

**Spring 2020**

**SOURCE Grants & Renée Crown University Honors Program Awards**

99 SOURCE Grants | 20 Honors Program Crown Awards

119 projects funded (for summer 2020 and academic year 2020-21)

*\*COVID-19 note: many students (with their faculty mentors) revised their project plans to enable remote research work during summer 2020; some students postponed their grants to pursue the project in fall and spring 20-21\**

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| Student | Topic | School/College | Faculty Mentor | Grant Type |
| Daria Agapitova | Architecture and Sex | ARC | Lori Brown | Student Association Summer Grant |
| Bianca Andrada | Modeling Osteocyte Nutrient Exchange w/ COMSOL | ECS | Pranav Soman | SOURCE Summer Grant |
| Ashley Andrews | Using Zebrafish to Determine the Effect of BPA and its Alternatives on Seizure Susceptibility | A&S | Katharine Lewis | SOURCE Academic Year Grant |
| Grace Asch | #Oscarssowhite: How Hollywood Has (and Hasn't) Diversified Film | NEW | Casarae Abdul-Ghani | Student Association Summer Grant |
| Shamil Askarov | Implementation of Hierarchical Radial Basis Functions for Effective Mesh Deformation | ECS | John Francis Dannenhoffer | SOURCE Academic Year Grant |
| Katelyn Bajorek | Bioarchaeology of Transylvania | A&S/MAX | Shannon Novak | Honors Program Crown Award |
| Alana Barker | Sound and Scenic Design of an Edinburgh Festival Fringe Dramatic Performance | VPA | Joseph Whelan | Honors Program Crown Award |
| Emma Brown | Case Studies to Determine if Structures are Better Informed by an Integrative Design Process | ECS | Sinead Mac Namara | SOURCE Academic Year Grant |
| Barrington Bucknor | Effects of salts on UBQLN2 ability to undergo liquid-liquid phase separation | A&S | Carlos Castañeda | SOURCE Academic Year Grant |
| Emmett Burns, Evvan Chmielewski | Viable Garment Testing | IST | Kirsten Schoonmaker | TEAM SOURCE Summer Grant |
| Jackson Calhoun | Chemoproteomic and inhibition investigations of ghrelin O-acyltransferase | A&S | James Hougland | Honors Program Crown Award |
| Ryan Cannella | Stability vs Chaos: Analyzing the Behavior of Dynamical Systems | A&S | Leonid Kovalev | Student Association Summer Grant |
| Meghan Carter | NAD Kinase and its role in Cellular Decisions | A&S | Robert Silver | SOURCE Academic Year Grant |
| Alaina Caruso | Leveraging LinkedIn to Enhance Personal Branding: Differences Between Digital Branding as a Traditional Employee and a Freelancer, and How This Relates to a Public Relations Strategy | NEW | Steven Sawyer | SOURCE Academic Year Grant |
| Julia Catalano | Shakespeare on the Quad: A Midsummer Night's Dream | VPA | Stephanie Shirilan | Honors Wise-Marcus 50-Year Friendship Award |
| Yasmine Chahine | The Function of Hmx3a in Spinal Cord Development | A&S | Katharine Lewis | Honors Program Lynne Parker Award |
| Yijing Chen | The impact of environmental and worker safety regulations on environmental performance and workplace accidents | A&S/MAX | Carmen Carrion Flores | SOURCE Academic Year Grant |
| Elizabeth Clarke | Engineering Biomaterials for Targeted Drug Delivery | ECS | Era Jain | SOURCE Academic Year Grant |
| Cambre Codington | UREx Survey Evaluation | ECS | Cliff Davidson | SOURCE Academic Year Grant |
| Jaden Constant | Behind the Scenes: The New Players of Late Night Television | NEW | Corey Takahashi | Student Association Summer Grant |
| Kailee Coonan | Association Between Exercise-Induced Broncho-Constriction and Cardiovascular Disease in Active Individuals. | FALK | Kevin Heffernan | Honors Program Crown Award |
| Alaba Anna Tam Danagogo | Investigating the mechanisms of transcriptional co-regulator Cited2 in neocortical development | A&S | Jessica MacDonald | Student Association Summer Grant |
| Tori Dedo, August Fegley, Tyler Jessey | This Land | VPA | Ricky Pak | TEAM SOURCE Academic Year Grant |
| Bella Duati | Climate in the Pliocene – a Window on our Future | A&S | Linda Ivany | SOURCE Academic Year Grant |
| Alejandro Durand | Design of a biomedical measurement system for neural processing of visceral sensation | ECS | Pun To Yung | SOURCE Summer Grant |
