

EIRINI-MARIA POULAKI

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EDUCATION

- The University of Texas at Austin** **09/18 – expected 2022**
 Ph.D. Candidate in Geological Sciences, Jackson School of Geosciences
 Dissertation: Tracing Mediterranean-style subduction zone evolution from deposition to exhumation using multi-mineral geochronology (Dr. Daniel Stockli)
- The University of Texas at Austin** **09/16 – 08/18**
 Master's in Geological Sciences, Jackson School of Geosciences
 Thesis: Zircon U-Pb Chronostratigraphy and Provenance of the Cycladic Basement and CBU on Sikinos and Ios Islands, Greece (Dr. Daniel Stockli) GPA:3.78/4.0
- National and Kapodistrian University of Athens, Greece** **09/11 –06/15**
 Bachelor in Geology and Geoenvironment
 Bachelor Thesis: Tectonometamorphic evolution of the Makrotantalos unit at the NW Andros northern Cyclades, Greece (Dr. Konstantinos Soukis) Cumulative GPA: 8.6/10-Top of Geology class

PROFESSIONAL EXPERIENCE

- Graduate Research Assistant – The University of Texas at Austin** **2016-Present**
 - Mineral separation and geochronologic work for contract work in UTChron laboratories.
 - Mentor and train new graduate and undergraduate students on laboratories work-flow and equipment operation.

PhD research: Graduate Research Assistant – The University of Texas at Austin **2018- expected 2022**
 - Geochronologic and geochemical analyses on zircon, apatite, and rutile, including U-Pb and trace elements split-stream analyses as well as 2D elemental mapping techniques.

Masters research: Graduate Research Assistant – The University of Texas at Austin **2016-2018**
 - Zircon U-Pb and U-Th He geo-thermochologic techniques

Geology Intern-Institute of Geology and Mineral Exploration, Athens, Greece **01/16 – 06/16**
 - Determination of clays properties. Evaluation of mineralogical composition of altered volcanoclastic samples with the EVA® software provided by Bruker. Separation of the clay fraction of the above samples by settling. Saturation of the clay fraction with various cations (Li, Na, K). Use of portable IR (TerraSpec spectrometer) for mineral identification

TEACHING EXPERIENCE

- Teacher Assistant-The University of Texas at Austin** **Spring 2020**
Introduction to Field Methods and Statistics, UT Austin, Instructors: Mark Helper, Brian Horton
 - Prepared and led hands-on laboratories every week for ten undergraduate students.
 - Assisted instructors to transition to online teaching during COVID-19, prepare online labs and final exam.

Teacher Assistant-The University of Texas at Austin **Spring 2019**
Introduction to Field Methods and Statistics, UT Austin, Instructors: Mark Helper, Daniel Stockli, Brian Horton, Zachary Sickmann)
 - Prepared and led hands-on laboratories every week for ten undergraduate students

Teacher Assistant-National and Kapodistrian University of Athens (Undergraduate) **Spring 2015**
Introduction to Geology and Microtectonics, Instructor: Konstantinos Soukis
 - Supervise and assist hands-on laboratories every week for 20 undergraduate students.

PUBLICATIONS

Poulaki, E. M., Stockli, D. F., Flansburg, M. E., & 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

Flansburg, M. E., Stockli, D. F., **Poulaki, E. M.**, & Soukis, K. (2019). Tectono-Magmatic and Stratigraphic Evolution of the Cycladic Basement, Ios Island, Greece. *Tectonics*.

