

Award type	Title of Presentation	First Name	Last Name	Major	Mentor First Name	Mentor Last Name	Mentor College	Mentor Department/School
Student Salary	Demonstration of Enabling Communications Technologies for Future Low-Cost Small Earth Return Vehicles	Marie Lei Ysabel	Acuna	Aerospace Engineering (AE)	Robert	Braun	Engineering	Aerospace Engineering
Student Salary	Bimetallic Ag@Au nanoplates for use in printable electronics	Jae Wan	Ahn	Materials Science and Engineering (MSE)	Dong	Qin	Engineering	Materials Science and Engineering
Student Salary	Cycle Atlanta	Rohit	Ammanamanchi	Civil Engineering (CE)	Kari	Watkins	Engineering	Civil and Environmental Engineering
Student Salary	RED-Data2 and RED-4U Reentry Vehicle Development	Matthew	Arceri	Computer Engineering (CMPE)	Robert	Braun	Engineering	Aerospace Engineering
Student Salary	Magnetic Tongue Tracking for Speech Therapy	Shurjo	Banerjee	Electrical and Computer Engineering (ECE)	Maysam	Ghovanloo	Engineering	Electrical and Computer Engineering
Student Salary	Metacognition of Spatial Ability	Jessica	Bishop	Biology (BIO)	Scott	Moffat	Sciences	Psychology
Student Salary	Using Magnetometers for Space Object Characterization in Space Situational Awareness Applications	Julian	Brew	Aerospace Engineering (AE)	Marcus	Holzinger	Engineering	Aerospace Engineering
Student Salary	The Effects of Strong $\sigma$ Donation on the Reactivity of a Cobalt Metal Center Supported by a Redox Active N-Heterocyclic Carbene	Quinton	Bruch	Biochemistry (BCHM)	Jake	Soper	Sciences	Chemistry and Biochemistry
Student Salary	Surgical Planning for the Fontan Procedure Utilizing Pulsatile Flow Hydrothermal growth and characterization of ZnO nanorods for neutron detection via scintillation	Jaci	Carithers	Biomedical Engineering (BMED)	Ajit	Yoganathan	Engineering	Biomedical Engineering
Student Salary	Healing Properties of Fire Ant Assemblages	Kevin	Cook	Electrical Engineering (EE)	Benjamin	Klein	Engineering	Electrical and Computer Engineering
Student Salary	Characterization and Reduction of Impedance and Methanol Crossover in Hybrid PEM-AEM Fuel Cells to Improve Efficiency of Clean Energy Conversion Devices	Tanvi	Dave	Biomedical Engineering (BMED)	David	Hu	Engineering	Mechanical Engineering
Student Salary	Pseudomonas Aeruginosa Quorum Sensing Inhibition with Microwave Radiation	Nikhil	Deshpande	Chemical and Biomolecular Engineering (CHBE)	Paul	Kohl	Engineering	Chemical and Biomolecular Engineering
Student Salary	Heat Release Distribution for Swirl Stabilized Flames	Aidan	Dowdle	Electrical and Computer Engineering (ECE)	William	Hunt	Engineering	Electrical and Computer Engineering
Student Salary	Tongue Tracking System	Katherine	Durden	Aerospace Engineering (AE)	Tim	Lieuwen	Engineering	Aerospace Engineering
Student Salary	Antihandrogen Genistein Conjugates as Targeted Anti-Prostate Cancer Agents	Justin	Eng	Computer Engineering (CMPE)	Maysam	Ghovanloo	Engineering	Electrical and Computer Engineering
Student Salary	Rigorous calculations of permeation in mixed-matrix membranes	Alex	George	Biochemistry (BCHM)	Adebeyega	Oyelere	Sciences	Chemistry and Biochemistry
Student Salary	Visualizing Solar Incentives in the United States	Tom	Giordano	Chemical and Biomolecular Engineering (CHBE)	Sankar	Nair	Engineering	Chemical and Biomolecular Engineering
Student Salary	Nacogdoches Census Report Project	Brad	Greeson	Mechanical Engineering (ME)	Daniel	Matisoff	Ivan Allen Liberal Arts	Public Policy
Student Salary	RELATIONSHIP BETWEEN DRFORMABILITY AND AGE OF RED BLOOD CELLS	Hayden	Gregg	History, Technology, and Society (HTS)	Carla	Gerona	Ivan Allen Liberal Arts	History, Technology and Society
