

Ozan Sinoplu

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Education

- 2021-Ongoing Auburn University (AU), Department of Geosciences, Auburn (AL), USA
Geology, MSc | C.GPA: 4.00/4.00 | (Expected graduation in Summer, 2023)
- 2019-2020 China University of Geosciences, Wuhan (CUG), CN
Geology, MSc | Obstructed by COVID-19
- 2012-2019 Middle East Technical University (METU), Department of Geological Engineering, Ankara, TR
Geological Engineering, BSc | C.GPA: 3.12/4.00 (3.70/4.00 in GEO courses)

Research Interests

(Active) Tectonics, geo/thermochronology, structural geology, basin analysis, paleomagnetism, geochemistry, field geology

Publications | Citations: 18(Researchgate), h-index: 1 (as of 12.2022)

- Meng, J., Kusky, T., Bozkurt, E., **Sinoplu, O.** (Under review). Partitioning Anatolian kinematics into tectonic escape and slab rollback dominated domains. *Submitted to The Journal of Geophysical Research: Solid Earth.*
- 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.*

Sinoplu, O., Zou, H. Petrogenesis of Almond Trondhjemite and Its Implications in Southern Appalachian Tectonics. 2022 Fall Meeting, AGU in Chicago, IL, 12-16 December.

Sinoplu, O., Meng, J., Kusky, T., Bozkurt, E. 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.

Meng, J., Kusky, T., Bozkurt, E., **Sinoplu, O.** (2022, October). 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., & Wang, L. (2021, April). Unusual Mw 7.0 Extensional Aegean Earthquake Related to African Slab Rollback and Formation of Extensional Plate Boundary in Anatolia. *In EGU General Assembly Conference Abstracts (pp. 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)"
- 2016 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 drillcores, surface and underground drill planning.

Teaching Experience

AU
Graduate Teaching Assistant

Structural Geology (Lab Teaching)

Current | Apparent dip and intersection problems, fault offset and fold problems using orthographic methods, orientation analyses using rose diagrams and contour maps, structural rock fabrics.

Dynamic Earth Lab Head TA

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

Dynamic Earth (Lab Teaching)

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

METU
Undergraduate Teaching Assistant

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 section preparation.

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)

2 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.

Grants

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

Languages

Turkish | Native
Chinese | Beginner

English | Advanced (TOEFL Score: 106/120)***
R:29, L:29, S:23, W:25

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

Software Skills

Macromedia Freehand, Adobe Illustrator, QGIS, Global Mapper, ArcGIS, Iolite, IHS Kingdom, Leapfrog GEO, Midland Valley Move, AutoCAD

Previous Coursework

Auburn University (Geology, MSc.)

Tectonics (A)	Electron Microprobe Analysis (A)
Geocommunication (A)	Petrology (A)
Introduction to X-Ray Powder Diffraction (A)	GIS Programming (A)
Basin Analysis (A)	

Middle East Technical University (Geological Engineering, BSc.)

Basics

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

Engineering Concepts

Civil Engineering Drawing (AA)
Introduction to C Programming (BB)
Engineering Mechanics I: Statics (BA)
Engineering Mechanics II: Strength of Materials (DC)
Statistical Methods for Engineers (BB)
Introduction to Rock Mechanics (CB)
Soil Mechanics (BA)
Fluid Mechanics (DC)

Geology/Geological Engineering

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

Utrecht University (Erasmus+ Exchange, BSc)

Geochemical Cycles (-)	Paleoenvironments (-)
Paleoceanography (-)	Paleoclimatology (-)