronology (what I call “structural petrochronology”), and petrology to differentiate magmatism and kinematically and directionally similar deformation in complex regions with multi- or poly-phase tectonic histories (Flansburg and Stockli, 2023, *Geosphere*)
- Field locations: California and Arizona—southern Basin & Range (U.S.); Ios Island—southern Cyclades (Greece)
- Methods: SEM-mounted EBSD; microstructural and petrographic characterization; field observation and outcrop mapping; LA-ICP-MS U-Pb geo/thermochronology (zircon, apatite, garnet); LA-ICP-MS thin section in-situ petrochronology (titanite, apatite); LA-ICP-MS trace elemental analyses (apatite, zircon); (U-Th)/He low-temp thermochronology

(quadrupole-MS to measure degassed He, HF-HNO₃-HCL dissolution of zircon, Solution-ICP-MS to measure parent nuclides)

- Collaborations: Dr. John Singleton (Colorado State Univ.) on Basin & Range; Dr. Kostis Soukis (National and Kapodistrian Univ. of Athens) on Cyclades
- Presentations: 2019 National GSA, 2020/21 VirtualThermo, 2021 GSA Cordillera, 2021 Thermo, 2021 GSA Connects, 2021 AGU Fall Meeting, 2022 GSA Cordillera-Rocky Mtn, 2022 Doctoral Defense, 2023 GSA Penrose

Graduate Research Assistant, The University of Texas at Austin

Aug 2016-Aug 2022

- When funded as RA at UTChron (PI: Stockli):
- Assisted in mineral separation and in UTChron lab procedure for contract (e.g. Apache, Chevron), undergraduate, and visitor samples
- Mineral Separation Student Supervisor (2017-2019): Trained new graduate students and undergraduate students on laboratory procedure and safety

Masters Research, The University of Texas at Austin

Sept 2016-Aug 2018

- Utilized bedrock and detrital zircon U-Pb geochronology to describe the late Paleozoic-early Mesozoic magmatic and tectonic evolution of the Cycladic Basement exposed on Ios Island, southern Cyclades, Greece (Flansburg et al., 2019, *Tectonics*)
- Methods: LA-ICP-MS U-Pb geochronology (magmatic and detrital zircon); field observation and mapping; metamorphic assemblage and petrographic characterization
- Collaboration: Dr. Kostis Soukis (National and Kapodistrian Univ. of Athens)
- Presentations: 2017 National GSA, 2017 AGU Fall Meeting, 2018 Lithosphere and Deep Earth seminar (UT-Austin), 2018 Master's Saturday (UT-Austin)

Geology Research Fellow, College of William & Mary

Aug 2015-May 2016

- Created new geologic map of Albemarle County, VA (1:500000) with Dr. Chuck Bailey (Fellowship Supervisor), presented to VA Dept. of Mines, Minerals, and Energy at 2017 Virginia Geological Field Conference (VGFC)
- Co-led the 2017 VGFC on a day-long traverse from the Piedmont to the eastern Blue Ridge; field guide found [here](#)
- Assisted in the field and laboratory on various undergraduate projects aimed at understanding deformation along the Piedmont-Blue Ridge boundary in central Virginia
- Organized class and department field trips and managed the Geology Department's website and social media presence.

Senior Honors Research, College of William & Mary

Aug 2014-May 2015

- Characterized the whole rock and trace element geochemistry of pre-PST lava flows and PST magmatic enclaves and analyzed the possibility of mafic magma injection as an eruption trigger mechanism for the Peach Spring supereruption 18.8 Ma
- Collaborations: Dr. Calvin F. Miller (Vanderbilt Univ., as part of the **2014 NSF-REU: Before and After a Supereruption**)
- Presentations: 2014 National GSA, 2014 NSF-REU CUR Symposium, 2015 GSA Southeast, 2015 Honors thesis defense (W&M)

