EL HACHEMI BOUALI, PH.D.

ASSISTANT PROFESSOR OF GEOSCIENCES, NEVADA STATE UNIVERSITY

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1300 Nevada State Drive, LAS 264
Henderson, NV 89002

EDUCATION

PhD	Michigan Technological University, Geology	August 2018
MS	Western Michigan University, Geoscience	December 2013
BS	Western Michigan University, Geophysics Graduated Cum Laude, Lee Honors College Minor in Mathematics and Astronomy	April 2011
AS	Kalamazoo Valley Community College	May 2007

POSITIONS

Assistant Professor of Geosciences
Nevada State University[1], Henderson, NV — 2020 to present
Department of Physical and Life Sciences

Thomas McKenna Meredith '48 Postdoctoral Fellow in Environmental Science
Trinity College, Hartford, CT — 2018 to 2020
Environmental Science Program

Independent Remote Sensing Contractor
Clients: Michigan Technological University and World Bank — 2018
Project: Critical Slope Monitoring using InSAR and COSI-Corr in Southeast Asia

NASA Earth and Space Science Fellow
Michigan Technological University, Houghton, MI — 2016 to 2018
Department of Geological & Mining Engineering & Sciences

Geological Mapping Technician
National Parks Service, GeoCorps (2015), and AmeriCorps (2016) — 2015 and 2016
Pictured Rocks National Lakeshore

Graduate Research Assistant
Michigan Technological University, Houghton, MI — 2014 to 2016
Department of Geological & Mining Engineering & Sciences

[1] Official name change from Nevada State College to Nevada State University on July 1, 2023

Graduate Teaching and Research Assistant
Western Michigan University, Kalamazoo, MI 2011 to 2013
Department of Geosciences

AWARDS AND HONORS ($256,147)

Awards and Scholarships Earned by Undergraduate Student Mentees

2024-2025 Mikayla Ward, NSF EPSCoR UROP ($4,000)
2024-2025 Maferima Diaby, NSF EPSCoR UROP (as Co-PI) ($4,000)
2024 Hannah Newmarker, Undergrad Research Opportunities Program, NSHE ($7,200)
2023-2024 Hailey Will, Nevada NASA Space Grant Scholarship ($3,000)
2023 Tiffany Bertrand, Nevada NASA Space Grant Scholarship ($3,000)
2022-2023 Adonis Gonzales, NSF EPSCoR UROP (as Co-PI) ($4,750)
2022-2023 Shawna Hunnicutt, Nevada NASA Space Grant Scholarship ($3,000)
2022-2023 Shawna Hunnicutt, NSF EPSCoR UROP ($4,750)
2022 Shawna Hunnicutt, Undergrad Research Opportunities Program, NSHE ($8,200)
2019 Chuck Sweeney, Summer Research Program, Trinity College ($3,500)

External Fellowships, Grants, and Awards

2023 Nevada INBRE Pilot Grant PLUS Award ($20,000)
2023 Nevada INBRE Student Undergraduate Research Fellowship ($18,000)
2022 Nevada INBRE Scientific Core Service Award ($1,280)
2022 Nevada INBRE Technology Access Award ($2,652)
2022 Nevada INBRE Student Undergraduate Research Fellowship ($24,000)
2021 Nevada INBRE Student Undergraduate Research Fellowship ($12,000)
2018 U.S. Society on Dams Scholarship: 1st Place Finalist ($8,000)
2016-2018 NASA Earth and Space Science Fellowship ($75,000)
2016 Segal AmeriCorps Education Award ($1,515)
2016 Richard W. and June T. Lemke Scholarship, AEG Foundation ($300)
2015-2016 Michigan Space Grant Consortium Graduate Fellowship ($10,000)
2015 Travel Grant, GSA North-Central Section ($300)
2014 Platinum Corporate Sponsor Award, AEG Foundation ($300)

