Year	Investigator(s) Last name	Investigator(s) First name	Department	Project Title
2020	Layden	Michael	Biological Sciences	Investigating Chemical Communication in the Cnidarian Sea Anemone Nematostella Vectensis
2020	Strandwitz Young	Nick Liz	MSE Chemistry	Atomic-scale control of interfacial electron movement: Quantifying charge transfer dynamics through well-defined tunneling layers
2020	Ramage	Joan	EES	For Peat's Sake: What's going on down there? Novel Remote Sensing Approaches to Measuring Below-Ground Processes in Boreal Peatlands
2020	Quiel	Spencer	CEE	Unlocking Performance-Based Structural-Fire Engineering for Steel Floor Systems by Characterizing Fire Protection Materials
2020	Duenas Kern	Ana Lee	Special Education	Latino Caregivers of Children with Autism as Partners in Early Intensive Behavioral Intervention Services: PACTO (Padres de niños con Autismo Como Técnicos del Análisis Conductual)
2020	De Maio	Mariana	Journalism and Communications	Journalism, Risk, and Uncertainty in the Southern Cone
2020	Banerjee Takac Snyder	Arindam Martin Larry	MEM ISE ISE	Developing a Machine Learning approach to optimize power take-off from a Wave Energy Converter
2020	Xu	Xiaoji	Chemistry	Development of a Novel Kelvin Probe Force Microscopy with < 10 nm Spatial Resolution
2020	Landskron	Kai	Chemistry	Development and testing of a continuous flow electrochemical proton exchange membrane reactor for the testing of electrocatalysts for the reversible dehydrogenation of liquid organic hydrogen carriers as regenerable fuels
2019	Dierolf	Volkmar	Physics	Single Photon Emitters for Quantum Information from Rare Earth Ions in Semiconductors
2019	Buceta	Javier	Bioengineering	Scutoids as a New Paradigm of Cellular Organization in Tissues: Biomechanics and Topology
2019	Wierer	Jonathan	ECE	AlInN power electronic devices
2019	Taylor	Valerie	Psychology	Virtual contact across lines of difference: Examining the effects of repeated exposure to interracial interactions in virtual reality
2019	Suleiman Krick Vermaak	Muhannad Brandon Natasha	CEE MEM MEM	Optimizing Innovative Bio-inspired Surfaces to Improve the Resilience of Foundations Supporting Offshore Wind Energy Infrastructure
2019	Flowers	Robert	Chemistry	Development of Novel Reactions of Unreactive Substrates Through Proton-Coupled Electron-Transfer
2019	Jones	Marilyn	Art, Architecture, and Design	The Play of Light: Edges, impressions and time
2019	Vicic	David	Chemistry	New Strategies for Metal-Mediated Trifluoromethylation Reactions
2019	Felzer	Benjamin	EES	Effect of Insects on the Terrestrial Carbon Sink under 21st Century Warming

2018	Troy Peters	Tara Steve	CEE EES	Impacts of Development on Streamflow and it's Geochemistry in Eastern US Rivers
2018	Anastasio Wesson Berti	David Cameron Claudio	EES Sociology & Anthropology	In Search of the First Europeans: Timing and Causes of Biped Migrations Out of Africa through Morocco and Spain
2018	Gans	Lucy	Art, Architecture and Design	Sustainable Printmaking
2018	Salerni	Paul	Music	Haunted, one-act dance opera on a libretto by Dana Gioia for baritone, three dancers, slides, string quartet, and percussion
2018	Chupa	Anna	Art, Architecture and Design	Embroidering Modernisme: Thread Painting and Organic Line
2018	Thevenin Im	Damien Wonpil	Chemistry Biological Sciences	Identifying allosteric inhibitors of “undruggable” phosphatases
2018	Falk Iovine	Matthias Kathy	Biological Sciences	Molecular mechanisms regulating gap junction turnover and relevance for human disease
2018	Stavola	Michael	Physics	Hydrogen in the ultra-wide-bandgap semiconductor Ga2O3
2018	Babcock Cassimeris	Daniel Lynne	Biological Sciences	Investigating the Aggregate Formation and Exaggerated Immune Response in Spinocerebellar Ataxia
2018	Alang	Sirry	Sociology & Anthropology	Mistrust, Perceived Respect, and Health Care Needs among Users of Safety-Net Clinics
2018	Meltzer Pazzaglia Zeitler	Anne Frank Peter	EES	Evolution and Deformation of Continents: Insights from the Mongolian Altai