In preparation: **Eirini Maria Poulaki**, Daniel F. Stockli, Megan Flansburg, Konstantinos Soukis, Michelle L. Gevedon, Lisa Stockli, Jaime Barnes. Zircon grains as a recorder of subduction and exhumation processes, Sikinos and Ios Islands (Cyclades, Greece)

In preparation: Megan Flansburg, **Eirini Maria Poulaki**, Daniel F. Stockli, Konstantinos Soukis. Coeval Miocene exhumation of the Cycladic Blueschist Unit and the Cycladic Basement in the lower-plate of the Ios-Sikinos metamorphic core complex, southern Cyclades, Greece

SHORT COURSES

University Center of Svalbard, Summer course in Arctic Tectonics and Volcanism **06/19 – 07/19**
Geological history of the Arctic region. Project: Paleocurrent, stratigraphic analyses and the Detrital Zircon record of the Devonian strata in the Arctic region

CERTIFICATIONS

Teaching Preparation Certificate **Spring 2020**

HONORS AND AWARDS

- Outstanding Teaching Graduate Assistant award (nominated by Dr. Mark Helper) **Spring 2020**
- PhD student grant for the workshop Alboran Domain and Gibraltar Arc **Fall 2019**
- Off Campus Research Grant **2019, 2017**
- Jackson School of Geosciences Grant Matching Program **2019**
- GSA research grant **2019, 2017**
- First student in Geology and Geoenvironment to graduate in class 2011 **2015**

PUBLIC OUTREACH AND VOLUNTEER WORK

Co-Coordinator, Lithosphere and Deep Earth Seminar (University of Texas at Austin) **2019-2020**

- Organized and promoted weekly geoscience seminars

Co-Coordinator of the GeoFORCE Graduate Student Mentoring Program **2017 – 2019**

- Assigned graduate student mentors to undergraduate mentees and personally mentored an undergraduate student

North American Laser Ablation Workshop, Volunteer **05/19**

- North American Laser Ablation Conference planning committee

Thinkery21 Adult Science Outreach Events, Volunteer **12/16**

Petrology and Mineralogy museum, Athens, Volunteer **12/14, 12/15**

- Responsible for children's activities and small tours for 6 Sundays/year

POSTER (*) AND ORAL () PRESENTATIONS**

***116th Annual GSA Cordilleran Section Meeting –** **2020**
Levang, Devin, Anfinson, Owen, Odlum, Margaret, Finley, Jake M., **Poulaki, Eirini M.**, Gaina, Carmen, Stockli,

Updated 05/2020

Eirini Maria Poulaki

Daniel F., Shephard, Grace and Pavlovskaia, Elena “EARLY TO MIDDLE DEVONIAN PALEOGEOGRAPHIC LOCATION OF SVALBARD, NORWAY”

- *116th Annual GSA Cordilleran Section Meeting – 2020**
Finley, Jake M., Anfinson, Owen, Odlum, Margaret, Levang, Devin, **Poulaki, Eirini M.**, Gaina, Carmen, Stockli, Daniel F., Shephard, Grace and Pavlovskaia, Elena “LATE DEVONIAN SEDIMENT PROVENANCE OF THE ANDRÉE LAND BASIN, SVALBARD, NORWAY”
- **Invited Presentation-National and Kapodistrian University of Athens 01/20**
Poulaki E. M., Flansburg, Stockli D., Soukis K.; “The tectonometamorphic evolution of the Southern Cyclades”
- **Workshop Alboran Domain and Gibraltar Arc: Geological Research and Natural Hazards 10/19**
Poulaki E., Stockli D “Unraveling the tectonometamorphic evolution of the Nevado Filabride Unit using zircon U-Pb depth profile and 2-D mapping geochronology”
- *Chapman Conference on Large-scale Volcanism in the Arctic: The Role of the Mantle and Tectonics 10/19**
Odlum M., Anfinson O., **Poulaki E.**, Shephard G., Stockli D., Gaina D. “Thermal record of deformation, exhumation, and fluid-rock interactions along the Billefjorden Fault Zone, Pyramiden, Svalbard”
- * North American Laser Ablation Workshop 05/19**
Poulaki E., Stockli D., Stockli L., Flansburg M., “Split-Stream and 2D mapping U-Pb and trace elements depth profiling”
- ** North American Laser Ablation Workshop 05/19**
Odlum M., **Poulaki E.**, Flansburg M., Stockli D., “Dating exhumation and fluid-rock interactions in fault systems using apatite U-Pb and trace element LA-ICP-MS analysis.”
- *EGU Spring meeting in Vienna, Austria 04/19**
Poulaki E., Stockli D, Flansburg M, Soukis K; “Tectonic evolution of the CBU and CB with multiple geo-thermo chronometers”
- *AGU Fall Meeting, in New Orleans, Louisiana 12/17**
Poulaki E. M., Stockli D., Flansburg, Soukis K.; “Unravelling the Formation and Exhumation of The Cycladic Blueschist Unit and Basement in the Southern Aegean, Sikinos Island, Greece.”
- *AGU Fall Meeting, in New Orleans, Louisiana 12/17**
Flansburg M., Stockli D., **Poulaki E. M.**, Soukis K.; “Geo-Thermochronometric Insights on the Cycladic Basement and Cycladic Blueschist Unit Contact in the Southern Cyclades, Ios Island, Greece.”
- *GSA Annual Meeting in Seattle, Washington, USA 12/17**
Poulaki E. M., Flansburg M., Stockli D., Soukis K.; “Zircon La-SS-ICP-MS U-Pb Analysis of the Petrogenesis, Chronostratigraphy, And Provenance of the Cycladic Blueschist Unit and Basement in the Southern Cyclades, Sikinos And Ios, Greece”
- *GSA Annual Meeting in Seattle, Washington, USA 12/17**
Flansburg M., **Poulaki E. M.**, Stockli D., Soukis K.; “The Cycladic Basement and the Pre-Cenozoic Tectonic History of The Southern Cyclades, Ios Island, Greece.”