- Undergraduate Researcher, NSF-REU: Before and After a Supereruption* 2013-2014
- Selected for first year of REU program co-organized by Vanderbilt University and Mercyhurst University
 - Methods: BSE and imagery on SEM (Vanderbilt Univ.), melt fractionator and XRF (Middle Tennessee State Univ.), field observation and volcanic stratigraphy
 - I evolved the project into my Undergraduate Honors Thesis at W&M

Field Experience

^a individually directed, ^b co-led or teaching assistant, ^c field assistant, ^d field trip participant/student

- ^a *On-going Research Project(s), Oberlin College* July 2022—Present
- **Baltimore Gneiss:** the BG domes of eastern/central MD, collaboration with Zach Foster-Baril (UT-Austin) and Chuck Bailey (W&M), thermal history of BG, relation to Appalachian orogenesis and Central Atlantic rifting
 - **Uinta Uplift:** Uinta Mtns (Utah), collaboration with Basil Tikoff (UWisc-Madison), spatial and temporal variation in E-W oriented Laramide uplift, relation to flank of Colorado Plateau, field mentorship of Grace Burns (Oberlin, B.S. '23)
 - **Black Hills--Proterozoic Shear Zones:** Black Hills of South Dakota, collaboration with Trevor Waldien (SD School of Mines), constraining style, orientation, and timing of deformation of shear zones hosted in Proterozoic and older cratonic rocks.
 - Sample collection: mapping and structural data collection, oriented samples for thin section analysis, large (~3 kg) geo-thermochron samples for mineral separation
 - Camping intensive, some hotels; Time in the field: 2 weeks to-date.

- ^b *Adjunct Faculty, GEOL 310—Regional Field Geology, W&M* Summer 2023
- Arizona, Utah, and Nevada, mapping, volcanic stratigraphy, structural geology, petrology, hydrology, surface processes, culture and social justice, Colorado Plateau
 - Co-led field course: responsible for grading, stop organization and discussion, field lessons, student health and well-being.
 - Camping only; Time in the field: 3 weeks

- ^a *Instructor for Class Field Trips, Oberlin College* July 2022—Present
- Cuyahoga Valley National Park day trip (GEOS 121 Fall '22, Fall '23, Spring '24)
 - Western Maryland—Virginia—West Virginia Blue Ridge/Valley & Ridge provinces weekend trip (GEOS 340 Spring '23, GEOS 206 Fall '23)
 - Day-trips, camping, or hotels; Time in the field: 0.5 weeks to-date.

- ^a *Doctoral Research, The University of Texas at Austin* Sept 2018-Present
- 1:1000 scale mapping, collecting orientation data, outcrop-scale description focuses on lithology, fabric relationships, and cross-cutting relations, field mentorship of Maya Ortiz (UT-Austin, B.S. '21)

- Sample collection: oriented samples for thin section analysis, large (~3 kg) geochron samples for mineral separation
- Camping and primitive camping intensive; Time in the field: 8 weeks

^b *Field Teaching Assistant, GEO 660A—Geologic Field Camp, UT-Austin* Summer 2021

- New Mexico and Wyoming, carbonate stratigraphy, reconnaissance mapping, volcanic stratigraphy, structural geology, Rio Grande Rift, Laramide tectonics
- Responsible for camp organization, food and grocery schedule, grading, student well-being
- Camping only, primitive camping intensive; Time in the field: 3 weeks

^b *Field Teaching Assistant, GEO 660B—Geologic Field Camp, UT-Austin* Summer 2019

- Wyoming and Montana, structural geology, mapping, metamorphic petrology, ore geology, fold-thrust belts, Sevier and Laramide tectonics
- Responsible for camp organization, food and grocery schedule, grading, student well-being
- Camping intensive; Time in the field: 3 weeks

^d *Student, Tectonic Problems—Morocco's High Atlas and Inverted Rift Margins* Spring 2019

- Semester course focused on the mechanics of tectonic inversion in the Moroccan Central High Atlas Mtns
- Time in the field: 1.5 weeks

^d *Student, Tect/Climate Interactions in Foreland Basins/Fold-Thrust Belts* Oct 2018

