

I. Dogancan Yasar, Ph.D. - Curriculum Vitae

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Address: 241 Williamson Hall, Department of Geological Sciences, University of Florida, Gainesville, Florida, 32611

EDUCATION

December 2023- August 2020	Auburn University [AU] Department of Geosciences Doctor of Philosophy [Ph.D.] Research Area: Geochronology, Geochemistry and Tectonics Applications: Ar-Ar Geochronology, Zircon & Rutile Petrochronology, Sr-Nd-Pb Isotope Geochemistry, Whole-Rock Geochemistry, Mineral Geochemistry Dissertation Title: Tectonic evolution of Paleozoic orogenic events CGPA: 3.88/4.00	Auburn, AL, USA
July 2020- September 2018	Middle East Technical University [METU] Department of Geological Engineering Master of Science [M.Sc.] [English Instruction] Research Area: Geochronology, Geochemistry and Tectonics Applications: Whole-Rock Geochemistry, Zircon Petrochronology Thesis Title: Petrogenesis and ages of the amphibolites within the Sogut Metamorphics, Central Sakarya Terrane (NW Eskisehir, Turkey) CGPA: 3.93/4.00	Ankara, Turkey
June 2018- September 2010	Middle East Technical University [METU] Department of Geological Engineering Bachelor of Science [B.Sc.] [English Instruction] CGPA: 2.79/4.00	Ankara, Turkey

EXPERIENCE

ACADEMIC

Present- February 2024	University of Florida [UF] Department of Geological Sciences Research Scientist (Full) [Full-Time]	Gainesville, FL, USA
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X-Ray Laboratories (SEM-XRF-XRD) Director and ^{40}Ar - ^{39}Ar Geochronology Laboratory Co-Director. Overseeing the Sample Preparation Laboratories. Co-teaching the Analytical Methods in Earth and Environmental Sciences [GLY5062C] class, offered for both undergraduate and graduate students during Fall and Spring semesters. Mentoring Graduate and Undergraduate students. Member of the Environmental and Safety Committee of the Department of Geological Sciences. Collaborating with a large group of domestic and international scientists on projects that utilize geochronology and/or geochemistry for tectonics and volcanology research.

Over 2.5 years of extensive experience in the following analytical instruments including their tuning, regular operation, maintenance and troubleshooting, supplemented with various methods of sample preparation. Expertise in a wide range of geochronological and geochemical analysis including U-Pb (zircon, rutile, monazite), ^{40}Ar - ^{39}Ar (hornblende, biotite, muscovite, groundmass) and Rb-Sr geo-petro-thermochronology, major and trace element geochemistry and conventional radiogenic isotope (Sr-Nd-Pb) geochemistry.

- IsotopX NGX Noble Gas Mass Spectrometer (with ATONA Faraday Amplifiers) connected to custom built UHV gas extraction system and Teledyne Photon Machines CO_2 and Diode lasers.
- Zeiss EVO MA10 Scanning Electron Microscopy with Oxford Instruments Ultim Max Silicon Drift EDS, Gatan MiniCL, BSE, SE and VPSE Detectors
- JEOL JXA-8600 Electron Microprobe Analyzer
- Rigaku Supermini Wavelength Dispersive X-Ray Fluorescence Spectrometer
- Thermo Scientific Niton XL5 Plus Silicon Drift Energy Dispersive Spectrometer
- Rigaku Ultima IV X-ray Diffractometer
- Nu Instruments Plasma 1 and Plasma 3 Multi-Collector ICPMS
- Elemental Scientific Lasers (ESL) 193nm and 213nm Laser Ablation Systems

December 2023-
August 2020

Auburn University [AU]
Department of Geosciences
Graduate Teaching Assistant [Full-Time]

Auburn, AL, USA

Assisted students on

- **Dynamic Earth** [GEOL1100]
- **Honors Dynamic Earth** [GEOL1107]
- **Igneous and Metamorphic Petrology** [GEOL2050]
- **Mineralogy and Optical Crystallography** [GEOL2010]

courses, particularly recognition of rocks via hand-specimen and laboratory [thin-section examination] studies. Held the *Head GTA* position for GEOL1100 during the 2021 & 2023 Fall Semesters. Substituted the instructors for lecture hours when needed. *Laboratory Coordinator* for GEOL1100 (28 sections) during the 2023 Fall Semester.