2018	Dever Chuah	Bridget Mooi Choo	School Psychology CSE	Project AIM: Assessing Intrinsic Motivation Using a Mobile Application
2017	DuPaul Kern	George Lee	School Psychology	Young Children with Attention-Deficit/Hyperactivity Disorder: Development of Location-Based Technology to Support Parent Use of Effective Intervention Strategies
2017	Lang	Greg	Biological Sciences	Host-virus coevolution and the resolution of intragenomic conflict
2017	Xu	Xiaoji	Chemistry	Three-dimensional Near-field Mapping of Electric Fields of Metallic and Graphene Plasmonic Nanostructures
2017	Glover Wittenberg	Jebrell Nathan	Chemistry	Creating Artificial Caveolae: A Robust Platform to Decipher the Membrane Curvature Preferences of the Caveolin-1 Protein
2017	Layden Herrera	Michael Santiago	Biological Sciences	Investigating role of epigenetic changes and differential gene regulation in animal regeneration
2017	Bulman	William	History	The Rise of the Majority in Colonial America
2017	Pepper	Josh	Physics	Discovering Exoplanets Through Microlensing
2016	Burger	Michael	Biological Sciences	Developmental Determination of Central Auditory Physiology by the Inner Ear
2016	Cassimeris Huang	Lynne Xiaolei	Biological Sciences CSE	Endoplastic Reticulum Stress and Hyperinsulinemia in Human Type 2 Diabetes and Equine Laminitis

2016	Dolan	Beth	English	Charlotte Smith's Family Diaspora and the Building of the British Empire
2016	Flowers	Bob	Chemistry	Applications of Proton Coupled Electron Transfer in Organic Synthesis Using Titanocene(III) Reagents
2016	Jagota Zhang	Anand Frank	ChemE MEM	Experimental and Computational Study of Ebola Virus-Host Cell Interaction
2016	Jedlicka	Sabrina	MSE	Surgical stem cell intervention: Cellular analysis and methodological improvements
2016	Kern	Lee	School Psychology	Pathway 360°: Improving Secondary Students' College and Career Readiness
2016	Kodama	Ken	EES	Paleointensity of the 1.3 billion year old Gardar Lava flows, Greenland: Did the inner core of the Earth nucleate 1.3 billion years ago?
2016	Kumar	Sushil	ECE	Development of sensitive THz radiation detectors operating above 77 K
2016	Laible	Debbie	Psychology	Children's attitudes and prosocial tendencies towards out-group members
2016	McIntosh Snyder	Steve Mark	ChemE	A high energy and power density all solid-state hybrid battery/supercapacitor for mobile applications
2016	Rice	Amber	Biological Sciences	Learning and memory abilities as sources of selection against hybrid chickadees
2016	Suleiman Berger Brown	Muhannad Bryan Derick	CEE ChemE CEE	Innovative Bio-inspired Materials for Soil Treatment to Improve the Sustainability and Resilience of Civil Infrastructures
2016	Vicic	David	Chemistry	Metal-Catalyzed Methods for the Incorporation of the SF5 and N(CF3)2 Groups Into Organic Substrates
2015	Yu	Zicheng	EES	Climate Change and Tepui Peatlands in Tropical South America: Toward an Integrated Understanding of Controls over Peat Accumulation
2015	Liu	Yaling	MEM	Molecular Strain Sensor: Quantification of Microscale Deformation by Nanoengineered Coating
2015	Iovine Skibbens	Kathy Bob	Biological Sciences	Developing a vertebrate model system for Roberts Syndrome
2015	SenGupta Peters	Arup Stephen	CEE EES	Ion Exchange Mediated Novel Treatment of Marcellus Shale Flow-Back Waste Water Using Impaired Acid Mine Drainage (AMD)
2015	Spletzer	John	CSE	Acquisition and Software Development for a Velodyne VLP-16 3D Light Detection and Ranging (LIDAR) System
2015	Ambar	Saladin	Political Science	William James and W.E.B. Du Bois at Harvard: Reason, Race, and the Making of Double Consciousness
2014	Austin	Kelly	Sociology & Anthropology	The Effectiveness of "NGO-ization": NGOs and Health in Uganda
2014	Biaggio	Ivan	Physics	Poled non-centrosymmetric self-assembly of organic molecules for ultra-high-speed electro-optics

2014	Brown Mittal	Angela Jeetain	ChemE	Synergistic experimental and computational characterization and design of cholesterol recognition/amino acid consensus (CRAC) motifs