Academic Awards

2024 LASB Full-Time Faculty to Student Mentoring Excellence Award, NSU
2024 Be State Award, Nevada State University ($500)
2024 NSHE Board of Regents Rising Researcher Award ($2,000)
2021-2022 Sponsored Projects Seed Award, Nevada State College ($2,000)
2018-2019 Community Learning Faculty Fellow, Trinity College ($1,000)
2018 Dean's Award for Outstanding Scholarship, MTU
2014, 2015, 2016 Travel Grant, MTU Graduate Student Government ($900)
2013 W. David Kuenzi Memorial Award, WMU Department of Geosciences
2011, 2012 WMU Department of Geosciences' Appreciation Scholarship
2011 Undergraduate Presidential Scholar in Geosciences, WMU

2011 Senior Honor Award in Geophysics, WMU Department of Geosciences
2011 Distinguished Student Service Award, WMU Department of Geosciences
2010 L. Schmaltz Undergraduate Scholarship in Geology, WMU Dept. of Geosciences
2007-2010 C.L. Remynse Scholarship, Kalamazoo Community Foundation ($30,000)
2007 Transfer Academic Scholarship, KVCC and WMU ($1,000)

PUBLICATIONS

*Undergraduate student

Peer-Reviewed Publications

Hunnicutt S*, **Bouali EH**, Sigel B (in preparation) Bacterial and archaeal communities in high elevation cold springs, Spring Mountains, Nevada.

VanderMeer S, **Bouali EH**, Kehew A, Sauck W, and Gillespie R (2022) Buried bedrock valleys revealed in Michigan's central Upper Peninsula using horizontal-to-vertical spectral ratio passive seismic method. *Journal of Great Lakes Research*, 48(5):1140-1146. https://doi.org/10.1016/j.jglr.2022.06.007.

Aswathi J, Sajinkumar KS, Rajaneesh A, Oommen T, **Bouali EH**, Binojkumar RB, Rani VR, Thomas J, Thrivikramji KP, Ajin RS, and Abioui M (2022). Furthering the precision of RUSLE soil erosion with PSInSAR data: an innovative model. *Geocarto International*, 27:16108-16131. https://doi.org/10.1080/10106049.2022.2105407.

Aswathi J, Binojkumar RB, Oommen T, **Bouali EH**, Sajinkumar KS (2022) InSAR as a tool for monitoring hydropower projects: A review. *Energy Geoscience*, 3(2):160-171. https://doi.org/10.1016/j.engeos.2021.12.007.

Bouali EH and Sweeney C* (2021). Collapsed and non-collapsed ice-marginal glaciodeltaic morphosequence structure mapped with ground penetrating radar in central Connecticut. *Near Surface Geophysics*, 19(5):583-602. https://doi.org/10.1002/nsg.12170.

Pooja B, Oommen T, Sajinkumar KS, Nair AG, Rajaneesh A, Aswathi J, **Bouali EH**, and Thrivikramji KP (2021) Correspondence of PSInSAR monitoring and Settle3 modelling at Cochin International Airport, SW India. *Applied Geomatics*, https://doi.org/10.1007/s12518-021-00387-y.

Rajaneesh A, Logesh N, Vishnu CL, **Bouali EH**, Oommen T, Midhuna N, and Sajinkumar KS (2021) Monitoring and mapping of shallow landslides in tropical environment using persistent scatterer interferometry: A case study from the Western Ghats, India. *Geomatics*, 1(1):3-17. https://doi.org/10.3390/geomatics1010002.

Sajinkumar KS, Bincy HS, **Bouali EH**, Oommen T, Vishnu CL, Anilkumar Y, Thrivikramji KP, and Keerthy S (2020) Picturing beach erosion and deposition trends using PSInSAR: An example from the non-barred southern west coast of India. *Wetlands Ecology and Management*, https://doi.org/10.1007/s11273-020-09706-3.