December 2019-
November 2016

Middle East Technical University [METU]
Department of Geological Engineering
Teaching Assistant [Part-Time]

Ankara, Turkey

Assisted students on

- **Mineralogy** [5640213]
- **Petrography** [5640210]
- **Principles of Mineralogy and Petrography** [5640207]
- **Igneous and Metamorphic Petrology** [5640304]
- **Field Geological Mapping** [5640327]

courses, particularly recognition of rocks and geological structures in field excursions, hand-specimen and laboratory [thin-section examination] studies.

INDUSTRIAL

October 2017-
August 2017

Esan Eczacıbaşı Industrial Raw Materials Industry and Trade Inc.
Exploration Directorate
Exploration Geologist [Intern]

Balıkesir, Turkey

Carried out drill hole core examinations [Geotechnical Logging, Lithological Logging and Sampling] in the largest Pb-Zn mine plant in Turkey, located in Balya, Balıkesir. Completed core sampling of a drill hole in Bergama, İzmir. Conducted soil sampling and magnetic survey of a brown field exploration project in the Aegean province.

October 2016-
August 2016

ONUR Construction Transportation and Trade Limited Company
Quality Control Department
Geological Engineer [Intern]

Ankara, Turkey

Conducted quality experiments on aggregates and bitumen that will be used at asphalt mixture design for the project Ankara-Polatlı-Sivrihisar State Road [Section 1] Km: 14+651-82+341.

VOLUNTARY

October 2021-
October 2016

Society of Economic Geologists, Inc. [SEG]
Middle East Technical University [METU] Student Chapter

Ankara, Turkey

- **Foundation Member of Executive Committee** [October 2021-October 2020]
- **President of Executive Committee** [October 2020-October 2019]
- **Member-at-Large of Executive Committee** [October 2019-October 2018]
- **President of Executive Committee** [October 2018-October 2017]
- **Vice President of Executive Committee** [October 2017-October 2016]

- Organized several seminars on economic geology given by both academicians and eminent geologists from the industry.
- Organized field trips to operating mines in Western Turkey [Efemçukuru and Kışladağ Gold Mines operated by Eldorado Gold (September 2017)], Biga Peninsula [Balya Pb-Zn Mine operated by Eczacıbaşı ESAN and Kestanelik Gold Mine operated by TUMAD Mining Inc. (September 2018)] and Eastern Turkey [Fe Skarn Mine operated by Çiftay Mining and Bakırtepe Gold Mine operated by Demir Export (September 2019)].

PUBLICATIONS

Bristol K.E., Sprain, C.J., Meert, J.G., **Yasar, I.D.**, Pandit, M.K., Sinha, A.K., Dann, A.B., 2025, Absolute Paleointensity Estimates from Precambrian India and the Long-Term Thermal Evolution of the Earth. *Geophysical Journal International*.

Yasar, I.D., Sayit, K., Miller, B.V., Hames, W.E., Koralay, O.E., Jeong, Y.J., and Goncuoglu, M.C., 2025, Multistage Tectonic Record of the Central Sakarya Terrane Basement (NW Turkey): Implications for the Paleozoic Evolution of Rheic Ocean and Northern Gondwanan Margin. *Geological Society of America Bulletin*.

Yasar, I.D., Miller, B.V., and Hames, W.E., 2025, Silurian Ocean Island Basalt Magmatism and Devonian-Carboniferous Polymetamorphism: 100 million years in the Western Blue Ridge, USA: *Geological Society of America Bulletin*.