| Emily Dyer | NMR-Guided Directed Evolution of Kemp Eliminases | A&S | Ivan Korendovych | Student Association Summer Grant |
| Kiersten Edwards | 4D Printing Proof-of-Concept Shape-Memory Polymers | ECS | James Henderson | SOURCE Academic Year Grant |
| Sierra Endreny | The Governance of Urban Food Forests: A Comparative Study of Select US Cases | FALK | Anne Bellows | SOURCE Academic Year Grant |
| Aaron Epling | Effects of Lead Poisoning on Refugee Families | FALK | Eric Kingson | SOURCE Academic Year Grant |
| Bailey Felix | Impact of Surface-Texturing on the Differential Pathogenisis of Breast Implant Associated- Anaplastic Large Cell Lymphoma (BIA-ALCL) | ECS | Dacheng Ren | SOURCE Summer Grant |
| David Fikhman | Shape Memory Polymer development for usage on the battlefield | ECS | Mary Beth Monroe | SOURCE Academic Year Grant |
| Peter Fioramonti | Optogenetic control of vesicle trafficking during cell division | A&S | Heidi Hehnly | Student Association Summer Grant |
| Carly Francesconi | POTS TED Talk | NEW | Keith Giglio | Honors Program Crown Award |
| Madeleine Fratarcangelo | Stop-Motion: Empathy for the Tangible | VPA | Peter Beasecker | Student Association Summer Grant |
| Michael Geiss | Screening for Organic Micropollutants in Septic-Impacted Groundwater and Drinking Water Supplies on Long Island | A&S/MAX | Teng Zeng | SOURCE Summer Grant |
| Jenny Gines | Pipeline to Educational Leadership for Women of Color | SOE | George Theoharis | SOURCE Academic Year Grant |
| Zachary Ginkel | Bio-acoustics of Humpback Whale Behavior | A&S | Susan Parks | SOURCE Academic Year Grant |
| Brent Gosselin | Synthesis and Application of Lewis Acidic Zeotype Catalysts | ECS | Viktor Cybulskis | SOURCE Summer Grant |
| Scott Greenblatt | From Idea to iTunes: the interdisciplinary process of writing, recording and distributing an album as an independent artist | NEW | Patrick MacDougall | Honors Program Crown Award |
| Cassie Grossman | Exploring Steroid Based GOAT Inhibitors | A&S | John Chisholm | SOURCE Academic Year Grant |
| Taylor Grosso, Claire Bandet | Microbe interactions and carbon storage in different ecotypes of the biofuel switchgrass. | A&S | Mark Ritchie | TEAM SOURCE Academic Year Grant |
| Henry Hanlin | 3D Anatomy Learning Tool | VPA | Rebecca Xu | SOURCE Summer Grant |
| Kyra Harvey | Use it and boost it with physical and mental activity: A role for BDNF signaling | A&S | Donna Korol | SOURCE Summer Grant |
| Sophie Hernandez | Using CRISPR mutagenesis to Investigate the functions of Hmx3a binding partners in spinal cord development | A&S | Katharine Lewis | SOURCE Academic Year Grant |
| Harrison Higgins | Alkylation of Cyclic Enol Ethers with Trichloroacetimidates | A&S | Nancy Totah | Honors Program Crown Award |
| Minhein Htet | Constructing a phylogeny for the Drosophila genus using Nanopore and short-read Illumina sequencing | A&S | Yasir Ahmed-Braimah | SOURCE Academic Year Grant |
| Nicholas Ihley | Effect of GAUT12 Gene on Hemicellulose Formation in Poplar | A&S | Heather Coleman | SOURCE Academic Year Grant |
| Brady Iles | The Effect of Vitamin D Supplementation in Utero on Rett Syndrome Phenotypes | A&S | Jessica MacDonald | SOURCE Academic Year Grant |
| Samantha Jezak, Olivia Templeton | The Effect of a 3-month Lacto-ovo Vegetarian Diet Intervention on Inflammation and Diet Quality | FALK | Jessica Redmond | TEAM SOURCE Academic Year Grant |
| Madeline Jones | Pedagogical Development of Biomedical Engineering Education in Secondary Education Students | ECS | Pun To Yung | SOURCE Academic Year Grant |
| Ellen Jorgensen | Reconstructing Ocean Temperatures Off the Coast of Southern California | A&S | Tripti Bhattacharya | SOURCE Academic Year Grant |
| Benson Joseph | Body and Space | ARC | Mark Linder | SOURCE Summer Grant |
| Allison Kalupa | Emotional Geographies in eduSIMS | SOE | Benjamin Dotger | SOURCE Academic Year Grant |
| Priscilla Kang | Multimedia Skill Development | MGMT | Bruce Strong | Student Association Summer Grant |
| Julia Kazubowski, Julia Ocejo Vivanco, Mariana Munoz, Neha Tummalapalli, Amreeta Verma | Rwanda Housing Project | ARC | Yutaka Sho | TEAM SOURCE Summer Grant |