Bouali EH, Oommen T, and Escobar-Wolf R (2019) Evidence of landslide activity outside previously-mapped zones as measured using GPS, optical, and SAR data between 2007

and 2017: A case study in the Portuguese Bend landslide complex, California. *Remote Sensing*, 11(8):937. https://doi.org/10.3390/rs11080937.

DePrekel K*, **Bouali EH**, and Oommen T (2018) Monitoring the impact of ground water pumping on infrastructure using geographic information system (GIS) and persistent scatterer interferometry (PSI). *Infrastructures*, 3(4):57. https://doi.org/10.3390/infrastructures3040057.

Bouali EH, Oommen T, and Escobar-Wolf R (2018) Mapping of slow landslides on the Palos Verdes Peninsula using the California landslide inventory and persistent scatterer interferometry. *Landslides*, 15(3):439-452. https://doi.org/10.1007/s10346-017-0882-z.

Bouali EH, Oommen T, Vitton S, Escobar-Wolf R, and Brooks C (2017) Rockfall Hazard Rating System: Benefits of utilizing remote sensing. *Environmental and Engineering Geoscience*, 23(3):165-177. https://doi.org/10.2113/gseegeosci.23.3.165.

Bouali EH, Oommen T, and Escobar-Wolf R (2016) Interferometric stacking toward geohazard identification and geotechnical asset monitoring. *Infrastructure Systems*, 22(2):05016001. https://doi.org/10.1061/(ASCE)IS.1943-555X.0000281.

Conference Proceedings and Papers

Bouali EH, Oommen T, and Sajinkumar KS (2018) Monitoring India's dams from space: A cost-effective approach using Sentinel-1 radar images. International Dam Safety Conference 2018, Thiruvananthapuram, Kerala, India.

Bouali EH, Oommen T, and Escobar-Wolf R (2017) Structure mapping through spatial and temporal deformation monitoring using persistent scatterer interferometry and geographic information systems. Geotechnical Frontiers 2017, GSP 278:509-519. https://doi.org/10.1061/9780784480458.052.

Book Chapters, Technical Reports, and Articles

Bouali EH (2021) Chapter 3.4 Case History 4: Differential Movement of Casitas Dam. In: Stark TD, Oommen T, and Ning Z (eds.) Remote Sensing for Monitoring Embankments, Dams, and Slopes: Recent Advances, GSP 322. American Society of Civil Engineers, 55-62. https://doi.org/10.1061/9780784415726.

Oommen T, Escobar-Wolf R, and **Bouali EH** (2019) Proactive monitoring and assessment of critical slopes using remote sensing in the transport sector, south Asia. World Bank, Contract #718842, 73 p.

Bouali EH (2018) Numerical analysis of embankment and berm settlement based on InSAR remote sensing measurements. *USSD Dams & Levees: Bulletin of the United States Society on Dams*, Summer 2018, 175:41-43

Oommen T, **Bouali EH**, and Escobar-Wolf R (2018) New paradigm in geotechnical performance monitoring using remote sensing. In: Ilampaturhi K and Robinson RG (eds.) Geotechnical Design and Practice: Selected Topics. Springer Verlag, Singapore, 195-201. https://doi.org/10.1007/978-981-13-0505-4_17.

Escobar-Wolf R, **Bouali EH**, and Oommen T (2016) Risk Assessment. In: Bobrowsky PT and Marker B (eds.) Earth Science Series Encyclopedia of Engineering Geology. Springer International Publishing AG Switzerland, 1-4.

Escobar-Wolf R, **Bouali EH**, Oommen T, Dobson R, Vitton S, Brooks C, and Lautala P (2016) Candidate remote sensing techniques for the different transportation environments, requirements, platforms, and optimal data fusion methods for assessing the state of geotechnical assets. Michigan Technological University, USDOT Cooperative Agreement No. RITARS-14-H-MTU, 152 p.