- Semester course focused on the structural and sedimentary record of fold-thrust belts, Sevier ranges in eastern Utah
- Time in the field: 0.5 weeks

^c *Field Assistant, NOR-R-AM— Eastern Siberia* Aug-Sept 2018

- Traverse across the remote Verkhoyansk fold-thrust belt in eastern Siberia (Yakutia) (Eurasia—North America suture zone)
- Assisted in the collection of geo- and thermochronologic samples, description of outcrop (structure and stratigraphy)
- Primitive camping intensive; Time in the field: 3.5 weeks

^b *Field Teaching Assistant, GEOL 310—Regional Field Geology, W&M* May 2018

- West Texas, Big Bend National Park, mapping, volcanic stratigraphy, structural geology, petrology, Rio Grande Rift
- Responsible for camp organization, grading, student well-being
- Camping only; Time in the field: 2 weeks

^a *Masters Research, The University of Texas at Austin* Sept 2016-Aug 2018

- Collection of structural orientation data and geo-thermochron samples (~3 kg)

- Time in the field: 5 weeks

^b *Field Trip Co-leader, Virginia Geological Field Conference* Oct 2017

- Day-long accessible field trip for students, professional geologists, and rockhounds in Virginia
- Time in the field (including prep): 1 week

^b *Field Teaching Assistant, GEOL 310—Regional Field Geology, W&M* Summer 2016

- Arizona, Utah, and Nevada, mapping, volcanic stratigraphy, structural geology, petrology, hydrology, surface processes, Colorado Plateau
- Responsible for camp organization, grocery schedule, grading, student well-being
- Camping only; Time in the field: 3 weeks

^b *Geology Research Fellow, College of William & Mary* Aug 2015-May 2016

- Assisted various undergraduate research projects in the central Virginia Piedmont and Blue Ridge provinces; planned the 2017 Virginia Geological Field Conference; assisted Virginia DMME work on Piedmont shear zones; TA for W&M field trips
- Camping intensive; Time in the field: 4 weeks

^b *Undergraduate Research, NSF-REU Before and After a Supereruption* 2013-2014

- Volcanic stratigraphy of the southern Black Mtns, AZ; sample collection for whole-rock geochemistry and petrographic characterization
- Primitive camping intensive; Time in the field: 4 weeks (winter '13-'14 and May '14)

^c *Field Assistant, College of William & Mary* May 2013

- Identified shallow offshore facies and Ordovician marine fossil species and collected fragile fossils in varying rock strengths as an assistant to a paleontology M.S. student (University of Georgia) in the Valley & Ridge province ranging from southern Virginia up to Pennsylvania
- Camping only; Time in the field: 2.5 weeks

^d *Student, Regional Field Geology of the Colorado Plateau* May-June 2012

- 3-week field course on the Colorado Plateau of Arizona and Utah
- Camping only; Time in the field: 3 weeks

^d *Student, Various Undergraduate Geology Courses (W&M)* 2011-2015

- Field trips for: Rock-Forming Minerals, The Sedimentary Record, Earth Surface Processes, Earth Structure & Dynamics, Field Methods, Hydrology, Age of Dinos,
- Camping only, if overnight trip; Time in the field: ~4 weeks

