

Matthew B. Nix

Graduate Student (M.S.), Department of Geological Sciences

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Education

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| 2021 (Anticipated) | M.S., Geological Sciences, University of Texas at Austin |
| 2020 | Engineer Basic Officer Leaders Course, United States Army Engineer School |
| 2019 | B.S. (with High Honors and Special Honors), Geology, University of Texas at Austin |
| 2015 - 2019 | Army Reserve Officers' Training Corps (Distinguished Military Graduate), The University of Texas at Austin |

Professional Experience

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| 2019 – present | Teaching Assistant, Department of Geological Sciences, The University of Texas at Austin |
| 2019 – present | Horizontal Construction Platoon Leader/Project Manager, United States Army Reserve |
| May 2019 – August 2019 | Geology Intern, EOG Resources, Inc. (San Antonio, Texas) |
| June 2020 – August 2020 | Geology Intern, EOG Resources, Inc. (Artesia, New Mexico) |

Projects

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| 2019 – Present | Shifts in deposition, sediment dispersal, and provenance of the Kootenay and Blairmore Groups: Implications for foreland basin dynamics in the Western Canada Sedimentary Basin – Supervisor: Dr. Brian K. Horton |
| 2017 - 2019 | Controls on the Sedimentation and Morphology of an Oxbow Lake – Supervisor: Dr. David Mohrig |

Research Theses

Matthew B. Nix. *Controls on the Sedimentation and Morphology of an Oxbow Lake*. Undergraduate Honors Thesis, University of Texas at Austin, May 2019.

Presentations

Nix, M., Hassenruck-Gudipati, H., Swartz, J., Mason, J., Sylvester, Z., Mohrig, D. (2018, December). *Controls on the sedimentation and morphology of an oxbow lake along the Trinity River, Texas, USA*. Poster Session presented at the Fall (2018) meeting of the American Geophysical Union, Washington, D.C.

Honors and Awards or Leadership

2020	The Army Achievement Medal, Secretary of the Army
2020	EBOLC Commandant's Award, The Association of the U.S. Army
2019	Distinguished Military Graduate, Department of the Army Reserve Officers' Training Corps
2019	University High Honors, The University of Texas at Austin
2019	Special Honors in Geological Sciences, Jackson School of Geosciences, The University of Texas at Austin
2019	College Scholar, The University of Texas at Austin
2019	Undergraduate Merit-Based Scholarship, Jackson School of Geosciences, The University of Texas at Austin
2018	The Colonel Lawson W. Magruder Jr. Scholarship, Lawson W. Magruder III, LTG, U.S. Army Retired
2018	Super Cadet Decoration Award, The Department of the Army
2018	College Scholar, The University of Texas at Austin
2018	Undergraduate Merit-Based Scholarship, Jackson School of Geosciences, The University of Texas at Austin
2018	The University of Texas at Austin Undergraduate Research Fellowship
2018	The Maby Scholarship, Houston Geological Society
2017	College Scholar, The University of Texas at Austin
2017	Silver Scholastic Medal, The American Legion Department of Texas
2017	Undergraduate Merit-Based Scholarship, Jackson School of Geosciences, The University of Texas at Austin

2016	Bronze Scholastic Medal, The American Legion Department of Texas
2016	Superior Cadet Decoration Award, The Department of the Army
2016	Undergraduate Merit-Based Scholarship, Jackson School of Geosciences, The University of Texas at Austin
2016	United States Army Reserve Officers' Training Corps 4-Year National Academic Scholarship

Research Interests

Tectonic signatures in the stratigraphic record

Evolution of contractional orogenic belts and associated foreland basin development

Sedimentary geochronology, provenance and routing systems

Influence of tectonics on erosion, sedimentation, and basin evolution

Integration of geochronology, heavy mineral analysis, and sandstone petrology with basin analysis

Physical sedimentology of modern and ancient basin associated depositional systems

Mechanisms for unconformity causation in relation to foreland basin dynamics/evolution

Research Grants

[2] 2020 AAPG Grants-in-Aid Program - R. Randy Ray Memorial Grant. *Shifts in deposition, sediment dispersal, and provenance for the Kootenay and Blairmore Groups: Implications for foreland basin dynamics in the Western Canada Sedimentary Basin.*

\$ 3000.00 (2020-2021)

[1] 2020 GSA Research Grants. *Shifts in deposition, sediment dispersal, and provenance for the Kootenay and Blairmore Groups: Implications for foreland basin dynamics in the Western Canada Sedimentary Basin.*

\$ 1375.00 (2020-2021)

Professional Affiliations

American Institute of Professional Geologists, The Geological Society of America, American Association of Petroleum Geologists, Houston Geological Society

Courses served as Teaching Assistant

2019 -2020	Earth Materials, Jackson School of Geosciences, The University of Texas at Austin
2020-2021	Physical Geology, Jackson School of Geosciences, The University of Texas at Austin