FIELD EXPERIENCE

Southern Spain	10/18 & 10/19
Ph.D. field work in the Internal Betic Cordillera	
Svalbard	06/19-07/19
Pyramiden field trip in Svalbard (3 days), three field trips in Svalbard for the graduate course	
Morocco	05/19
Participant in week-long field trip for UT graduate seminar led by Daniel Stockli with focus on inversion tectonics (Atlas/ Anti-Atlas)	
Central Texas	01/17-05/17
Field trips in central Texas as a Teacher Assistant for the class field and stratigraphic methods	
Llano	05/17
Three days field trip with GIS and GPS class	
Oklahoma	05/16
Three days field trip with continental tectonics class	
Sikinos and Ios Islands (Cyclades Greece)	06/16 & 06/17

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Master's field work	
Tinos and Syros Islands (Cyclades Greece)	05/15
Field assistant (structural geology and petrology)	
Andros Island (Cyclades Greece)	05/17 – 06/17
Undergraduate field work, mapping, structural geology	
Santorini Island (Cyclades Greece)	05/13 & 06/14
3-days conference with field work on the island	
Peloponnese (Cyclades Greece)	06/14
10 days field camp	
Central Greece, Peloponnese (Central Greece)	05/11 – 06/15
36 Field trips (1-3 days) in central Greece, Peloponnese for undergraduate courses	

SKILLS

- Software: Python, ERSI ArcGIS, Eva, Adobe Illustrator, Iolite2, MATLAB, GPlates, Geomap App
- Field skills: Geology mapping, sample collection, use of geology compass: breithaupt, Brunton, portable IR (TerraSpec spectrometer), GPS
- Laboratory skills: viscosity meter and use of the spectrophotometer I.R., Karl Fischer titrator,
- XRF, XRD analyzer, polarized microscope
- Inductively Coupled Plasma Mass Spectrometry (ICP-MS – solution and laser modes), zircon and apatite dissolution procedures
- Clean laboratory sample dissolution (flux fusion, parr-bomb, hot plate, sinter)
- Sample preparation (whole rock crushing, mineral separation for apatite, zircon, rutile)
- Languages: Greek (Native Language), English (Fluent)

PROFESSIONAL SOCIETIES

- Geological Society of America
- Mineralogical Society of America
- American Geophysical Union
- European Geological Union