MANUSCRIPTS IN REVIEW

Yasar, I.D., Kamenov, G., Sayit, K., Miller, B.V., Fosdick, J., Davis, Z.T., Zou, H., and Hames, W.E. Petrogenesis and Thermal Evolution of the Granite Harbour Intrusives, Central Transantarctic Mountains, Antarctica: Insights on the Ross Orogeny. *Geological Society of America Bulletin*. *In Review*.

MANUSCRIPTS IN PREPARATION

Yasar, I.D., Sayit, K., Kamenov, G., Davis, Z.T., Koralay, O.E., Jeong, Y.J., and Goncuoglu, M.C. Tectonic Window within the Central Sakarya Terrane Basement: Petrogenesis of a Cretaceous Neotethyan Intra Oceanic Arc. *In preparation for submission to Geochemistry (Chemie der Erde)*.

Yasar, I.D., Sayit, K., Davis, Z.T., Tekin, U.K., Okuyucu, C., Tuncer, A. Carboniferous Granitic Cobbles: Implications for the tectonic evolution of Variscan Sakarya Composite Terrane Basement. *In preparation for submission to Geochemistry, Geophysics, Geosystems*.

Yasar, I.D., Sayit, K., Davis, Z.T., Kamo, S., Tekin, U.K., Okuyucu, C., The Triassic-Jurassic Boundary in Turkey: The extend of the CAMP Large Igneous Province. *In preparation for submission to Geology*.

Yasar, I.D., Davis, Z.T., Johnson, S.L., Miller, B.V., The Chunky Gal Mountain Mafic Ultramafic Complex: A cryptic suture in the Central Blue Ridge. *In preparation for submission to GSA Bulletin*.

Yasar, I.D., David, Z.T., Miller, B.V., Hernandez-Urbe, D., Schmitz, M., Sinoplu, O., Fosdick, J., Hames, W.E., Silurian Resetting of Monazites from the Mineral Bluff Group: Implications for the Paleozoic Evolution of the Western Blue Ridge Terrane. *In preparation for submission to GSA Bulletin*.

Tekin, U.K., Sayit, K., **Yasar, I.D.**, Okuyucu, C., Tuncer, A., Akbas, M., Davis, Z.T. Triassic Intra-Plate Rifting of the Sakarya Continent: Paleontological, Geochemical, and Geochronological Evidence from the Dikmen Greywacke (Ankara, Central Anatolia, Turkey). *In preparation for submission to Lethaia*.

Aktag, A., Sayit, K., Peters, B.J, **Yasar, I.D.**, Hames, W.E., Sancar, T. Mid-Miocene Asthenospheric Melt Ascent through Translithoperc Fault System, East-Central Anatolia. *In preparation for submission to Lithos*.

Kwafo, S., **Yasar, I.D.**, Meert, J., Kamenov, G., Pandit, M.K., Sinha, A.K. Geochronology of the Bundelkhand and Surrounding Basins: Age distribution from the Betwa River – Orchha Basin. *In preparation for submission to Gondwana Research*.

[†]Davis, Z.T., **Yasar, I.D.**, Kamenov, G., Sayit, K., Miller, B.V., Koralay O.E., Billor, Z., Multi-method dating of Ore Deposits: A case study from the Tetyhan Metallogenic Belt. *In preparation for submission to Ore Geology Reviews*.

Meert, J.G., Kwafo, S., Pandit, M.K., **Yasar, I.D.**, Sinha, A.K. Paleomagnetism of 740 Ma dykes from the Bundelkhand craton, India. *In preparation for submission to Gondwana Research*.

Berber, F., Sayit, K., **Yasar, I.D.**, Davis, Z.T., Koralay, O.E. Petrogenesis of Late Cretaceous Arc Magmatism in the Central Pontides, NE Turkey: Insights from whole-rock geochemistry, zircon U-Pb geochronology and radiogenic (Nd-Pb) isotopes. *In preparation for submission to Lithos*.