Escobar-Wolf R, **Bouali EH**, Oommen T, Dobson R, Vitton S, Brooks C, and Lautala P (2015) Final Report: Sustainable geotechnical asset management along the transportation infrastructure environment using remote sensing. Michigan Technological University, USDOT Cooperative Agreement No. RITARS-14-H-MTU, 137 p. https://rosap.ntl.bts.gov/view/dot/38809.

Bouali EH, Oommen T, and Escobar-Wolf (2015) Ground feature monitoring using satellite imagery. *ASCE Geostrata*, 19(4):52-57.

INVITED TALKS

*Undergraduate student

Bouali EH and Sigel B (2023) Sky islands near Las Vegas Valley. Association of Medical Illustrators 2023 Annual Conference, 21 July, Henderson, NV.

Bouali EH and Hunnicutt S* (2022) Geophysical and surface processes research in southern Nevada. Southern Nevada Agency Partnership Science Research Team Webinar Series, 16 November, Las Vegas, NV [virtual].

Hunnicutt S* and **Bouali EH** (2022) Analyses of spring water chemistry and microbiology in the Spring Mountains, Nevada. AEG Annual Meeting, 12-17 September, Las Vegas, NV.

Bouali EH (2020) A geotechnical and remote sensing approach to monitor rock slope stability within a railroad corridor near Caliente, Nevada. AEG Southern Nevada Chapter, 10 November, Las Vegas, NV [virtual].

Bouali EH (2020) Remote sensing and geophysical techniques for shallow earth exploration. Biology and Environmental Science Colloquium, Nevada State College, 17 September, Henderson, NV [virtual].

Bouali EH (2020) Introduction to plate tectonics. Piedmont Virginia Community College, 27 February, Charlottesville, VA.

Bouali EH (2020) Wildfires. Nevada State College, 11 February, Henderson, NV.

Bouali EH (2020) Surface processes and environmental change: Applications combining remote sensing, near-surface geophysics, and traditional fieldwork. SUNY Fredonia, 31 January, Fredonia, NY.

Bouali EH (2020) Natural hazard lifecycle modeling: A long-term, multi-sensor and geophysical approach to studying the impacts of earth surface processes. University of Alaska Anchorage, 21 January, Anchorage, AK.

Bouali EH (2019) Advantages and limitations of remote sensing for landslide detection, mapping, and (ultimately) prediction. Central Connecticut State University, 1 November, New Britain, CT.

Bouali EH (2018) Monitoring unstable slopes using remote sensing and geodetic techniques for sustainable asset management. Thomas McKenna Meredith '48 Lecture in Environmental Science, Trinity College, 19 October, Hartford, CT.

MEDIA INTERVIEWS

Interview with Grace Toohey, Staff Writer. "Their neighbors lost everything in a massive landslide. Now they fear for their homes." *Los Angeles Times*, 29 November 2023, https://www.latimes.com/california/story/2023-11-29/winter-rains-could-bring-new-problems-after-rolling-hills-estates-landslide.

Interview with Alex Cohen, Host of Inside the Issues. *Inside the Issues*, Spectrum News 1, 11 August 2023, https://spectrumnews1.com/ca/la-west/inside-the-issues/2023/08/11/california-gop-changes-delegate-rules

Interview with Grace Toohey, Staff Writer. "Forced from homes by Rolling Hills Estates landslide, weary residents could wait weeks for answers." *Los Angeles Times*, 23 July 2023, https://www.latimes.com/california/story/2023-07-23/rolling-hills-estates-landslide-geological-investigation-residents-wait-weeks.

Interview with Jason Henry, Staff Writer. "Whether rain or a leaky pipe, water is the likely culprit in Rolling Hills Estates landslide." *Daily Breeze*, 16 July 2023, https://www.dailybreeze.com/2023/07/16/whether-rain-or-a-leaky-pipe-water-is-the-likely-culprit-in-rolling-hills-estates-landslide/.