Student Salary	Augmenting post-operative neonatal blood clotting via synthetic platelet-like particles	Lindsay	Hall	Mechanical Engineering (ME)	Todd	Sulchek	Engineering	Mechanical Engineering
Student Salary	Strain to Failure of Conjugated Polymers and Ag Nanowire Electrodes For Flexible and Stretchable Electronic Devices	Riley	Hannan	Biology (BIO)	Thomas	Barker	Engineering	Biomedical Engineering
Student Salary	The Emergence of the Modern World Trade System	Nicholas	Hines	Mechanical Engineering (ME)	Samuel	Graham	Engineering	Mechanical Engineering
Student Salary	Small Angle Light Scattering Device for Fiber Orientation Analysis of Intact Human Sclera	Lisa	Hwang	International Affairs (INTA)	Peter	Brecke	Ivan Allen Liberal Arts	International Affairs
Student Salary	Regaining Taxol Sensitivity in Chemoresistant Ovarian Cancer Cells	Anirudh	Joshi	Biomedical Engineering (BMED)	Ross	Ethier	Engineering	Biomedical Engineering
Student Salary	Star-Disk Collisions	Niti	Khambhati	Biochemistry (BCHM)	Michelle	Dawson	Engineering	Chemical and Biomolecular Engineering
Student Salary	Development of Circuit Integrated Carbon Nanotube Supercapacitors within Doped Silicon Wafers	Thomas	Kieffer	Physics (PHYS)	Tamara	Bogdanovic	Sciences	Physics
Student Salary	Design of a Pneumatically Actuated Device for Hemiparesis Rehabilitation	Ravi	Konjeti	Mechanical Engineering (ME)	Jud	Ready	Research Institute (GTRI)	Research Institute (GTRI)
Student Salary	New Measures of Abductive Reasoning	Ilya	Kovalenko	Mechanical Engineering (ME)	Jun	Ueda	Engineering	Mechanical Engineering
Student Salary	Hybrid Binary Translation of MIPS to ARM Instruction Set Architectures to Modernize Legacy Embedded Software	Ryan	Krepps	Psychology (PSY)	Christopher	Hertzog	Sciences	Psychology
Student Salary	Enhancing Robot Intelligence With Online Connectivity	Michael	Kuchnik	Computer Engineering (CMPE)	Linda	Wills	Engineering	Electrical and Computer Engineering
Student Salary	Fabrication of Superamphiphobic (SA) Paper with Improved Mechanical Strength	Andrey	Kurenkov	Computer Science (CS)	Andrea	Thomaz	Computing	Interactive Computing
Student Salary	Microneedle Patches for Point-Of-Care Diagnostics	Hanyang	Li	Chemical and Biomolecular Engineering (CHBE)	Dennis	Hess	Engineering	Chemical and Biomolecular Engineering
Student Salary	Characterization of Positive Electrode Materials for use in Lithium Ion Batteries for Hybrid Electric Vehicle Applications	Caroline	Massaro	Biomedical Engineering (BMED)	Mark	Prausnitz	Engineering	Chemical and Biomolecular Engineering
Student Salary	Imaging Lysosome Secretion and Enzymatic activity	Eric	McCaslin	Chemical and Biomolecular Engineering (CHBE)	Thomas	Fuller	Engineering	Chemical and Biomolecular Engineering
Student Salary	Visualization of Flow in Wavy Wall Heat Exchanger	Nina	Mohebbi	Biomedical Engineering (BMED)	Christine	Payne	Sciences	Chemistry and Biochemistry
Student Salary	Image Reconstruction for Applications in Proton Tomography Using MCNP6	Vontravis	Monts	Mechanical Engineering (ME)	Alexander	Alexeev	Engineering	Mechanical Engineering
Student Salary	Near-real-time interactive simulations of complex cardiac cell models in tissue.	Benjamin	Musall	Nuclear and Radiological Engineering (NRE)	Anna	Erickson	Engineering	Mechanical Engineering
Student Salary	Development of Three-Dimensional Mesoscale Models for Heterogeneous Ceramic Compounds under Extreme Environments	Amier	Naji	Computer Science (CS)	Flavio	Fenton	Sciences	Physics
Student Salary	Impact of Sensor Measurement Errors in Sensor Positioning in Water Quality Monitoring Networks	Kevin	Okseniuk	Aerospace Engineering (AE)	Julian	Rimoli	Engineering	Aerospace Engineering
