Congratulations 2018 Earth and Environmental Sciences Graduates!

**MS**
- **Aislinn Deely**  
  Photon drive affects dissolved organic matter apparent quantum yields in Alaskan Arctic surface waters
- **Joseph El Adli**  
  Season of death of the Bowser Rowd mastodon
- **Gabrielle Farina**  
  1500 years of anchovy and sardine population response to coastal upwelling off Southern California
- **Ryan Gabelman**  
  Olivine-melt thermometry, hygrometry and oxygenometry applied to lavas erupted from the Masaya volcanic field, western Mexico
- **Matthew Medina**  
  Genetic 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+, S6+ 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 Wooly 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 Alkaline 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 Paleoclimate and Paleoenvironmental 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 Arnuk**  
  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 magnetite 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 Vanwagoner**  
  δ13C values in palms and relation to atmospheric C concentrations, phylology, 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 Rainahan Binti Husain**  
  McKenzie Powers
- **Spencer Washburn**  
  Michael Schiavone
- **Brian Nelson**  
  Evan Scieszka
- **Theophilus Offsinger**  
  Alexandra Shand
- **Aidan O’Connor**  
  Zavonte Stephens
- **Elizabeth Oliphant**  
  Clara Tilt
- **Anne Rosett**  
  Kathryn Tovar
- **Brian Nelson**  
  Samuel Whitehead
- **Dylan Picard**  
  Alexandra Wisbiski
- **Hannah Rane**  
  Darin Wong
- **Elizabeth Rogers**  
  So Young Yang
- **Anne Rosett**  
  Drake Yarian
- **Elizabeth Rogers**  
  So Young Yang