Sayit, K., **Yasar, I.D.**, Aktag, A., Kamenov, G., Davis, Z.T., Balci, U., Berber, F. Elemental and Isotopic Composition of the Subducted Basaltic Oceanic Crust: Evidence from the Sivrihisar Eclogites (NW Turkey). *In preparation for submission to Chemical Geology*.

CONFERENCE ABSTRACTS

Yasar, I.D., Sayit, K., Kamenov, G., Zou, H., Miller, B.V., Fosdick, J., Davis, Z.T., and Hames, W.E., 2025, Petrogenesis and Thermal Evolution of the Granite Harbour Intrusives Suite (Central Transantarctic Mountains, Antarctica): Implications from Bulk-Rock Geochemistry, Sr-Nd-Pb Isotope Geochemistry and ^{40}Ar - ^{39}Ar Hornblende-Biotite Ages, *AGU Fall Meeting*.

[†]Davis, Z.T., **Yasar, I.D.**, Sayit, K., Kamenov, G., Miller, B.V., Billor, M.Z., 2025, Tectonic Evolution of Complex Mineralization Systems: A Case Study of the Multi-Stage Catalcam Au-Pb-Zn-Cu Mineralization within the Tethyan Metallogenic Belt, Biga Peninsula (NW Turkey), *AGU Fall Meeting*.

Yasar, I.D., Davis, Z.T., Miller, B.V., 2025, Silurian Zircon Age from the Chunky Gal Mountain Amphibolite (NC, USA), *GSA Abstracts with Programs*, 57(6).

[†]Davis, Z.T., **Yasar, I.D.**, Miller, B.V., 2025, Revisiting the Winding Stair Gap (Central Blue Ridge, NC, USA): Preliminary U-Pb Geochronology of Metamorphic Zircons of the Taconic Orogeny, *GSA Abstracts with Programs*, 57(6).

Pesar, E., Elardo, S., Kamenov, G., **Yasar, I.D.**, 2025, Iron isotopic compositions of Mg-rich olivine grains in olivine-rich achondrites may constrain protoplanet magma ocean crystallization, *Goldschmidt*.

Kwafo, S., Meert, J., Kamenov, G., **Yasar, I.D.**, Pandit, M.K., Sinha, A.K., 2024, Sands of Time: Investigating the Bundelkhand Craton from detrital zircons in the Betwa River, *GSA Abstracts with Programs*, 56(5).

Yasar, I.D., Miller, B.V., and Hames, W.E., 2024, The Marble Hill Hornblende Schist Amphibolite: The key to the Paleozoic evolution of the Western Blue Ridge, *GSA Abstracts with Programs*, 56(2).

*Swartz, J., **Yasar, I.D.**, Sayit, K., Billor, M.Z., Zou, H., Hames, W.E., 2024, Sample Suitability Assessment and Preparation for Geochronological and Geochemical Analysis, *GSA Abstracts with Programs*, 56(2).

Yasar, I.D., Zou, H., Miller, B.V., and Hames, W.E., 2023, Geochemistry and Thermochronology of Granitoid Magmatism During the Ross Orogeny, Central Transantarctic Mountains (CTAM), *GSA Abstracts with Programs*, 55(6).

Yasar, I.D., Sayit, K., Miller, B.V., Hames, W.E., Koralay, O.E., Jeong, Y.J., and Goncuoglu, M.C., 2023, Paleozoic Evolution of the Central Sakarya Terrane: Timing of Magmatism and Metamorphism, *GSA Abstracts with Programs*, 55(6).

Yasar, I.D., Miller, B.V., and Hames, W.E., 2023, Polymetamorphic evolution of the Western Blue Ridge Terrane through Acadian and Alleghanian orogenies, *GSA Abstracts with Programs*, 55(2).

Yasar, I.D., Miller, B.V., and Hames, W.E., 2022, Mid-Silurian OIB-like magmatism prior to the Late-Carboniferous Amphibolite Facies Metamorphism during Alleghanian Orogeny recorded in the Western Blue Ridge Terrane (Tate, GA, USA), *AGU Fall Meeting*.