2014	Chuah Spletzer	Mooi Choo John	CSE	Towards Improving Human Robot Interaction (HRI) Models for Service Robots Working with Vulnerable Populations
2014	Chupa	Anna	Art, Architecture & Design	In the Ditch: The Art Quilt and Longarm Machine Quilting Original Fivefold Symmetries and Two-Level Designs
2014	Heflin	Jeff	CSE	Novel query Processing Techniques for Extremely Heterogeneous Big Data
2014	Hochbein Dever White	Craig Bridget George	Ed Leadership School Psychology	Lending and Learning in a Village: Assessing Leadership Activity and Student Outcomes in Community Schools
2014	Jaworski	Justin	MEM	Analytical Predictions of Aerodynamic Penalties for Silent Porous Airfoils
2014	Misiolek Vinci	Wojciech Richard	MSE	Method for customized mass production of inorganic medical implants - proof of concept
2014	Moore	David	Chemistry	Experimental synthesis and characterization of unusual oxygen allotropes via photo-triggered neutralization of mass-selected cations in inert, cryogenic matrices
2014	Ou-Yang	Daniel	Physics	Investigation of osmotic equilibrium of protein solutions in an external force for measuring protein-protein interactions
2014	Pires	Marcos	Chemistry	Discovery of D-amino Acid Derivatives as Novel Disrupters of Bacterial Biofilms
2014	Venkitasubramaniam	Parv	ECE	Minimizing Information Leakage in Cyber Physical Systems
2014	Vermaak Krick	Natasha Brandon	MEM	Design and Optimization for Wear of Bi-Material Composite Surfaces
2014	Woodhouse	Susan	Education & Human Services	Community Engagement in Reswaerch to Promote Positive Parenting and Child Behavior: Integrating Mental Health and the Circle of Security-Parenting Intervention
2013	Davison	Brian	CSE	Detecting Biases in Online News Media
2013	Iovine	Katherine	Biological Sciences	Determining the role of the extracellular matrix during zebrafish fin regeneration
2013	Lamadrid Zuluaga	Alberto Luis	Economics ISE	Economic Dispatch, Optimal Power Flow, and Unit Commitment: A Novel Solution Approach
2013	McIntosh	Steven	ChemE	Enabling Fuel Cell Technology for Efficient Utilization of Natural Gas-A Combined Experimental and Theoretical Approach
2013	Pamukcu	Sibel	CEE	Polymer Grafted Smart Sands for In-Situ Fluid Separation
2013	Sawyer Manz	Brook Patricia	TLT School Psychology	The Formation of a Parent-Teacher Community of Practice to Support the Language Development of Preschool Dual Language Learners

2013	Small	David	Sociology & Anthropology	Testing the Applicationof Complexity Theory to the Study of Bronze Age Crete
2013	Thiele	Aurelie	ISE	Robust Decision-Making Models for Nonprofit Healthcare Organizations
2013	Toulouse	Jean	Physics	Collective Dynamics of Mixed(1-x/x Systems: Relaxor Ferroelectrics and Thermoelectrics
2013	Webb	Edmund	MEM	Atomic Scale Models of Nanoparticle Suspension Droplets
2013	Zeitler	Peter	EES	Plenty of nothing: quantifying the decay of orogens and the birth of stable cratons
2012	Berger	Bryan	ChemE	Engineering enhanced alginate lyase activity and stability for treatment of multi-drug resistant bacterial infections
2012	Gilchrist Snyder	James Mark	ChemE	Porous thin film MgO Membranes for Molten Salt Batteries
2012	Pires	Marcos	Chemistry	Selective Delivery of Anti-cancer Agents using Novel Tumor Targeting-Vehicles
2012	Tatic-Lucic	Svetlana	ECE	Fabrication and Characterization of Submersible Electrostatic Lateral Actuator
2012	Kumar	Sushil	ECE	New design architectures for realization of a room-temperature terahertz semiconductor laser
2012	Bishop Calhoon Garrigan	MJ Mary Beth Scott	Education & Human Services	Exploring the Promise of Augmented Reality Mobile Apps to Improve Middle School Students' Spatial Reasoning Skills
2012	SenGupta	Arup	CEE	Energy-Free Desalination of Sea and Brackish Water Using Waste Acid through A Novel Ion Exchange Membrane Process
2012	Brown	Derick	CEE	Enhancement of the design and operation of engineered biological reactors through incorporation of bacteriophage kinetics
