

Last	First	Major	Project Title	Mentor	Faculty Department	Program
Arce	Freddy	EBI	Bio-based thermoplastic polyurethane chitosan composite for wound healing applications	Manas-Zloczower, Ica	EMAC	SURES
Bernardoni	Diane	ANT	Collection and Analysis of Late Australopithecus and Early Homo Fossils near Lake Turkana	Beall, Cynthia	ANTH	SOURCE
Brennan	Stephen	CMP	Using prior biological information to select features for predicting cancer phenotypes	Koyuturk, Mehmet	EECS	SOURCE
Britt	Carson	CHE	Exploring Molecular Structures of Promising Acceptors for Organic Photovoltaics	Sauvé, Geneviève	CHEM	SURES
Brogan	John	COG	Social marketing for recycling and conservation initiatives	Parrill, Fey; Corbett, Stephanie; Kollar, Erin	COGS; Office of Sustainability	SURES
Burton	Spencer	POL	Synthesis, Characterization, and Application of Polymer/Graphene Oxide Composite Particles	Pentzer, Emily	CHEM	P-SURG
Cammarn	Grace	EST	CWRU GHG Inventory, Benchmarking and Best Practices	Corbett, Stephanie	Office of Sustainability	SURES
Cao	Meng	EBI	The Effects of Hydrostatic Pressure on Cartilage Formation and Properties using Human Mesenchymal Stem Cells (hMSCs)	Alsberg, Eben	EBME	SOURCE
Carreno	Brandon	GEO	Determining the Physical Properties of Asteroidal Regolith through Measurements on Crushed Meteorite Samples	Harvey, Ralph	EEPS	SOURCE /ISO
Chang	Gregory	BIOL	Identification of early developmental transcriptional activators in parasitic schistosomes	Jolly, Emmitt	Biology	SOURCE
Chen	Judy	NBM	The mechanism of butyrate's protective function in alcohol-induced gut injury	Cresci, Gail	Pathobiology	SOURCE
Chen	Katherine	BIO	Elevate App: Utilizing Technology for Mental Well-Being	Przeworski, Amy; Buchner, Marc	ECSE	SOURCE
Chen	Sharon	EPH	Analysis of Mechanical Loads from Wind Forces on the NorthWind 100 Wind Turbine Located on the CWRU Campus	Matthiesen, David	EMSE	SURES
Chung	Brittany	CHE	An Investigation of Chinese 'Brotherhoods' in Jamaica	Jia-Chen Fu	HSTY	SOURCE
De Angelis	Justine Anne	COG	Elevate App: Utilizing Technology for Mental Well-Being	Przeworski, Amy; Buchner, Marc	PSSC, EECS	SOURCE
Deshmukh	Aditi	BCH	Calcium Regulation in Mechanosensory Hair Cells	Stepanyan, Ruben	OTOL	SOURCE
Doran	Stephanie	COG	Novel network analysis of brain imaging data to reveal neural basis of analytic thinking, social intelligence and empathetic concern.	Jack, Anthony	PHIL	SOURCE
Draus	Francis					SOURCE /ISO
Duggal	Yashavika	CHE	<i>In vivo</i> NMR investigation of Mitochondrial Function	Burda, Clemens; Mateescu,	CHEM	SOURCE/ISO
Faidiga	Alexandra	BIO	Do invasive earthworms alter the suppression of native plant growth by an invasive plant?	Burns, Jean	BIOL	SOURCE
Ferre	Ian	MAT	An Ultra-Affordable Foot-Pedal Generator For Low Load Applications	Daniel Lacks	ECHE	SURES
Flanagan	Hayley	SPA	Factors Influencing the Strength of Negative Density Dependence in <i>Viola Pubescens</i>	Burns, Jean	BIOL	SOURCE

