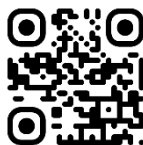


Ozan Sinoplu

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Website

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Education

- 2023-Ongoing University of Connecticut (UConn), Department of Earth Sciences, Storrs (CT), USA
Geology, Ph.D. | C.GPA: 3.93/4.00 | (Expected graduation in Summer, 2027)
Thesis: Detrital Monazite Double Dating in the Paganzo Basin: Unraveling Recycling and Basin Thermal Evolution in a Complex Orogenic Setting
- 2021-2023 Auburn University (AU), Department of Geosciences, Auburn (AL), USA
Geology, M.Sc. | C.GPA: 4.00/4.00
Thesis: Petrogenesis and Tectonic Implications of Almond Trondhjemite of Southern Appalachians in Alabama
- 2019-2020 China University of Geosciences Wuhan, Wuhan, CN
Geology, M.Sc. | Obstructed by COVID-19 Pandemic
Thesis: Investigating Upper Crustal Response to a Subduction Transform Edge Propagation (STEP) Fault in Fethiye-Burdur Fault Zone (Turkiye)
- 2012-2019 Middle East Technical University (METU), Dpt. of Geological Engineering, Ankara, TUR
Geological Engineering, B.Sc. | C.GPA: 3.12/4.00 (3.70/4.00 in department courses)
Graduation Project: Economic Evaluation of Granny Smith Gold Deposit, W. Australia

Publications

Peer-reviewed Papers

- Meng, J., Kusky, T. M., Bozkurt, E., Deng, H., & **Sinoplu, O.** (2024). Partitioning Anatolian Kinematics into Tectonic Escape and Slab Rollback Dominated Domains. *Journal of Earth Science*, 1-11. <https://doi.org/10.1007/s12583-023-1906-3>.
- Meng, J., **Sinoplu, O.**, Zhou, Z., Tokay, B., Kusky, T., Bozkurt, E., & Wang, L. (2021). Greece and Turkey Shaken by African tectonic retreat. *Scientific Reports*, 11(1), 1-10. <https://doi.org/10.1038/s41598-021-86063-y>.

Conference Abstracts

- Sinoplu, O.**, Biddle, J., Fosdick, J., Peterman, E., Ibanez-Mejia, M., Otamendi, J. (accepted). Radiation Damage, Chemical Zoning, and Helium Diffusion in Monazite: Toward Routine (U-Th)/(He-Pb) Double Dating of Monazite. GSA Connects 2025.
- Fosdick, J., Mota, A., Mooney, J., Mistry, T., **Sinoplu, O.**, Biddle, J., Milanesio, D., Palmero, L., Armas, P., Otamendi, J., Ouimet, W., C. (accepted). Catchment-wide Constraints on Long-term Erosion, Deformation, and Weathering to Resolve Tectonic and Climatic Controls in the Sierras Pampeanas (Argentina). GSA Connects 2025.
- Biddle, J., Milanesio, D., **Sinoplu, O.**, Fosdick, J., Otamendi, J., Armas, P., Mackaman-Lofland, C. (accepted). Provenance and metamorphism of the Cuyania basement and peri-Gondwana blocks in the Sierras Pampeanas of Argentina: Evolution of a Paleozoic microcontinent-arc collision zone. GSA Connects 2025
- Sinoplu, O.**, Biddle, J., Edgington, T., Fosdick, J., Milanesio, D., Mota, A., Armas, P., Otamendi, J., Peterman, E., Palmero, L. (2024). Comparative appraisal of detrital monazite-zircon U-Th-Pb age spectra in Paganzo Basin (Argentina): A step towards single grain double dating of monazite for basin analysis. Geological Society of America Abstracts with Programs. Vol. 56, No. 5, 2024.
- Biddle, J., **Sinoplu, O.**, Fosdick, J., Milanesio, D., Otamendi, J., Peterman, E., Cortyna, C. (2024). Thermal history and exhumation of the Western Gondwanan Famatinian orogen, Sierras Pampeanas, Argentina: a multi-geo-thermochronometric approach. Geological Society of America Abstracts with Programs. Vol. 56, No. 5, 2024.
- Sinoplu, O.**, Zou, H. (2022). Petrogenesis of Almond Trondhjemite and Its Implications in Southern Appalachian Tectonics. 2022 Fall Meeting, AGU in Chicago, IL, 12-16 December 2022.

Sinoplu, O., Meng, J., Kusky, T., Bozkurt, E. (2022). Structural Analysis of Cameli Basin in the Context of Fethiye Burdur Fault Zone, SW Anatolia 2022 Fall Meeting, AGU in Chicago, IL, 12-16 December 2022.

Meng, J., Kusky, T., Bozkurt, E., **Sinoplu, O.** (2022). A new perspective on Anatolian Kinematics. Geological Society of America, Abstracts with Programs. Vol 54, No. 5, 2022.

Meng, J., **Sinoplu, O.**, Zhou, Z., Tokay, B., Kusky, T., Bozkurt, E., and Wang, L. (2021). Unusual Mw 7.0 Extensional Aegean Earthquake Related to African Slab Rollback and Formation of Extensional Plate Boundary in Anatolia, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-8366.

