Congratulations 2018 Earth and Environmental Sciences Graduates!

**MS**

Aislinn Deely  
Photon dose effects dissolved organic matter apparent quantum yields in Alaskan Arctic surface waters

Joseph El Adli  
Season of death of the Bowser Road mastodon

Gabrielle Farina  
1500 years of anchovy and sardine population response to coastal upwelling off Southern California

Ryan Gabelman  
Olivine-melt thermometry, hygrometry and oxybarometry applied to lavas erupted from the Mascaita volcanic field, western Mexico

Matthew Medina  
Genomic and transcriptomic evidence for niche partitioning among sulfate-reducing bacteria in redox-stratified cyanobacterial mats of the Middle Island Sinkhole

Molly Range  
Global Simulation of the Chicxulub Impact Tsunami

Gephen Sadove  
Structurally bound S²–, S¹⁻, S⁴⁺ in apatite: The redox evolution of ore fluids at the Phillips Mine ore deposit, New York, USA

**PhD**

Alyssa Abbey  
Assessing Rio Grande rift evolution and interaction with the southern Rocky Mountains using techniques in low-temperature thermochronometry

Joseph El Adli  
Reproductive Life Histories of Woolly Mammoths

Benjamin Gebarski  
The electronic and atomic structure of actinide contaminants at the mineral-fluid interface

Chenghuan Guo  
Multicomponent Diffusion in Basaltic Melts

Trever Hines  
Transient Ground Deformation in Tectonically Active Regions and Implications for the Mechanical Behavior of the Crust and Upper Mantle

Sean Hurt  
The Structure and Thermodynamic Properties of Alkali and Alkaline Earth Carbonate Liquids

Katharine Loughney  
Taphonomy and palaeoenvironments of the Middle Miocene Barstow Formation, Mojave Desert, California

Ross Maguire  
An integrated geophysical approach to investigating thermal and chemical heterogeneity in Earth’s mantle

Kyle Meyer  
Novel Paleoclimatic and Palaeoenvironmental Applications of Stable and Radiogenic Isotope and Elemental Geochemistry from the Holocene through the Cretaceous

Yi Niu  
Applications of Noble Gases in Hydrogeology in Fractured, East Infiltration Systems—From the Greenland and Columbia Ice Sheets to Hawaii

Xiaofei Pu  
New Constraints on Temperature, Oxygen Fugacity and H2O content of Subduction Basalts Based on Olivine-Melt Equilibrium

Spencer Washburn  
Mercury Stable Isotopes as Tracers in the Environment: Applications to Aquatic and Natural Gas Systems

**Honors Theses**

William Arnum  
Solar Feasibility of the Ann Arbor Public School

Austin Carter  
The oxygen and hydrogen isotope evolution of snow, firn, and ice throughout a melt season on Wolverine Glacier, AK

Anna Harkness  
Fire Frequency and C4 Vegetation Expansion in the Barstow Formation

Sara Leon  
Mercury Contamination of Channeled Bed Sediment in the South River, VA

Elizabeth Oliphant  
Reconstructing Past Climate and Life Cycles of Extinct Bivalve Species through Stable and Clumped Isotopic Variations

Elizabeth Rogers  
An investigation of volatiles in magmatites and their relation to JOA ore forming fluids

Anne Rosett  
Geochemical fingerprinting and Thermal Heat Treatment of Spinel from Tanzania and Mozambique to Address Supply Chain Challenges in the Colored Gemstone-Market

Cassandra Seltzer  
Tectonic melting in MgO-MgCO₃ binary system with implications for Earth’s deep carbon cycle

Lauren Vanwagener  
¹⁸O values in palms and relation to atmospheric C concentrations, phylogeny, climate, and growth form

**Minors**

Alberto Aguilar Martinez  
Alexander London

Jacob Bailey  
Christopher Lopez

Eric Chapman  
Larissa Lu

Charlotte Connop  
Michael Martinez-Silva

Sarah Gallagher  
Aaron Matheson

Lindsay Hendrickson  
Austin McDowell

Anna Heyblom  
Elizabeth Oliphant

Yi Chieh Huang  
Dylan Picard

Amy Raihanbinti Husain  
Mckenzie Powers

Minors

Alexander London

Christopher Lopez

Larissa Lu

Michael Martinez-Silva

Aaron Matheson

Austin McDowell

Elizabeth Oliphant

Dylan Picard

Mckenzie Powers

Michael Schiafone

Evana Scieszka

Alexandra Shand

Zavonte Stephens

Clara Tilt

Kathryn Tovar

Samuel Whitehead

Alexandra Wisbiski

Darin Wong