Total time in the field: ~ 52 weeks

Service

<i>Primary Convener, Session T024</i> , American Geophysical Union Fall Meeting	Dec 2023
<i>Co-Convener, Session D19</i> , Geological Society of America National Meeting	Oct 2023
<i>Participant/Invitee, Southern Cordillera</i> , Penrose Conference (Cordillera Focus)	Aug 2023
<i>Co-chair, Session V15A and V22A</i> , American Geophysical Union Fall Meeting	Dec 2021
<i>Primary Convener, Session T14</i> , Geological Society of America National Meeting	Oct 2021
<i>Student Volunteer, Thermo2020/21</i>	Sept. 2021
<i>Moderator, Virtual Thermo2020/21</i> , Thermo2020/21 Conference	Nov 2020-Mar 2021
<i>Graduate Student Rep., Structural Geology Faculty Search Committee</i> , Jackson School of Geosciences, UT-Austin	Nov 2020-April 2021
<i>Co-coordinator, Lithosphere and Deep Earth Seminar</i> , UT-Austin	Aug 2020-May 2021
<i>Webmaster, Graduate Student Executive Committee</i> , UT-Austin	Aug 2020-May 2022
<i>Web-editor—JEDI Resources, Geoscience Empowerment Network</i> , UT-Austin	Summer 2020
<i>Editor-in-Chief, Science Y'all Blog</i> , UT-Austin	Aug. 2019-Present
<i>Session Chair, EU-IN-TIME-RISE Martian Geochronology Workshop</i>	April 2018
<i>Editor, Science Y'all Blog</i> , UT-Austin	Aug. 2017-July 2019
<i>Session Chair, Jackson School Master's Saturday Program</i>	April 2017
<i>Director, William & Mary Pep Band</i>	2014
<i>Associate Director and Librarian, William & Mary Pep Band</i>	2013
<i>Secretary, Sigma Gamma Epsilon Geology Honor Society</i> , W&M	2014-2015
<i>Tutor, Sigma Gamma Epsilon Geology Honor Society</i> , W&M	2013-2015

Peer Review for Scientific Journals

International Geology Review

GEOLOGY

Synergistic Activities

<i>Certification, Moving Forward: Building Supportive Appreciative Education & Strengths Strategies for Working with Students of Color</i> , Oberlin College	Feb 2024
<i>Participant, OH5 Lunchtime Series: What's Up with ChatGPT?</i>	Spring 2024
<i>Guest Speaker, What is Geoscience? And Life After High School</i> , William Monroe High School (Stanardsville, VA)	Jan. 2023
<i>DEI Working Group, Geosciences Department</i> , Oberlin College	Fall 2022-Spring 2024
<i>Participant, Pancakes with Professors—</i> HHMI Student Leadership Committee , Oberlin College	Dec. 2022
<i>Lab Tour Guide, Enhancing Diversity in Geoscience Graduate Education (JSG)</i>	Nov. 2021
<i>ADVANCEGeo Workshop, NSF ADVANCE</i>	Nov. 2021
<i>Mentor, Helium Latinx Internship and Outreach (HeLIO)—UTChron</i>	2018/2021
<i>Pod Participant, Understanding Racism in the Geosciences (URGE)</i>	Spring 2021
<i>Science Communication for Social Justice, NAGT</i>	Aug. 2020
<i>Becoming an Inclusive Geoscience Leader, NAGT (2-day)</i>	Aug. 2020
<i>History of the Black Experience Web-Series (7-parts),</i>	June-Aug. 2020

UT Division of Diversity and Community Engagement

<i>Teaching Preparation Series and Certificate, UT Faculty Innovation Center</i>	Jan.-May 2020
<i>Inclusive Classrooms Leadership Certification, UT Office for Inclusion and Equity</i>	Mar. 2020
<i>Mentor, GeoFORCE Longhorns</i>	2016-2018

Other Professional Experience

<i>Project Liaison and Coordinator, Video Outreach Series,</i> On-Ramps Geoscience, UT-Austin	Spring 2019
<i>Shift Runner, Berrybody Frozen Yogurt and Yoga**</i>	2015-2016
<i>Department Assistant, W&M Dept. of Geology</i>	2013-2015
<i>Customer Service Rep., Domino's Pizza**</i>	2011-2013

**These stand out on a science CV, but working at these places was both crucial experience and financial help during my pre-graduate career.