Yasar, I.D., Sayit, K., Hames, W.E., Koralay, O.E., Jeong, Y.J., and Goncuoglu, M.C., 2021, Overview of the tectonic evolution of the Sogut Metamorphics, Variscan basement assemblage of the Central Sakarya Terrane (NW Eskisehir, Turkey), *GSA Abstracts with Programs*, 53(6).

Yasar, I.D., Parsons, K.W. and Hames, W.E., 2021, Revisiting the Miller and Geologists Ranges, Central Transantarctic Mountains: Single-crystal $^{40}\text{Ar}/^{39}\text{Ar}$ ages and their implications, *GSA Abstracts with Programs*, 52(6).

Yasar, I.D., Sayit, K. and Goncuoglu, M.C., 2019, Mafic and ultramafic rocks within the Söğüt Metamorphics of the Sakarya Composite Terrane, NW Eskişehir, Turkey: Preliminary field and petrological findings, *International Earth Science Colloquium on the Aegean Region Abstracts*, 13.

Yasar, I.D., Sayit, K., 2018, Petrographic Characterization and Provenance of a White Archaeological Stone, *71st Geological Congress of Turkey Abstracts*, 341-342.

[†]Current Ph.D. Student.

*Mentored undergraduate student.

INVITED SEMINARS

Paleozoic Polymetamorphism of the Western Blue Ridge. Seminar presented at Department of Earth Sciences, University of Connecticut, November 15, 2024.

The Dance of Geochronology and Geochemistry: Deciphering Tectonic Processes & Vision for the Future. Seminar presented at Department of Geological Sciences, University of Florida, November 14, 2023.

The Dance of Geochronology and Geochemistry: Deciphering Tectonic Processes & Vision for the Future. Seminar presented at New Mexico Bureau of Geology, The New Mexico Institute of Mining and Technology, June 1, 2023.

SERVICE

GRADUATE STUDENT COMMITTEES

Zachary Davis – University of Florida, PhD Student – Chair

Danilo Cruz – University of Florida, PhD Student – Member, Graduated Fall 2025.

Samuel Kwafo – University of Florida, PhD Student – Member

Megan Williams – University of Florida, MSc Student – Member

Mackenzie Benton – Auburn University, MSc Student – Member, Graduated Summer 2025.

Allison Lloyd – University of Florida, PhD Student – Member

DEPARTMENTAL COMMITTEES

Environmental and Safety Committee, Department of Geological Sciences, University of Florida

GRANTS

RESEARCH

- **NSF25-516:** Collaborative Research: A Novel Approach for Deciphering Metamorphism and Source Characteristics: Iron Isotopes in Garnets. **Lead PI: I.D. Yasar** [UF; \$645,772]; PI: D. Hernández-Urbe [UIC; \$188,313], *Pending*.
- **NSF25-526:** Collaborative Research: Resolving a cryptic crustal boundary during the growth and exhumation of the Transantarctic Mountains, Antarctica. **Lead PI: I.D. Yasar** [UF; \$418,048]; PI: J. Fosdick [UCONN; \$221,622], *Pending*.
- **NSF25-518:** Unravelling the History of the Vindhyan Basin and India's Tectonic Evolution. PI: J. Meert, **Co-PI: I.D. Yasar**. \$396,054, *Pending*.
- GSA SE Section Graduate Student Research Grant (2022) Project Title: Testing the zipper hypothesis for Alleghanian and Variscan Orogenies, Amount: \$2000 [PhD]
- AU Geosciences GAB Graduate Student Research Grant (2022) Project Title: Testing the zipper hypothesis for Alleghanian and Variscan Orogenies, Amount: \$640 [PhD]
- AU Geosciences GAB Graduate Student Research Grant (2021) Project Title: Thermal History of the Ross Orogen, Southern and Central Transantarctic Mountains, Amount: \$660 [PhD]
- GSA SE Section Graduate Student Research Grant (2021) Project Title: Thermal History of the Ross Orogen, Southern and Central Transantarctic Mountains, Amount: \$1500 [PhD]
- METU AdimODTÜ Undergraduate Student Research Grant (2018) Project Title: Determination of Provenance of a White Archaeological Stone using Petrography, Whole-Rock and Sr Isotope Geochemistry, Amount: 515 TL [BSc]