Student Salary	Investigation of the Role of Monocyte Subsets in Inflammatory Vascular Network Regeneration	Jisu	Park	Industrial Engineering (IE)	Seong-Hee	Kim	Engineering	Industrial and Systems Engineering
Student Salary		David	Pfau	Mechanical Engineering (ME)	Edward	Botchwey	Engineering	Biomedical Engineering

Student Salary	A Meta-Analysis of the Rotarod as a Predictor of Disease Progression in the SOD1 G93A Mouse Model of ALS	Stephen	Pfohl	Biomedical Engineering (BMED)	Cassie	Mitchell	Engineering	Biomedical Engineering
Student Salary	Optimizing Hardware for Efficient Collaborative Undersea Exploration	Alex	Popescu	Computer Engineering (CMPE)	Michael	West	Research Institute (GTRI)	Research Institute (GTRI)
Student Salary	Characterizing synaptic domains in <i>C. elegans</i> with neuronal imaging augmented by automated image processing	Daniel	Puleri	Chemical and Biomolecular Engineering (CHBE)	Hang	Lu	Engineering	Chemical and Biomolecular Engineering
Student Salary	Accessible Astronomy: Auditory Displays for Supporting Informal Education for Visually Impaired Students	Heather	Roberts	Psychology (PSY)	Bruce	Walker	Sciences	Psychology
Student Salary	Ubiquitous Health Tracking in the Home - "Smart Mirror"	Sam	Skinner	Computer Science (CS)	Irfan	Essa	Computing	Interactive Computing
Student Salary	Toponymy Resolution of Informal Place Names in Social Media	Ana	Smith	Computer Science (CS)	Jacob	Eisenstein	Computing	Interactive Computing
Student Salary	Filariasis Millifluidic Platform for Minimizing Blood Volume During Mosquito Feeding	Thomas	Spencer	Mechanical Engineering (ME)	Brandon	Dixon	Engineering	Mechanical Engineering
Student Salary	Quantitative Evaluation of Articular Cartilage Changes in an in vitro Model of Osteoarthritis in Response to a Novel Therapeutic Approach	Sanjay	Sridaran	Biomedical Engineering (BMED)	Robert	Guldberg	Engineering	Mechanical Engineering
Student Salary	Underwater Acoustic Tags for High Frequency Side-Scan Sonar	Prakhar	Srivastava	Mechanical Engineering (ME)	Karim	Sabra	Engineering	Mechanical Engineering
Student Salary	Three-Dimensional Parametric Study of Bio-Inspired Passive Separation Control Mechanisms	Michael	Stearns	Aerospace Engineering (AE)	Marilyn	Smith	Engineering	Aerospace Engineering
Student Salary	Intraocular pressure control for noninvasive intracranial pressure measurement	Max	Stockslager	Mechanical Engineering (ME)	Craig	Forest	Engineering	Mechanical Engineering
Student Salary	Using MEANS to Develop Simulation Projects for Undergraduate Airline Planning Course	Hunter	Stroud	Industrial Engineering (IE)	Laurie	Garrow	Engineering	Civil and Environmental Engineering
Student Salary	Investigating Viscoelasticity and Stiffness of Acute Myeloid Leukemia Cells in Comparison to White Blood Cells	Cory	Turbyfield	Biomedical Engineering (BMED)	Todd	Sulchek	Engineering	Mechanical Engineering
Student Salary	Crawler Indexer for a Cryptographically-Curated File System (CCFS)	Ikenna	Uzoije	Computer Engineering (CMPE)	John	Copeland	Engineering	Electrical and Computer Engineering
Student Salary	Automatic Annotation of Video Segmentation based on Ground Truth User Annotations	Patrick	Violette	Computer Science (CS)	Irfan	Essa	Computing	Interactive Computing
Student Salary	Engineering Three Dimensional Cardiospheres From Pluripotent Stem Cells	Nicole	Votaw	Biomedical Engineering (BMED)	Todd	McDevitt	Engineering	Biomedical Engineering
Student Salary	Perishable Cold Items Inventory Model Considering Cost and Carbon Emissions	Huong	Vu	Industrial Engineering (IE)	Dima	Nazzal	Engineering	Industrial and Systems Engineering