Professional Short-Course Participation

<i>Using the StraboSpot2 Digital Data System, GSA Cordillera/Rocky Mtn Meeting</i>	Mar 2022
<i>Practical Masterclass in Microtectonics, Uni-Mainz (Drs. V. Toy and C. Passchier)</i>	Feb 2020
<i>Introduction to Seismic Interpretation, AAPG</i>	Jan 2017

Skills

Software: Intermediate-Expert: Python; HeFTy; StraboSpot2; ESRI ArcGIS suite; Iolite Data Reduction; Adobe suite; Microsoft Office suite; Excel MELTS; iMovie | Basic: Elastik; ImageJ; MatLab; LaTek; RiverTools; KaleidaGraph; Magma; SimpleDEMViewer

Field: Geologic mapping; structural observation, data collection, and interpretation; measuring stratigraphic section; geochronologic and oriented sample collection; Brunton Compass; GPS; magnetometer

Laboratory: Rock saw; shatterbox; gold table density separation; SEM and EBSD data collection; XRF Analyzer; petrographic microscope and microstructural description; LA-ICP-MS U-Pb and TE analyses; zircon and apatite HF-HCl-HNO₃ dissolution methods; heavy liquids mineral separation

Other: 12-passanger van certified and experienced, manual-transmission vehicle experienced, emergency services training

Full List of References

Dr. Daniel Stockli, Professor and Chair, The University of Texas at Austin
Graduate Supervisor (MS and PhD)
stockli@jsg.utexas.edu

Dr. Mark Cloos, Emeritus Professor, The University of Texas at Austin
Qualifying Exam Committee Member, TA Supervisor (Structural Geology)
cloos@jsg.utexas.edu

Dr. Christopher Bailey, Professor and Chair, The College of William & Mary
Collaborator, Co-instructor, Fellowship Supervisor, Undergraduate Advisor
cmbail@wm.edu

Dr. Mark Helper, Emeritus Dist. Senior Lecturer and Field Camp Director, The University of Texas at Austin
TA Supervisor (Field Camp, Intro to Field & Stratigraphic Methods)
helper@jsg.utexas.edu

Dr. Amanda Schmidt, Professor and Chair, Oberlin College
Chair, Mentor
aschmidt@oberlin.edu

Dr. John Singleton, Associate Professor, Colorado State University
Collaborator, Dissertation Committee Member
john.singleton@colostate.edu

Publications (citations = 94, h-index = 3, $R^G = 131.2$ *research interest*)

In prep, **Flansburg, M.E.**, Stockli, D.F., and Mosher, S., (*Working Title*) Late Cretaceous-Paleocene extensional deformation along the margin of the Colorado River extensional corridor: Evidence from in-situ titanite U-Pb petrochronology and EBSD analyses (Big Maria Mountains, SE California USA): *for Geology*

In prep, **Flansburg, M.E.**, Singleton, J.S., and Stockli, D.F., (*Working Title*) Apatite U-Pb and EBSD evidence for Late Cretaceous-Paleocene extensional reactivation of the Late Cretaceous Tyson-Valenzuela Thrust, Eastern Moon Mountains and Northern Dome Rock Mountains, Arizona, USA: *for Lithosphere*

In prep, **Flansburg, M.E.**, Stockli, D.F., and Singleton, J.S., (*Working Title*) Petrochronologic evidence for Cretaceous and Late Cretaceous-Paleocene top-NE extensional deformation in the Maria fold-and-thrust belt (Big Maria and Riverside Mountains, SE California, USA): *for GSA Bulletin*

In submission, **Flansburg, M.E.**, Stockli, D.F., Poulaki, E.M., Soukis, K., and Stockli, L., Temporal differentiation of mylonites in the footwall of a Miocene Cycladic core complex (Ios, Greece): (Micro)structurally-integrated apatite U-Pb petrochronology: *for Earth and Planetary Science Letters*

Flansburg, M.E., and Stockli, D.F., **2023**, Progressive Miocene unroofing of the Big Maria and Riverside Mountains (SE California, USA) along the southwestern margin of the Colorado River extensional corridor: *Geosphere*, <https://doi.org/10.1130/GES02564.1>.

