

Ozan Sinoplu

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Department of Earth Sciences, University of Connecticut
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Research Interests

(Active-) Tectonics, basin analysis through (detrital-) geo/thermochronology, geochemistry

Education

2023-Ongoing	University of Connecticut (UConn), Department of Earth Sciences, Storrs (CT), USA Geology, PhD C.GPA: 3.90/4.00 (Expected graduation in Summer, 2027)
2021-2023	Auburn University (AU), Department of Geosciences, Auburn (AL), USA Geology, MSc C.GPA: 4.00/4.00
2019-2020	China University of Geosciences, Wuhan (CUG), USA Geology, Not finished (Obstructed by COVID-19 Pandemic)
2012-2019	Middle East Technical University (METU), Dpt. of Geological Engineering, Ankara (TUR) Geological Engineering, BSc C.GPA: 3.12/4.00 (3.70/4.00 in department courses)

Publications

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., Edgington, T., Fosdick, J., Milanesio, D., Mota, A., Armas, P., Otamendi, J., Peterman, E., Palmero, L. (2024 – Accepted). 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. GSA Fall Meeting 2024, Anaheim CA, 22-25 September.
- Biddle, J., **Sinoplu, O.**, Fosdick, J., Milanesio, D., Otamendi, J., Peterman, E., Cortyna, C. (2024 – Accepted). Thermal history and exhumation of the Western Gondwanan Famatinian orogen, Sierras Pampeanas, Argentina: a multi-geo-thermochronometric approach. GSA Fall Meeting 2024, Anaheim CA, 22-25 September.
- 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, <https://doi.org/10.5194/egusphere-egu21-8366>.

Notable Experiences

- 2022 AAPG Imperial Barrel Award with Auburn University 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 different alternative scenarios (Equivalent of BSc. Thesis).
- 2018 Brownfield Exploration in Hod Maden Gold Deposit, NE. Anatolia
1 Month | Geological and geotechnical drillcore logging, gold assay sample selection from drillcores, 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, gold assay sample selection from drill-cores, surface and underground drill planning.

Grants

- 2024 GSA Graduate Research Grant
\$2500
- 2022 Auburn University Geosciences Advisory Board Research Grant
\$640
Auburn University Geosciences Advisory Board Travel Grant
\$250

Awards and Honors

Certificate of Achievement (2 times) | AU
Honour (4 times) and High Honour (2 times) Certificates | METU

Professional Memberships

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

Teaching Experiences

UConn

Earth's Dynamic Environment (Lab Teaching)

1 Semester | Introductory geology course for majors and non-majors on various topics.

Auburn University

Structural Geology (Lab Teaching)

1 Semester | Apparent dip and intersection problems, fault offset and fold problems using orthographic methods, orientation analyses using rose diagrams and contour maps, borehole problems and rotation problems using stereographic methods.

Dynamic Earth Lab Head TA

1 Semester | Leading weekly TA meetings, preparing exams and quizzes, managing lab supplies, managing online course page.

Dynamic Earth (Lab Teaching)

4 Semesters | Introductory geology course for majors and non-majors on various topics.

METU (Undergrad.)

Field Geology - Field Mapping (Lab and Field Teaching)

2 Semesters | 3rd grade course on field mapping, fault/joint/lineation and primary non-tectonic structure analyses with stereographic and orthographic projections, balanced cross

Structural Geology (Lab and Field Teaching)

1 Semester | 3rd grade course on apparent dip and intersection problems, fault offset and fold problems using orthographic methods, orientation analyses using rose diagrams and contour maps, borehole problems and rotation problems using stereographic methods.

Mapwork (Lab and Field Teaching)

3 Semesters | 2nd grade course on introduction to maps, construction of topographic maps and elevation profiles, bedding calculations, three-point problems, borehole logs, as well as fold, fault, unconformity and igneous rock patterns in geological maps and various case studies on these.

Physical Geology (Field Teaching)

2 Semesters | 2nd grade introductory course for geology majors on various topics.