Interview with Jack Flemming, Staff Writer. "In pricey Palos Verdes, the ocean view is great—until your house slides into a canyon." *Los Angeles Times*, 13 July 2023, https://www.latimes.com/california/story/2023-07-13/rolling-hills-estates-landslide-cause-palos-verdes-peninsula.

Interview with Jack Flemming, Staff Writer. "A chunk of Rancho Palos Verdes is sliding into the sea. Can the city stop it?" *Los Angeles Times*, 6 March 2023, https://www.latimes.com/california/story/2023-03-06/a-big-chunk-of-palos-verdes-peninsula-is-sliding-into-the-sea-can-the-city-stop-it.

CONFERENCE AND MEETING PRESENTATIONS (PAST 5 YEARS)

*Undergraduate student
†High school student

Will H*, VanderMeer S, and **Bouali EH** (2024) Textural analysis of glacial landform sediment from Pictured Rocks National Lakeshore, Michigan. [Poster] Nevada State

University Undergraduate Research and Creative Works Conference, 26 April, Henderson, NV.

Hosier R* and **Bouali EH** (2024) Textural analysis of landslide deposits. [Poster] Nevada State University Undergraduate Research and Creative Works Conference, 26 April, Henderson, NV.

Andrino G* and **Bouali EH** (2024) Exploring bacterial communities in spring waters using R Studio. [Poster] Nevada State University Undergraduate Research and Creative Works Conference, 26 April, Henderson, NV.

Bouali EH (2024) Passive seismology applications in the Las Vegas Valley. [Oral Talk] Nevada Space Grant and NASA EPSCoR Statewide Meeting, 19 April, Las Vegas, NV.

Newmarker H*, Arancibia R*, Hosier R*, and **Bouali EH** (2023) Some springs just can't hold their arsenic: Arsenic content level in the Spring Mountains, Nevada. [Poster] Nevada INBRE Annual Conference, 19 October, Las Vegas, NV.

Bertrand T* and **Bouali EH** (2023) Application of passive seismology in the Las Vegas Valley: A preliminary survey. [Poster] 11th Annual STEM Student Research Poster Symposium, 29 September, Henderson, NV.

Hosier R*, Newmarker H*, Arancibia R*, and **Bouali EH** (2023) Soil chemistry of the Spring Mountains: Preliminary results. [Poster] 11th Annual STEM Student Research Poster Symposium, 29 September, Henderson, NV.

Newmarker H*, Arancibia R*, Hosier R*, and **Bouali EH** (2023) Some springs just can't hold their arsenic: Arsenic content level in the Spring Mountains, Nevada. [Poster] 11th Annual STEM Student Research Poster Symposium, 29 September, Henderson, NV.

Arancibia R*, Newmarker H*, Hosier R*, and **Bouali EH** (2023) Spring Mountains water chemistry change due to transport. [Poster] 11th Annual STEM Student Research Poster Symposium, 29 September, Henderson, NV.

Hunnicutt S* and **Bouali EH** (2023) Comparison of bacterial communities between two springs of the Spring Mountains. [Poster] Nevada State College Undergraduate Research and Creative Works Conference, 28 April, Henderson, NV.

Gonzalez A*, **Bouali EH**, Cooper D, and Wong A (2023) Adaptation of the indigo carmine method using spectroscopy. [Poster] Nevada State College Undergraduate Research and Creative Works Conference, 28 April, Henderson, NV.

Hunnicutt S* and **Bouali EH** (2022) Analyses of spring water chemistry and microbiology in the Spring Mountains, Nevada. [Poster] 10th Annual STEM Student Research Poster Symposium, 30 September, Henderson, NV.

Diaz Y*, Rodarte A*, Mora J*, and **Bouali EH** (2022) Impact of groundwater sourced from snowmelt on water parameters at Deer Creek Springs and Harris Springs, Nevada. [Poster] 10th Annual STEM Student Research Poster Symposium, 30 September, Henderson, NV.