Flansburg, M.E., Poulaki, E.M., Stockli, D.F., and Soukis, K., **2022**, Coeval Miocene exhumation of the Cycladic Blueschist Unit and the Cycladic Basement in the Southern Cyclades, Ios and Sikinos, Greece: *Terra Nova*, v. 00, 1-10, <https://doi.org/10.1111/ter.12636>.
(*citations* = 2)

Poulaki, E.M., Stockli, D.F., **Flansburg, M.E.**, Gevedon, M.L., Soukis, K., Stockli, L.D., Barnes, J., Kitajima, K., and Valley, J.W., **2021**, Zircon U-Pb and geochemical signatures in high-pressure metamorphic rocks as recorders of subduction zone processes, Sikinos and Ios islands, Greece: *Chemical Geology*, v. 582, <https://doi.org/10.1016/j.chemgeo.2021.120447>
(*citations* = 17)

Poulaki, E.M., Stockli, D.F., **Flansburg, M.E.**, and Soukis, K., **2019**, Zircon U-Pb chronostratigraphy and provenance of the Cycladic Blueschist Unit and the nature of the contact with the Cycladic Basement on Sikinos and Ios Islands, Greece: *Tectonics*, v. 38, <https://doi.org/10.1029/2018TC005403>
(*citations* = 32)

Flansburg, M. E., Stockli, D. F., Poulaki, E. M., and Soukis, K., **2019**, Tectono-magmatic and stratigraphic evolution of the Cycladic Basement, Ios Island, Greece: *Tectonics*, v. 38, <https://doi.org/10.1029/2018TC005436>
(citations = 33)

Field Guides

Bailey, C.M., **Flansburg, M.E.**, Lang, K.E., and Biggs, T., **2017**, Geology in Jefferson's country: a Blue Ridge traverse across Albemarle County *in* Virginia Geological Field Conference, 47th Field Conference, Guidebook, 58 p.
(citations = 1)

Maps

In prep, Bailey, C.M., and **Flansburg, M.E.**, Geologic Map of Albemarle County, Virginia (1:500000), Virginia Department of Mines, Minerals, and Energy

Theses

Flansburg, M.E., 2022, Temporal differentiation of polyphase ductile fabrics in metamorphic core complexes by structurally integrated U-Pb and (U-Th)/He dating (Southern Cyclades, Greece and Southern Basin and Range, U.S.A.) [Ph.D. Dissertation]: Austin, The University of Texas at Austin, 211 p, plus tables.
(citations = 1)

Flansburg, M.E., 2018, Pre-Cenozoic Tectono-Metamorphic Evolution of the Cycladic Basement, Ios Island, Greece [M.S. Thesis]: Austin, University of Texas, 417 p.
(citations = 2)

Flansburg, M.E., 2015, Priming for Supereruption: the hot pre-Peach Spring Tuff lavas and Peach Spring Tuff magmatic enclaves, Black Mountains, Arizona [B.S. Honors thesis]: College of William & Mary, Paper 145, 109 p.
(citations = 1)

Abstracts and Presentations (*invited)

[†]**Flansburg, M.E.**, 2023, Stacked Miocene detachment faults with Cretaceous-Paleogene Ductile shear zones: Implications for Structural Inheritance in Large-Magnitude Extension: Presented in Departmental Seminar, Dept. of Geology and Environmental Science, University of Wisconsin-Eau Claire, Eau Claire, Wisconsin, 6 December. (*Oral Presentation*)

[†]**Flansburg, M.E.**, 2023, Stacked Miocene detachment faults with Cretaceous-Paleogene Ductile shear zones: Implications for Structural Inheritance in Large-Magnitude Extension: Presented in Departmental Seminar, Dept. of Geosciences, Oberlin College, Oberlin, Ohio, 9 November. (*Oral Presentation*)

- Flansburg, M.E.**, and Stockli, D.F., 2023, Differentiating kinematically similar deformation by applying structurally-integrated U-Pb geo-thermochronology along the southwestern margin of the Colorado River extensional corridor (SE California, USA): Geological Society of America Abstracts with Programs, v. 55, no. 6, doi: 10.1130/abs/2023AM-392912. (*Oral Presentation—GSA Connects 2023*)
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