Notable Experiences

2025	Organizing Committee Member, 1st Biannual Asian Conference on Thermochronology (planned for Summer 2026) <u>Ongoing</u> Contributing to the planning and execution of the inaugural conference, including organizing the scientific program, developing its online presence, and helping to coordinate logistical arrangements.
2023	Consultant Teori Earth Sciences, Türkiye <u>Ongoing</u> Providing consultancy on various mining-related geological and environmental projects, including Environmental Social Impact Assessment (ESIA) reports for World Bank financing. Contact: inanc.orge@teoriyerbilimleri.com
2022	AAPG Imperial Barrel Award with AU Team 2 Months Seismic interpretation on IHS Kingdom, regional geology, figure preparation.
2019	Economic Evaluation of Granny Smith Gold Deposit, W. Australia (BSc. graduation project) 3 Months 3D geological and ore body modelling using Leapfrog GEO and borehole data, resource estimation and economic analysis for various alternative scenarios (Equivalent of B.Sc. Thesis).
2018	Brownfield Exploration in Hod Maden Gold Deposit, NE. Anatolia 1 Month Geological and geotechnical drillcore logging (>1 km), gold assay sample selection from drill cores, rock sample collection in the field.
2017	Paleomagnetism Measurements in Utrecht University Fort Hoofddijk 5 Months Sample preparation, AMS, AF and Thermal Demagnetization for “Post Oligocene Evolution of N-W Himalayan front, Potwar Plateau and Salt Range (Pakistan)”.
2017	Brownfield Exploration in Efemcukuru Gold Deposit, W. Anatolia 2 Months Field mapping and rock sample collection, underground gallery wall mapping and sample collection, geological and geotechnical drillcore logging (>1,5 km), gold assay sample selection from drill-cores, surface and underground drill planning.
2016	EAGE Field Challenge with METU Team 2 Months Seismic interpretation on IHS Kingdom, regional geology, figure preparation.

Grants

2025	GSA Graduate Research Grant \$3000
2024	GSA Graduate Research Grant \$2500
2022	Auburn University Geosciences Advisory Board Research Grant \$640

Professional Memberships

Active	American Geophysical Union, Geological Society of America, Sigma Gamma Epsilon (SGE), AAPG, Sigma Xi
Past	Society of Economic Geologists, Turkish Association of Economic Geologists, Turkish Chamber of Geological Engineers

Software Skills

QGIS, ArcGIS, Global Mapper, Python, R, IHS Kingdom, Leapfrog GEO, Adobe Suite

Service

- GSA Fall Meeting 2025 (upcoming) Session Chair
Co-developing a topical session titled “Building the South American Cordillera, Paleozoic to Recent: Insights from Geo-Thermochronology”
- Invited Speaker – METU Undergraduate Geology Club
An invited talk titled “Postgrad Abroad: Tips, Tricks and Q&A”
- Adobe Illustrator Course and Expert Office Hours for Earth Sciences Students - UConn
Instructing colleagues and students in basic Adobe Illustrator tools and concepts for creating geological maps, cross-sections, block diagrams, and refining otherwise visualized data.
- Website Making Workshop for Earth Sciences Students - UConn
Instructing colleagues and students in the use of WIX to create a research-focused personal website.
- Captain and Coach of the Archery Team - METU
Coaching team members, managing equipment maintenance and technical adjustments, and coordinating logistics for multiple national championships.

Previous Coursework

University of Connecticut (Ph.D.)

Sequence Stratigraphy
Sedimentary Basin Analysis
Applied Data Analysis in Earth Sciences

Energy Resources: Past, Present and Future
Geoscience Core Course
Carbonate Platforms and Reefs

Auburn University (M.Sc.)

Isotope Geochemistry
GIS Programming
Petrology
Basin Analysis
Electron Microprobe Analysis

Imperial Barrel Award (AAPG IBA)
Tectonics
Introduction to X-Ray Powder Diffraction and Portable XRF
Geocommunication

Middle East Technical University (B.Sc.)

Basics

Calculus with Analytic Geometry
Calculus of Functions of Several Variables
Introduction to Differential Equations
General Physics (I-II)
General Chemistry (I-II)
English for Academic Purposes (I-II)
Academic Oral Presentation Skills
Principles of Economics
Russian 201 (A1)
Early Anatolian Civilizations

Engineering Concepts
Civil Engineering Drawing
Introduction to C Programming
Engineering Mechanics I: Statics
Engineering Mechanics II: Strength of Materials
Statistical Methods for Engineers
Introduction to Rock Mechanics
Soil Mechanics
Fluid Mechanics

Geology/Geological Engineering

Introduction to Geological Engineering
Physical Geology
Mineralogy
Mapwork
Petrography
Principles of Stratigraphy
Structural Geology
Igneous and Metamorphic Petrography
Geophysical Prospecting
Historical Geology and Paleontology
Geochemical Thermodynamics
Field Geology
Field Geological Mapping
Mineral Deposits
Geology of Turkey
Earthquake Geology
Tectonics
Stratigraphic and Palaeontologic Analysis in Exploration
Introduction to Remote Sensing
Engineering Geology
Hydrogeology
Computer Applications in Geological Engineering
Geological Engineering Design (I-II)
Summer Practice (I-II)
Global Tectonics (MSc. Course)