Gonzalez A* and **Bouali EH** (2022) Spectroscopy of dissolved oxygen readings from spring water. [Poster] 10th Annual STEM Student Research Poster Symposium, 30 September, Henderson, NV.

Hunnicutt S* and **Bouali EH** (2022) Analyses of spring water chemistry and microbiology in the Spring Mountains, Nevada. [Poster] AEG Annual Meeting, 12-17 September, Las Vegas, NV.

Oommen T, **Bouali EH**, Sajinkumar KS, Corcoran MK, and Dunbar JB (2021) Using radar remote sensing from space to monitor dams. [Oral Talk] Geo-Extreme 2021: Geotechnical Engineering for Extreme Events, 7-10 November, Savannah, GA.

Andrino G*, Joachim A*, and **Bouali EH** (2021) Salinity of springs in the Spring Mountains, Nevada. [Poster] Joint Annual STEM Student Research Poster and UNR Neuroscience Symposium. 7 October, Henderson, NV.

Joachim A*, Andrino G*, and **Bouali EH** (2021) Quality of spring waters in the Spring Mountains, Nevada. [Poster] Joint Annual STEM Student Research Poster and UNR Neuroscience Symposium. 7 October, Henderson, NV.

Bouali EH and Sweeney C* (2020) Ice-marginal deltaic deposits of the Cromwell delta in central Connecticut mapped using ground penetrating radar. [Virtual Poster] GSA 2020 Connects Online, 26-30 October, Virtual Meeting.

Bouali EH and Sweeney C* (2020) Ice-marginal deltaic deposits of the Cromwell delta in central Connecticut mapped using ground penetrating radar. [Abstract] GSA Joint 69th Annual Southeastern / 55th Annual Northeastern Section Meeting, 20-22 March, Reston, VA. (Meeting canceled due to COVID-19 pandemic)

Radulescu A† and **Bouali EH** (2020) Spatiotemporal mapping and statistical analysis of native, endemic, and invasive florae using vegetation index data from multispectral optical imagery in the Galapagos islands. [Virtual Poster] 72nd Annual Connecticut Science & Engineering Fair, Quinnipiac University, 9-14 March, Hamden, CT.

Sweeney C* and **Bouali EH** (2019) Using ground penetrating radar to map subsurface glacial delta deposits. [Poster] 15th Annual Summer Research Symposium, Trinity College, 24 September, Hartford, CT.

ACADEMIC SERVICE AND LEADERSHIP EXPERIENCE

2024-present	Vice Chair, Faculty Senate, NSU
2023-2024	Secretary, Faculty Senate, NSU
2023-present	Academic Faculty Affairs Committee Chair, Faculty Senate, NSU
2023-present	Institutional Policy and Procedures Committee, Faculty Senate, NSU
2023-present	Sabbatical Review Committee Chair, Faculty Senate, NSU
2022-present	LASB Faculty Senator, NSC/NSU
2022-present	Academic Faculty Affairs Committee Member, Faculty Senate, NSC/NSU
2022	Poster Presentation Judge, Student World Water Forum, UNR
2022	Poster and Oral Presentation Judge, Geosymposium, UNLV
2022	LAS Awards Committee Member, NSC

2021	Essential Learning Outcomes in the Core Curriculum Workshop, NSC
2021	Poster Judge, Undergraduate Research and Creative Works Conference, NSC
2020-2022	LAS Strategic Planning Committee, Low Enrollment Programs, NSC
2020-2021	Senate Committee of Part-Time Faculty Affairs, NSC
2019-2020	Health and Wellness Committee, Trinity College
2011-2013	Graduate Member of Academic Integrity Committee, WMU
2010-2011	Undergraduate Member of Academic Integrity Committee, WMU
2010-2011	Geology Club President, WMU Department of Geosciences
2009-2010	Student Volunteer, Michigan Geological Repository for Research & Education