Gersovitch	Aviva	Cog Sci	Banning Bottled Water: Meaningful Solution to Reducing Waste on Campus or Red Herring?	Kollar, Erin	Office of Sustainability	SURES
Goldberg	Amy	EBI	Developing and Characterizing In Vivo Tumor Models for Pediatric Gliomas	Karathanasis, Efstathios	EBME, M-RADI	SOURCE
Hacker	Kelly	EMC	From Sun to Spark: Harnessing Solar Energy to Reduce the Nonrenewable Energy Consumption of the Case Western Reserve University Rooster House	Bond, Christopher	U-FARM	SURES
Hathcock	David	ECO	The Effects of Legalization of Recreational Marijuana on Crime	Carrera, Mariana	ECON	SOURCE
Helgert	Alexandra	BCH	Treating High Risk Tumors: MYC Overexpression in Medulloblastoma Cell Lines and Increased Sensitivity to Statin Drugs	Stearns, Dr. Duncan	PEDS Hematology/Oncology	SOURCE
Hertz	Laura	BCH	Characterization and Effectiveness of ECO/miRNA-200 Nanoparticles in TGF $\beta$ Induced NMuMG Cells	Lu, Zheng-Rong	EBME	P-SURG
Hodges	Elizabeth	EGR	Data Science and Analysis of NIR Spectra of Marcellus Shales	French, Roger	EMSE	SURES
Hughes	Paige	ANT	Research at the IRTF: Banana Consumption Awareness and Free Trade in the Cleveland Area	Almeida, Katia	ANTH	SOURCE
Jameson	Slater	EBI	Modulating the immunogenicity and macrophage uptake of Tobacco Mosaic Virus through bio-functionalization with human serum albumin in the context of drug delivery.	Steinmetz, Nicole	EBME	SOURCE
Johnson	Kendra	BCH	STAT3 signaling mechanisms underlying viability and proliferation of cells in the immune system	Medof, Edward	PATH	SOURCE
Kemeny	Collin	MUS	Concerto for Alto Saxophone and Wind Ensemble	Ciepluch, Gary	MUSC	SOURCE
Khadilkar	Surya	ANT	A Multiplex Ligase Detection Reaction-Fluorescent Microsphere Assay for Detection of Nucleotide Polymorphisms associated with Plasmodium falciparum Drug Resistance	King, Charles	CGHD	SOURCE
Klco	Alayna	IST	Event Description in Children	Parrill, Fey	COGS	SOURCE
Klemmer	Kristen	BCH	Exercise and Diabetes in Cystic Fibrosis Mice	Perez, Aura	PEDS	SOURCE
Kos	Clarissa	EBI	Clot Lysis Evaluation of a Thrombus-targeted Enzyme-triggered Vascular Nanomedicine System	Sen Gupta, Anirban	EBME	P-SURG
Kugel	Emily	HST	The Invention of the Indian Landscape by the Early British East India Company	Broich, John	HSTY	SOURCE
Kwon	Nicholas	BCH	Direct Tethering of siRNA for its Controlled Release	Eben Alsberg	EBME	SOURCE
Ledger	Joseph	CMP	Detection of Anomalies in Gene Ontologies Based on Genome-Scale Network Analysis	Koyuturk, Mehmet	EECS	SOURCE
Lieberman	Colin	EAP	Modeling of Semiconductor Nanowire Growth based on Phase Field Theory	Zhao, Hongping	EECS	SURES
Liu	Xilai	EBI	High density human HSC constructs for the healing of critical size rat segmental bone defects	Alsberg Eben	EBME	SOURCE /ISO
Luppino	Jennifer	BCH	Delineating the Impact of DNA Variants on Genetic Predisposition to Colon Cancer	Scacheri, Peter	GENE	P-SURG
Makowski	Emily	PSY	Wing Fanning and Odor Detection in the Oriental Fruit Moth, Grapholita molesta	Willis, Mark	BIOL	P-SURG
Mallipeddi	Nikhil	BIO	Determination of the mechanistic role of long non-coding RNAs in the development of $\beta$ -catenin mediated fibrosis	Atit, Radhika	BIOL	SOURCE

Monroe	Maya	EMA	Identification of the biological mechanisms underlying synergistic anticancer drug combinations	Bebek, Gurkan	Center for Proteomics and Bioinformatics	SOURCE
Morrison	Rachel	EMS	Synthesizing nanoparticles on the surface of a nickel material	Carter, Jennifer	EMSE	SOURCE
Nazarenko	Olga	PSY	Attention bias and electrocortical activity in response to emotion regulation tasks in youth: associations between youth and mother's depressive symptoms	Connell, Arin	PSSC	P-SURG
Nigam	Anmol	BCH	Structure-function studies of a mutation at a transcription factor-DNA binding interface with application to human sex reversal	Weiss, Michael	BIOC	SOURCE /ISO
Odhner	Bradley	PHY	Gain-Plasmon Coupling in Systems Made of Metal-Dielectric Nano- and Meso-structures	Strangi, Giuseppe	PHYS	SOURCE
Osborne	Joshua					SOURCE /ISO
Oyster	Tricia	EBI	Aluminum Doped Zinc Oxide Modification To Optimize Longevity in Photovoltaic Applications	Ina Martin	EMSE, PHYS	SURES
Palmeri	Joseph	ECE	Large-scale Synthesis of Well-Defined Nanodiamonds	Sankaran, Mohan	ECHE	P-SURG
Pannone	Rebecca	COS	Kinematic Differentiation of Lexical Stress between Children and Adults	Vick, Jennell	PSSC	SOURCE
Patel	Roshan	EBI	Development of Microfluidic Device for Controlled Capture and Characterization of Artificially Induced Blood Clots	Wnek, Gary	EMAC	P-SURG
Patten	Matthew	EMC	Renewable Energy through Completion of a Wind Turbine	Bond, Christopher	BIOL	SURES
Pickering	Ethan	EMC	Building Energy Efficiency Data Analytics	Abramson, Alexis	EMAE	SOURCE
Pontius	William (Dean)	ECE	High-throughput real-time quantitative study of Sox9 dynamics during chondrogenesis of human mesenchymal stem cells	Baskaran, Harihara	ECHE, EBME	P-SURG
Quinn	Erina	BCH	Genetic causes underlying aberrant glycosylation and colon tumor development	Guda, Kishore	Oncology	P-SURG
Radke	Michael	GEO	The role of volcanic glass in crust-atmosphere interactions on Venus	Harvey, Ralph	EEPS	SOURCE/ISO
Schaffer	Michael	CMP	Automatic synthesis of 3-dimensional information from real-world video input using artificial intelligence and machine learning techniques.	Lewicki, Michael	EECS	SOURCE
Schmidt	Heidi	EBI	The Link Between Estrogen Production, Obesity, and Liver Cancer in Female Mice	Berger, Nathan	Center for Science, Health and Society	SOURCE
Senderak	Sophia	COG	Radular Stalk Movement of the Aplysia Californica buccal mass	Chiel, Hillel	BIOL	P-SURG
Shah	Hirsh	BCH	BET Bromodomains in Transcriptional Control of Physiological Cardiac Plasticity	Haldar, Saptarsi	CARD	SOURCE
Shelton	Emily	DNC	Dance Technique Immersion through a Paul Taylor Intensive (Baltimore, MD)	Potter, Karen	DANC	SOURCE
Shober	Patrick	EPH	Behavior of planetary cores during cooling: Melting experiments in the Fe-Si-S system	Van Orman, James	EEPS	SOURCE /ISO
Sisk	Victoria	PSY	A meta-analytic review of the stress-is-beneficial mindset	Butler, Jennifer	PSSC	SOURCE
Smith	Mikayla	EBI	Preventing Dialysis Graft Failure with Drug Delivery Microparticles	von Recum, Horst	EBME	SOURCE
Solomon	Calin	EMC	Manufacturing of 3-D printed carbon fiber parts for micro-robotics applications	Quinn, Roger	EMAE	SOURCE