2012	Stavola	Michael	Physics	Fundamental studies of silicon materials for the cost-competitive generation of solar electricity
2012	Lasker	Judith	Sociology & Anthropology	"Giving Back": The Value of Short-Term Volunteer Programs in Global Health
2012	Laible	Deborah	Psychology	Parent-adolescent conversations about moral dilemmas: Links with moral identity, moral values, and behavior
2011	Curtis	Frank	ISE	Infeasibility detection in Optimization Algorithms
2011	Dierolf	Volkmar	Physics	Strain--Mediated Ferromagnetism in doped Semiconductors: Pathway for Optimization and Control of Semiconducting
2011	Ferguson	Gregory	Chemistry	Nanoparticles within Nanoparticles: Strategies for the Synthesis of Metal Cores Surrounded by Oxide Shells
2011	Jagota	Anand	ChemE	Biomolecule-Functionalized Carbon-Based Nanomaterials as Sensors and Imaging Agents
2011	Jedlicka	Sabrina	MSE	Tracking live neuronal cell dynamics on multifunctional materials: Towards an artificial synapse

2011	Liu	Tianbo	Chemistry	From Self-Recognition to Chiral Competition - Using Inorganic Macroions to Understand Fundamental Behaviors of Biomacromolecules
2011	Manz Nicolopoulou	Patricia Ageliki	Education & Human Services Psychology	Developing Evidence-Based Interventions for Home Visiting Programs: An Examination of the Facilitators and Barriers to Implementing Dialogic Reading with Low-Income, Latino Families and their Children
2011	McIntosh Berger	Steven Bryan	ChemE	Biosynthesis of mixed inorganic nanoparticles from S. maltophilia: An environmentally benign route to nanostructured materials for energy applications
2011	Munson	Ziad	Sociology & Anthropology	The Organizational Dynamics of Political Violence
2011	Scheinberg Chen	Katya Brian	ISE CSE	Atom Independent Alignment for the Volumetric Comparison of Protein Binding Pockets by Optimization
2011	Skibbens	Robert	Biological Sciences	Developing a vertebrate model system for studying and treating SC Phocomelia/Roberts Syndrome and Cornelia de Lange Syndrome
2011	Suleiman Camp	Muhannad Amy	CEE Biological Sciences	Biological Treatment of Soils to Imporove Response of Infrastructure
2010	Anastasio Kodama	David Kenneth	EES	High-resolution Dating to Reconstruct Climate Change and Tectonics
2010	Biaggio	Ivan	Physics	Uncovering the Exciton Diffusion Process in Organic Molecular Crystals
2010	Cheng	Xuanhong	MSE	An Optofluidic Platform towards Dynamic, Label Free Analysis of Single Cell Function
2010	Hojnoski Columba	Robin Lynn	Education & Human Services	Using Shared Storybook Reading to Teach Mathematics In Preschool
2010	Kishore Snyder	Shalinee Lawrence	ECE ISE	Control Mechanisms for Electricity Supply and Demand in SmartGrids
2010	Rotkin	Slava	Physics	Physics of Quantum Electrodynamic Kapitsa conductance
2010	SenGupta Ou-Yang	Arup Daniel	CEE Physics	Hydrogen Ion as a Potential Source of Usable Energy: Observations and New Opportunities
2010	Sherer Meyerhoefer	Susan Chad	Management Economics	Optimizing Perinatal Care at LVHN
2010	Vinci	Richard	MSE	Fabrication and Characterization of novel Pt-based Intermetallic Films
2010	Pakzad	Shamim	CEE	Mobile Sensing for Condition Monotoring of Highway Bridges
2009	Mullen	Sean	Biological Sciences	From Phenotype to Genotype: The Comparative Genetics of Mimicry in Butterflies
2009	Gilchrist	James	ChemE	Control of Microstructure for Development of Dye-sensitized Solar Cells
2009	Yu	Zicheng	EES	Exploring Holocene Caron Dynamics of Peatlands in Patagonia: Towards a Global Synthesis of High-latitude Peatlands
2009	Li	Tiffany Jing	ECE	New Technology to Solve Energy Crisis in Data Centers

2009	Liu	Tianbo	Chemistry	Exploration of the Role of Counter-Ions on the Formation of Virus Capsid Shells
2009	Nicholas	Mary	Modern Languages & Literature	Words worth a thousand pictures: Russian Conceptual Texts in Soviet and Post-Soviet Art
2009	Jedlicka	Sabrina	MSE	Nanoparticle Induction of Biomolecular Signaling in Stem Cells
2009	Snyder	Mark	ChemE	Novel Chemisorption Membranes for Continuous CO2 Capture