

## Ogden College of Science & Engineering FUSE Awards Fall 2016

Students	Faculty Mentor	Department	Title
James Biddle/ Daniel Neukomm	Martin Stone	Agriculture	The effect of gravity level variation on the growth rate, behavior, and nutrient uptake within a crop of sample plants, <i>Arabidopsis thaliana</i>
Trevor Brown	Jeffrey Galloway	SEAS (Computer Science)	Creating a Web-Based Interface for Managing and Utilizing a Virtual Computing Laboratory
Jacob Brumley	Philip Lienesch	Biology	The relationship between the distribution of Madtom catfishes and Mussel Shells within the Green River Watershed in Kentucky.
Brody Bruns	Jeffrey Galloway	SEAS (Computer Science)	Developing an Accessible Smart Home System
Samuel Culton	Michael Stokes	Biology	Analysis of Seed Caching in Balule Nature Reserve, South Africa by Smith's Bush Squirrel ( <i>Paraxerus cepapi</i> ) and Its Effects on the Decline of Large Tree Species
Taylor Doré	Amy Brausch	Psychological Sciences	Emotion Dysregulation and Over Control as Related to Nonsuicidal Self-Injury and the Function of Self-Punishment
Hosannah Evie	Blairanne Williams	Chemistry	Cytotoxicity and uptake of the Derivatives of the Anticancer Drug Oxaliplatin
Mary Anne Fox	Martin Stone	Agriculture	Increasing Urban Food Production with a Tomato-Potato Grafted Vegetable Plant
James Graham	Leslie North	Geography and Geology	Carbon Footprinting: Expanding Applications beyond the American University
Byron Grant	Ali Er	Physics and Astronomy	Using Shape Memory Alloys (SMA) to create smart surfaces
Emily Hamilton	Michael Smith	Biology	Behavioral responses to seismic signals in the veiled chameleon ( <i>Chamaeleo calyptratus</i> )
Konnor Jones	Matthew Nee	Chemistry	Temperature and ionic concentration effects on nitrate solvation.
Andrew Jones	Jason Polk	Geography and Geology	Investigating Water Quality Implications from Recreational Visitor Impacts in the Red River Gorge Area of Kentucky
Rilee Matthews	Matthew Shake	Psychological Sciences	Examining Changes in Cognitive Ability for Older Adults Participating in a Novel Exercise Program

Jacob Menix/ Ayush Prasad/ Carson Price/ Rachel Turner	Richard Schugart	Mathematics	Using Individual-Patient Data to Predict a Wound-Healing Outcome
Matthew Millay/ Blaine Patty	Michael Smith	Biology	Identifying the Synergistic Effects of Two Curcuminoids and Cisplatin on Cancer Cell Migration and Auditory Tissue
Hunter Sims	Hemali Rathnayake	Chemistry	Synthesis and characterization of molecular dyads for organic electronics
Tyler Smith	Sanju Gupta	Physics and Astronomy	Developing Graphene Quantum Dots for Electrochemical Sensing
Zachary Thomas	Ali Er	Physics and Astronomy	Photodeactivation of Bacteria by Graphene Quantum Dots
Will White	Robert Choate	SEAS (Mechanical Engineering)	Airfoil Research