Sosnowchik	Rachel	HST	Contraception in Context: Understanding Birth Control Access and Use between Ireland and the United States in the 20th Century	Sentilles, Renee	HSTY	SOURCE
Souza Cardoso	Gabriel					SOURCE /ISO
Srivastava	Vishnupriya	CHE	Building an in vitro model of platinum cytotoxicity for stimulating neural electrodes.	Capadona,Jeff	EBME	P-SURG
Taylor	Elizabeth	POS	Educational Summer Internship with Kentucky Department of Public Advocacy	Posner, Elliot	POSC	SOURCE
Thanigaivelan	Ilakkiya	BIO	The Effect of Haltere Ablation on Head Movements in Drosophila melanogaster in Response to Visual Stimuli	Fox, Jessica	BIOL	SOURCE
Tran	Brandon	BCH	Characterizing Ribonuclease P Binding to RNA through Comprehensive Computational Analysis of High-Throughput Sequencing Kinetics and Equilibrium Data	Harris, Michael	BIOC	P-SURG
Tsai	Iris	NBM	Investigation of the mechanism of hyperammonemia in 3-hydroxypropionic acidemia, using a chronic rodent model	Brunengraber, Henri	NUTR	P-SURG
Uppal	Nishant	EBI	Analyzing the Effects of PEGylation on Hemostatic Nanoparticles to Mitigate Adverse Immune Reactions in Porcine Models in Vitro	Lavik, Erin	EBME	SOURCE
Ward	Brian	EGL	Microcephaly in DNA-Repair Protein Disorders	Wynshaw-Boris, Anthony	GENE	P-SURG
Watkins	Timothy	BCH	Probing the Length of the Coiled-Coil Region for the Stability/Activity of the Catalytic Domain of Soluble Guanylyl Cyclase	van den Akker, Focco	BIOC	SOURCE /ISO
White	Brandon	EBI	Novel Rabbit Model to Study Bone Biomechanics	Eppell, Steven	EBME	P-SURG
Wichman	Lauren	CHE	Analysis of Long Non-Coding RNAs in Cancer Biology	Khalil, Ahmad	GENE	P-SURG
Wilkosz	Catherine	NUR	Ventilator and EEG Results in Kangaroo Care (Project changed 5/18/15)	Ludington	NURS	SOURCE
Worden	Natalie	BIO	Testing the requirement of Gene CG32647 in the evolution of locomotion patterns in Drosophila species	Mizutani, Claudia	BIOL	P-SURG
Yocum	Hayley	CHE	Thermal and Mechanical Properties of Clay, Polyvinyl alcohol, and keratin aerogel	Schiraldi, David	EMAC	SOURCE
Zabiyaka	Davis	EGR	Lifetime and Degradation Science of Photovoltaic Minimodules	French, Roger H.	EMSE	SURES
Zaza	Norah	CHE	Possible Link of Lactone of 4-hydroxy-7-oxohept-5-enoic acid, a Degradation Product of Docosahexaenoic Acid, to neuronal death in Alzheimer's and/or Parkinson's Disease	Salomon, Robert	CHEM	P-SURG
Zheng	Yuxi	BCH	The function of Secreted Protein, Acidic and Rich in Cysteine (SPARC) in the nucleus: SPARC as a potential transcription factor or nuclear shuttle protein in the trabecular meshwork (TM) cells	Rhee, Douglas	OPHTH	P-SURG
Zienert	Ryan	EGR	Accelerated Testing of Solid Oxide Fuel Cells	De Guire, Mark	EMSE	SURES

ISO = Institute for the Science of Origins (in partnership with SOURCE)