Student Salary	Auxetic Behavior in Needle-punched Nonwovens	Karla	Wagner	Materials Science and Engineering (MSE)	Meisha	Shofner	Engineering	Materials Science and Engineering
Student Salary	Insect-Inspired Bristle Arrays for Cleaning of Sensitive Surfaces	D' Andre	Waller	Mechanical Engineering (ME)	David	Hu	Engineering	Mechanical Engineering
Student Salary	Uncovering the Mysterious Origin of Hyaluronic acid and its Role in Tumor Progression	Alexander	Warner	Biomedical Engineering (BMED)	Susan	Thomas	Engineering	Mechanical Engineering
Student Salary	Servant Leadership	Daniel	Watts	Management (MGT)	Terry	Blum	Business	Business, Scheller College of
Student Salary	Mobile Medical App for Remote Screening of Appendicitis	Alexander	Weiss	Biomedical Engineering (BMED)	Wilbur	Lam	Engineering	Biomedical Engineering
Student Salary	Directed Evolution of Inteins to Accommodate Unnatural Amino Acid, Formylglycine	Justin	Williams	Biochemistry (BCHM)	M.G.	Finn	Sciences	Chemistry and Biochemistry
Student Salary	Use of RNAi to Inhibit Aging-Related Genes in <i>Brachionus manjavacas</i>	Julie	Wilson	Biology (BIO)	Terry	Snell	Sciences	Biology
Student Salary	Factors Influencing Visual Search in a Complex Driving Environment	William	Woolery	Civil Engineering (CE)	Michael	Hunter	Engineering	Civil and Environmental Engineering
Student Salary	Study of Soot and NOx Reduction in Premixed Combustion Systems Using Non-equilibrium Plasma	Yao	Zhang	Aerospace Engineering (AE)	Wenting	Sun	Engineering	Aerospace Engineering
Travel	Influence of Ionic Strength and pH on Neonatal Clot Structure	Kaitlin	Ahlstedt	Biochemistry (BCHM)	Thomas	Barker	Engineering	Biomedical Engineering
Travel	TNF $\alpha$ and Shear Stress Regulation of Cathepsin K activity in the context of Sickle Cell Disease	Suhaas	Anbazhakan	Biomedical Engineering (BMED)	Manu	Platt	Engineering	Biomedical Engineering
Travel	Analysis of colon cancer metastasis using a microfluidic-based cell adhesion chromatography system	Ananyavenna	Anilkumar	Biomedical Engineering (BMED)	Susan	Thomas	Engineering	Mechanical Engineering
Travel	<i>G. menardii</i> Abundance and Thermocline Ventilation in the Florida Straits over the Deglaciation	Eric	Blackmon	Computer Science (CS)	Jean	Lynch-Stieglitz	Sciences	Earth and Atmospheric Sciences
Travel	Redox-Active Ligand-Mediated Cobalt Cross Coupling via C-O Activation of Nitrile-Functionalized Dialkyl Ethers	Quinton	Bruch	Biochemistry (BCHM)	Jake	Soper	Sciences	Chemistry and Biochemistry
Travel	Combining User-Centric Approach with Novel Sit-Squat and Filtration Technologies for Improved Sanitation	Jasmine	Burton	Industrial Design (ID)	Wayne	Li	Architecture	Industrial Design
Travel	Issues of Xenogenicity in Evaluating Human Platelet Lysate within a Rat Model	Emily	Butts	Biomedical Engineering (BMED)	Robert	Guldberg	Engineering	Mechanical Engineering
Travel	Modulation of Cardiac Macrophages via Hydrogel-mediated IL-4 Delivery as a Strategy for Infarct Healing	Sheridan	Carroll	Biomedical Engineering (BMED)	Michael	Davis	Engineering	Biomedical Engineering
Travel	Overview of Work: Small Animal Model of Juvenile Osteochondritis Dissecans	Destiny	Cobb	Biomedical Engineering (BMED)	Robert	Guldberg	Engineering	Mechanical Engineering
Travel	Complement-mediated Cell Death of Leukemia and <i>E. coli</i> Cells with Fc Functionalized Beads	Matthew	Delvin	Biomedical Engineering (BMED)	Todd	Sulchek	Engineering	Mechanical Engineering
Travel	SPOT FIRE IGNITION OF NATURAL FUEL BEDS BY HOT ALUMINUM PARTICLES	Joshua	Ebin	Mechanical Engineering (ME)	Tequila	Harris	Engineering	Mechanical Engineering