TRAVEL

- UF CLAS Faculty Travel Grant (2025) for GSA Connects, Amount: \$400
- AU Geosciences GAB Student Travel Grant (2023) for GSA Connects, Amount: \$500 [PhD]
- AU COSAM Graduate Student Travel Award (2023) for SEGSA/NEGSA Joint Meeting, Amount: \$500 [PhD]
- AU Graduate Student Council Travel Fellowship (2023) for SEGSA/NEGSA Joint Meeting, Amount: \$400 [PhD]
- AU Geosciences GAB Student Travel Grant (2023) for SEGSA/NEGSA Joint Meeting, Amount: \$250 [PhD]
- AU Geosciences GAB Student Travel Grant (2022) for AGU Fall Meeting, Amount: \$250 [PhD]
- GSA SE Section Travel Grant (2021) for GSA Connects, Amount: \$198 [PhD]
- AU COSAM Graduate Student Travel Award (2021) for GSA Connects, Amount: \$400 [PhD]
- AU Geosciences GAB Student Travel Grant (2021) for GSA Connects, Amount: \$460 [PhD]

HONORS

- AU Outstanding Doctoral Student Award (2023) [PhD]
- AU Charles Savrda Outstanding Graduate Student Award (2022) [PhD]
- METU Graduate Course Performance Award (2020) [MSc]
- METU Honor Student in 2018 Spring Semester [BSc]
- METU Honor Student in 2015 Fall Semester [BSc]

CERTIFICATES & TRAINING

SHORT COURSES

- *Detrital Geochronology and Thermochronology*, January 18th - February 3rd, 2021
Instructors: Igor M. Villa, Marco G. Malusa, Georgina King and Massimiliano Zattin
- *Principles and Applications of Fission Track and (U-Th)/He Thermochronology*, April 23rd, 2019
Instructors: Andrew J.W. Gleadow and Kip Hodges

WORKSHOPS

- *Positive Mental Health in the Geosciences*, October 19th, 2023.
Instructors: Cailin Huyck Orr and Rory McFadden
- *Methods and Geological Applications in Geo-Thermo-Petro-Chronology*, October 13-14th, 2023
Instructors: Mauricio Ibanez-Mejia, Allen Schaen, Kurt Sundell, Kendra Murray, Sarah George, Michelle Foley, Clay Campbell
- *Mobile Summer Institute on Scientific Teaching*, July 10-14th, 2023
Instructors: Melissa Michael and Debra Pires
- *Phase Equilibrium Modelling: Approaches and Pitfalls*, May 10-14th, 2021
Instructors: Dave Pattison, Jacob Forshaw, Pierre Lanari, Dave Waters, Mark Caddick and Doug Tinkham
- *Structural Geology and Global Tectonics: Links to Lithosphere Evolution and Mantle Geodynamics*, April 24-26th, 2019

SOFTWARES

- ArcGIS 1: Introduction to GIS and ArcGIS 2: Essential Workflows [June 2019]
- v.15 MapInfo Professional [February 2016]
- Encom Discover & Discover 3D [February 2016]

ESRI Turkey
Basarsoft*
Basarsoft*

*Official Representative of MapInfo in Turkey.

MEMBERSHIPS

- Geological Society of America [GSA]
- Geochemical Society
- American Geophysical Union [AGU]
- Society of Economic Geologists, Inc. [SEG]
- Sigma-Gamma-Epsilon Honors Society
- METU Alumni Association
- TED Ankara College Alumni Society