| Erin Kennedy | Designing a More Efficient Workplace: Looking closely at indoor environmental quality in relation to college student productivity | VPA | Jody Nyboer | SOURCE Academic Year Grant |
| Gabriel Khan, Talina Chipantiza, Lauren Hamilton, Simran Karamchandani, Samantha Abate | Otto-Mobile - A Transitional Wheelchair for Young Children | ECS | Pun To Yung | TEAM SOURCE Academic Year Grant |
| Jules Kouki | Prolonged Hormone Treatment on Multiple Memory Systems | A&S | Donna Korol | SOURCE Summer Grant |
| Rachel Krueger | Improving Poplar for Biofuels Production | A&S | Heather Coleman | SOURCE Academic Year Grant |
| Peter Le Porin | Aerospace Engineering | ECS | Mark Glauser | SOURCE Summer Grant |
| Can Luo, Bin Liao | Integer matrix problems | A&S | Lee Kennard | TEAM SOURCE Summer Grant |
| Christopher Lynch | Exploring Natural Enzymes and Their Ability to Facilitate Unnatural Protein-Based Biomaterials | A&S | Davoud Mozhdehi | SOURCE Academic Year Grant |
| Mark Macios | Synthesis of new light responsive shape memory polymers | ECS | James Henderson | SOURCE Summer Grant |
| Alaina Marra | Seam Ripping: Retracing Spatial Memory Through Domestic Sewing | ARC | Valerie Herrera | SOURCE Academic Year Grant |
| Robert Martino | Exploring Myristic Acid Modified Resilin-Inspired Polypeptide as Thermally Stable Drug Delivery Platforms | A&S | Davoud Mozhdehi | Honors Program Crown Award |
| Timothy Maynard | Synthesis and Characterization of ELP-Abiraterone | A&S | Davoud Mozhdehi | Honors Program Crown Award |
| Ian McHugh | Oxygen Concentrators for Low Resource Settings | ECS | Douglas Yung | SOURCE Summer Grant |
| Audrey Mellan | Exploration of the Role of Astrocyte System xc- to the Development of Epilepsy | A&S | Sandra Hewett | SOURCE Academic Year Grant |
| Alexander Michel | Desquamating the American Condition | ARC | Britt Eversole | SOURCE Summer Grant |
| Lauren Miller | Contraception’s impact on young Guatemalan women’s identity, womanhood and life | NEW | Amy Toensing | Honors Program Crown Award |
| Simran Mirchandani | Role of Jumonji-domain containing Protein JMJ 7 and JMJ 27 in Regulating Systemic Acquired Resistance Memory in Arabidopsis thaliana | A&S | Ramesh Raina | Honors Program Lynne Parker Award |
| Hunter Mirer | Characterizing interactions between Hmx3a and other proteins expressed in the developing spinal cord: identifying protein interactions involved in neurotransmitter phenotype specification | A&S | Katharine Lewis | SOURCE Academic Year Grant |
| Justin Mitchell | Petropolis Plunging and Neva Rising | A&S/MAX | Brian Taylor | SOURCE Academic Year Grant |
| Allison Mizzone | Procedural Learning in Children Who Stutter | A&S | Victoria Tumanova | SOURCE Academic Year Grant |
| Erica Morrison | A Quest for Citizenship: My Journey to the Navajo Nation | MGMT | Dennis Kinsey | SOURCE Summer Grant |
| Daulton Myers | Astrocytes,metabolites, estrogens, and brain damage | A&S | Donna Korol | SOURCE Summer Grant |
| Jessica Neidel | Measuring Energy Availability in Adolescent Gymnasts | FALK | Jessica Redmond | SOURCE Academic Year Grant |
| Julia Ocejo Vivanco | Mapping Communities in Rwanda | ARC | Yutaka Sho | SOURCE Academic Year Grant |
| Helena O’Donnell | Bilateral Muscle Activation Differences Between Static and Dynamic Rowing in D1 Collegiate Female Rowers | SOE | Tiago Barreira | SOURCE Academic Year Grant |
| Alexandra Olanescu | Defining the catalytic mechanism for ghrelin octanoylation by ghrelin O-acyltransferase | A&S | James Hougland | SOURCE Academic Year Grant |
| Julianna Paladino | The effect of K63-linked polyubiquitin chains on mutant UBQLN2 Liquid-Liquid Phase Separation. | A&S | Carlos Castaneda | SOURCE Academic Year Grant |
| Marta Polosky | Studying Early Elementary Students' Mathematical Writing | SOE | Charlotte Sharpe | Student Association Summer Grant |
| Connor Preston | Synthesizing shape-memory polymers inside living cells for biomedical applications | ECS | James Henderson | SOURCE Summer Grant |
| Anastacia Puertas | The Reflection our Environments in Production Design | VPA | Alex Mendez | SOURCE Summer Grant |