Travel	Kairos Global Summit - Suceite Smart Pacifier	Rachel	Ford	Biomedical Engineering (BMED)	Raja	Schaar	Engineering	Biomedical Engineering

Travel	Identification of therapeutic co-Variant microRNA clusters in Hypoxia treated cardiac progenitor cell exosomes using systems biology	Shohini	Ghosh-Choudhary	Biomedical Engineering (BMED)	Michael	Davis	Engineering	Biomedical Engineering
Travel	Structural and Functional Analysis of Neonatal Fibrin Clots	Riley	Hannan	Biology (BIO)	Thomas	Barker	Engineering	Biomedical Engineering
Travel	Star-Disk Collisions in the Galactic Center	Thomas	Kieffer	Physics (PHYS)	Tamara	Bogdanovic	Sciences	Physics
Travel	Sphingolipid Dysregulation Initiates Myeloid Cell Activation in Sickle Cell Disease	Alicia	Lane	Biology (BIO)	Edward	Botchwey	Engineering	Biomedical Engineering
Travel	The effect of Halogenation Group on Amyloid-Beta 40 Oligomer Aggregation and Neurotoxicity in Alzheimer's Disease	Woo Yaa	Lee	Biomedical Engineering (BMED)	Seung Soon	Jang	Engineering	Materials Science and Engineering
Travel	Beam Shaping for an ISS-Based Long-Duration PV Power Transfer Experiment	Benjamin	Leon	Aerospace Engineering (AE)	Narayanan	Komerath	Engineering	Aerospace Engineering
Travel	Determination of Slung Load Divergence Speed Using Airload Measurement and Simulation	Brandon	Liberi	Aerospace Engineering (AE)	Narayanan	Komerath	Engineering	Aerospace Engineering
Travel	o MMap: Fast Billion-Scale Graph Computation on a PC via Memory Mapping	Zhiyuan	Lin	Computer Science (CS)	Polo	Chau	Computing	Computational Science & Engineering
Travel	La vision intérieure de la femme créole dans Pluie et vent sur Têlumeé Miracle de Simone Schwarz-Bart	Michelle	Melear	International Affairs and Modern Language (IAML)	Nora	Cottille-Foley	Ivan Allen Liberal Arts	Modern Languages
Travel	Pan-Cancer Analysis for Identifying Proteins Related to Cancer Stage	Sameer	Mishra	Biomedical Engineering (BMED)	May	Wang	Engineering	Biomedical Engineering
Travel	Visualization of Flow in Wavy Wall Heat Exchanger	Vontravis	Monts	Mechanical Engineering (ME)	Alexander	Alexeev	Engineering	Mechanical Engineering
Travel	Vesicular Localization Induced by Dextran Uptake	Tatiana	Netterfield	Biomedical Engineering (BMED)	Melissa	Kemp	Engineering	Biomedical Engineering
Travel	High Thermal Conductivity Diamond Composites	Marissa	Pittard	Chemical and Biomolecular Engineering (CHBE)	Jason	Nadler	GTRI	Materials Science and Engineering
Travel	Role of MiR-200 MicroRNA Family in the Induction of Mesenchymal-Epithelial Transition in Ovarian Cancer Cells	Ashley	Reavis	Biomedical Engineering (BMED)	John	McDonald	Sciences	Biology
Travel	Comparison of Clustering Pipelines for the Analysis of Mass Spectrometry Imaging Data	Sanaiya	Sarkari	Biomedical Engineering (BMED)	May	Wang	Engineering	Biomedical Engineering
Travel	Filariasis Millifluidic Platform for Minimizing Blood Volume During Mosquito Feeding	Thomas	Spencer	Mechanical Engineering (ME)	Brandon	Dixon	Engineering	Mechanical Engineering
Travel	Linear micro-actuation system for patch-clamp recording	Max	Stockslager	Mechanical Engineering (ME)	Craig	Forest	Engineering	Mechanical Engineering
Travel	High-affinity divalent cation binding sites in RNA	Drew	Vander Wood	Biochemistry (BCHM)	Loren	Williams	Sciences	Chemistry and Biochemistry
Travel	Real-time Tonal Self-adaptive Tuning for Electronic Instruments	Yijie	Wang	Computer Science (CS)	Timothy	Hsu	Architecture	Music
Travel	Increased Sphingomyelinase Activity in Sickled Red Blood Cells during Sickle Cell Disease	Yuying	Zhang	Biomedical Engineering (BMED)	Edward	Botchwey	Engineering	Biomedical Engineering