PROFESSIONAL SERVICE

2023-present	Nevada NASA Space Grant Consortium Site Director for NSU
2022-present	Treasurer, AEG Southern Nevada Chapter
2021-present	AEG Southern Nevada Chapter Advisory Board
2019-present	Remote Sensing (ISSN 2072-4292) Reviewer Board

2021-2022	Interim Treasurer, AEG Southern Nevada Chapter
2017	Technical Session Moderator. AEG Annual Meeting, TS #22: InSAR Applications for Geology and Geological Engineering.
2017	Panel Member. RIVIT Conference, UAS Technology Challenges & Opportunity.
2017	Student Volunteer, AEG Annual Meeting in Colorado Springs, CO
2016	Technical Session Moderator. AEG Annual Meeting, TS #12: Application of Geophysics to Geotechnical Investigations, TS #13: Geophysics and Remote Sensing in Engineering Geology: Case Studies and Advances using Geophysics, Drones and Satellites.
2016	Student Volunteer, AEG Annual Meeting in Kona, HI
2015	Student Volunteer, AEG Annual Meeting in Pittsburgh, PA

Book/Chapter Editor

Abouelmagd A and Ahmed M (2023) Groundwater in North Africa: Effects of Climate and Anthropogenic Pressures on Groundwater Availability. In: The Geology of North Africa, Regional Geology Reviews Series, Springer.

Journal Peer-Reviewer (55 articles)

AIMS Geoscience (1); Applied Sciences (7); Climate (1); Geo-Extreme (1); Geomatics, Natural Hazards and Risk (1); Forests (2); ISPRS International Journal of Geo-Information (1); Journal of the Optical Society of America (1); Remote Sensing (35); Sustainability (2); Water (3)

COURSES TAUGHT

Department of Physical and Life Sciences, Nevada State University

AST 103 Introduction to Astronomy: Solar System (lecture)
BIOL 492 Undergraduate Research
BIOL/ENV 494 Biology/Environmental Science Colloquium (seminar)
BIOL 497 Senior Thesis
ENV 492 Undergraduate Research
GEOG 117 Meteorology/Climatology (lecture)
GEOL 101A Exploring Planet Earth Lecture
GEOL 101L Exploring Planet Earth Lab
GEOL 333 Principles of Geomorphology (lecture and lab)
GEOL 405 Geology of the National Parks (lecture)
NRES 322 Soils (lecture)
NRES 467 Regional and Global Issues in Environmental Science (lecture)
NRES 485 Special Topics: Remote Sensing Theory and Applications (lecture)

Environmental Science Program, Trinity College

ENVS 112 Introduction to Earth Science (lecture)
ENVS 115 Natural Disasters (lecture)
ENVS 310 Environmental Geophysics (lecture)
ENVS 399 Independent Study
ENVS 425 Research in Environmental Science Lab
ENVS 466 Teaching Assistantship
ENVS 497 Honors Research

Department of Geological Sciences, Western Michigan University

GEOL 1000 Earth Studies (lab)
GEOS 1310 Historical Geology (lab)
GEOS 4300 Structural Geology (lab)
GEOS 4380 Field Studies in Geology (field course in Upper Peninsula of Michigan)
GEOS 4390 Geological Mapping (field course in Upper Peninsula of Michigan)
GEOS 5600 Introduction to Geophysics (lab)

PROFESSIONAL AFFILIATIONS (CURRENT)

American Institute of Professional Geologists
Association of American Colleges and Universities
Association of College and University Educators
Association of Environmental & Engineering Geologists + Southern Nevada Chapter

SOCIAL MEDIA CONTACTS

Research Gate https://www.researchgate.net/profile/El_Hachemi_Bouali

LinkedIn https://www.linkedin.com/in/el-hachemi-bouali-60b385149/
ORCID iD https://orcid.org/0000-0002-4663-3191