| Mark Ransbottom | Understanding the role of capillary blood flow in the human skeletal system | ECS | Pranav Soman | SOURCE Academic Year Grant |
| Brianna Rheaume | Impact of Exercise on the Seizure Threshold | A&S | James Hewett | SOURCE Academic Year Grant |
| Sarah Rice | Drosophila Evolutionary Phenomics Project | A&S | Scott Pitnick | SOURCE Summer Grant |
| Sarah Riddle | Astrocytes, metabolites, estrogens, and brain damage | A&S | Donna Korol | SOURCE Summer Grant |
| Trevor Rittman | A Bridge Across the Atlantic | NEW | Michael Schoonmaker | Honors Program Crown Award |
| Symone Roberts | BDNF, estrogens, and neural protection in females | A&S | Donna Korol | SOURCE Summer Grant |
| Francisco Rodriguez | Using Smart Sensing to Monitor Water Quality in Tributaries | ECS | Svetoslava Todorova | SOURCE Academic Year Grant |
| Kate Ryan | Recombinant Expression, Purification, and Modification of Human GDF-15 for Therapeutic Applications | A&S | Robert Doyle | SOURCE Academic Year Grant |
| Parinda Sangkaeo | Temples of Consumerism | ARC | Lawrence Chua | Student Association Summer Grant |
| Ivan Sarbinov | Confinement of wet ionic liquids in nanoporous host frameworks | ECS | Shikha Nangia | Honors Program Crown Award |
| Ema Scheifele | Universal Design for All Kinds of Minds | ARC | Nina Sharifi | SOURCE Summer Grant |
| Rebecca Schmidt | Virtual Reality Therapy | VPA | Heath Hanlin | SOURCE Academic Year Grant |
| Joshua Schultz | Transcriptional Regulation of Hemicellulose in Poplar | A&S | Heather Coleman | SOURCE Academic Year Grant |
| William Schuyler | Blue Ridge Young Actors Guild- Twelfth Night in Waynesboro, VA | VPA | Gerardine Clark | Student Association Summer Grant |
| Nazia Shaheen | Identification of Transcription Factors that bind to the Conserved PD Motif in Caenorhabditis elegans | A&S | Sarah Hall | Student Association Summer Grant |
| Jake Shiptenko | The Plymouth Period (Student Film) | VPA | Donato Rossi | SOURCE Summer Grant |
| Zachary Shuler | Mapping the Internal Structures of a McDonnell Douglas DC-10 | ECS | John Dannenhoffer | Student Association Summer Grant |
| Diana Slater | Style and Technique Through Italian Repertoire | VPA | Janet Brown | SOURCE Academic Year Grant |
| Ravyn Smith | Collaboration of Architecture and Structural Engineering | ECS | Sinead Mac Namara | SOURCE Summer Grant |
| Eric Storms | A High School Novel Like No Other | MGMT | Liangbin Yang | Honors Program Crown Award |
| Dorbor Tarley | Differential Reactions to African-American and Caucasian Women’s Post-natal Maternal Stress | FALK | Matthew Mulvaney | SOURCE Academic Year Grant |
| Bearett Tarris | Serum-Free Manufacturing of Mesenchymal Stem Cell Tissue Structures Using Human-Induced Pluripotent Stem Cells | ECS | Zhen Ma | SOURCE Summer Grant |
| Diego Torrejon | Characterization of FMRP Isoforms 1 and 6 | A&S | Alaji Bah | SOURCE Academic Year Grant |
| Alexander Tsemberis | Race and Sport at SU | IST | Jeffrey Gonda | Honors Program Crown Award |
| Amber Vandepoele | Sequence Confirmation of Phylogenetic Differential Separation of Environmental Samples | A&S | Michael Marciano | Student Association Summer Grant |
| Kailee Vick | Comparing the Rise of National Populism in Poland and Germany | A&S/MAX | Glyn Morgan | Honors Program Crown Award |
| Katherine Villarin | Understanding the testing effect in human memory using word retrieval | A&S | Lynn Lohnas | Honors Program Crown Award |
| Elizabeth Wall | CaMn(CO\_3)\_2 as the Cathode in Calcium Ion Batteries | ECS | Ian Hosein | Student Association Summer Grant |
| Matthew Walsh | Rational Design of a CO2 Hydration Catalyst | A&S | Olga Makhlynets | Honors Program Crown Award |
| Xiaoyi Wang | The Role of PI3K and MAPK Signaling Pathway in Meiotic Progression in the Mouse Ovary | A&S | Melissa Pepling | SOURCE Summer Grant |
| Aaqilah Wright | An Urban Education: Educational Access Across Communities in LA | A&S | Anthony Scott | SOURCE Academic Year Grant |
| Yantao Wu | Computational Evidence for the Halperin Conjecture | A&S | Lee Kennard | SOURCE Academic Year Grant |