

# Syracuse University

Office of Undergraduate Research  
& Creative Engagement

## Spring 2019 Undergraduate Research and Creative Works Grants (URCW) & Renée Crown University Honors Program Thesis Awards

55 Academic Year Grants | 32 Summer Grants | 16 Student Association Summer Grants | 23 Honors Program Awards

126 students funded

Student	Topic	School/College	Faculty Mentor	Grant Type
Alexander Aguirre	Rhenium Bisthiazole Complex Synthesis to Reduce Atmospheric Carbon Dioxide	Arts & Sciences	Jon Zubieta	Academic Year Grant
Kalthom Aljiboury	Plus size fashion for Italian women	VPA	Adriana Gorea	Summer Grant
Joseph Angarano	Synthesis of Substituted Dihydropyrans by Metal Catalyzed Coupling	Arts & Sciences	Nancy Totah	Academic Year Grant
Caroline Baggeroer	Exploration of the Cell and Molecular Mechanisms by Which Arsenite Regulates System xc-	Arts & Sciences	Sandra Hewett	Academic Year Grant
Adah Brophy	Full Body Connections	VPA	Marilyn Koch	Summer Grant
Marissa Brown	Empathy, emotion regulation and relationship maintenance in young adults with ADHD symptoms	Arts & Sciences	Kevin Antshel	Academic Year Grant
Dylan Bryant	Exploring Ideologies During the Spanish Civil War	Arts & Sciences	Kathryn Everly	Summer Grant

Prentice Bufkin, Jr	Piezography, Activism, and The "Black" Dialogues: When My Body Was Finally My Own	VPA	Dusty Herbig	Academic Year Grant
Taylor Butler	Etched Into Stone (working title) - Taylor Butler	VPA	Alex Mendez	Summer Grant
Jinzhi Cai	Long Lasting Affordable Field Exploratory Submarine: GPUS	Engineering & Computer Science	Duane Marcy	Academic Year Grant
Catherine Campbell	Phase Separation of Intrinsically Disordered Proteins MBD2 and MBD3	Arts & Sciences	Alaji Bah	Summer Grant
Naiya Campbell	#BlackExcellence in Media	VPA	Kendall Phillips	Academic Year Grant
Gabrielle Caracciolo	Poverty and Political Participation	Arts & Sciences, Newhouse	Les Rose	Honors Program Crown Award
Rachael Church	The Effect of Resistance to Insecticide in Mosquitoes on Effectiveness of Insecticide Treated Nets to Prevent Malaria	Arts & Sciences	David Larsen	Academic Year Grant
Hanna Colegrove	The Future of Ecosystem Dynamics Influenced by Increasing CO2	Arts & Sciences	Katie Becklin	Student Association Summer Grant
Sarah Crawford	Quiet Lives in Extraordinary Times	Arts & Sciences	Patrick Berry	Honors Program Crown Award
Alyssa Cregan	Investigating mycorrhizal symbiosis in native and non-native species of Pinus and Picea	Arts & Sciences	Douglas Frank	Summer Grant
Matthew Disbrow	The Relationship Between IQ and Simple Reaction Times in Relation to Expression of Autism Spectrum Disorder	Arts & Sciences	Natalie Russo	Summer Grant
Ohemaa Dixon	The Relation Between Colonial and Contemporary Black Art Collections	VPA	Laura Heyman	Academic Year Grant
Shi Dong	Shape Memory Polymer Hydrogel Foam Wound Dressing	Engineering & Computer Science	Mary Beth Monroe	Academic Year Grant
Emily Dyer	Inhibition of biofilm by oral bacteria: <i>s.sanguinis</i> and <i>s. gordonii</i>	Arts & Sciences	Ivan Korendovych	Student Association Summer Grant
Katelyn Eaton	The Domestic	VPA	Joseph Whelan	Student Association Summer Grant
David Edelstein	Perspectives on Leadership: A Six-Part Video Series Profiling Individual's Experiences with Leadership	Newhouse	Olivia Stomski	Honors Program Crown Award
João Pedro Ellery	The Ignored Physicality of "The Cloud" + Cities in Decay	Architecture	Mitesh Dixit	Academic Year Grant

Brandon Fascia	Effect of Beetroot Juice Consumption on Cerebral Blood Flow and Cognitive Performance in Young Adults with a History of Concussion	Education	Kevin Heffernan	Summer Grant
Anna Feldman	Photochemical transformation of saxitoxin in surface water	Engineering & Computer Science	Teng Zeng	Academic Year Grant
Shannon Ferguson	Art and the Sensorium	VPA	Dusty Herbig	Academic Year Grant
Brienna Flewelling	Designing with Symbols: Semiotics and Design	VPA	Rebecca Kelly	Academic Year Grant
Kara Foley	Voluntourism in Guatemala: Harmful or Helpful?	Arts & Sciences, Maxwell	Francine D'Amico	Honors Program Crown Award
Charlene Fowajuh	Brief Effective Strategies for Stress-Test: Examining Changes to Trait Anxiety Among a Group of College Students	Arts & Sciences	Joshua Felver	Honors Program Crown Award
Brittany Fry	Body Politics: Transmisogyny and the RtAFN for Trans Youth of Color	Falk	Anne Bellows	Academic Year Grant
Bronwyn Galloway	Siberia Plated: An Exploration of Traditional Dishes	Arts & Sciences	Erika Haber	Academic Year Grant
Margaret Garber	Neurological Indicators of Social Impairments Characteristic of Autism Spectrum Disorder	Arts & Sciences	Natalie Russo	Summer Grant
Kelly Garcia	Speech Sound Disorders in School-Age Children	Arts & Sciences	Jonathan Preston	Summer Grant
Julia Gregoire	Emotional reactivity in preschool age children who stutter	Arts & Sciences	Victoria Tumanova	Academic Year Grant
Tighe Gugerty	The Digital Divide: Bridging the Rural Internet Gap	Arts & Sciences	Austin Zwick	Academic Year Grant
Carter Gustin	Exploring Non-linear Tides in Neutron Stars	Arts & Sciences	Duncan Brown	Academic Year Grant
Tianyi Hang	Survey of Chinese Traditional Architecture	Architecture	Lawrence Chua	Summer Grant
Etta Hanlon	International Research of The Lysosomal Protein Saposin B	Arts & Sciences	Robert Doyle	Summer Grant
Tajanae Harris	You are not 'You': Algorithmic Identity and Intersectionality	Arts & Sciences, Maxwell	Crowston Kevin	Student Association Summer Grant
Justine Hastings	Professional Youth Media Training 2019 - 2020 Fellowship	Arts & Sciences, Education	Kelly Chandler-Olcott	Academic Year Grant
Briyana Henry	Impact of Reform, Reentry & Restorative Justice Program in Brooklyn Targeting the Adolescent Population	Falk	Ryan Heath	Honors Program Crown Award
Joshua Hentschel	Offensive Shot Analysis in the NBA	Falk	Rodney Paul	Academic Year Grant

Sophie Hernandez	Testing of Specific Proteins that Bind to Transcription Factor Hmx3a in Zebrafish	Arts & Sciences	Lewis Katharine	Student Association Summer Grant
Dannielle Hibshman	Vigilant Attention Levels in Persons with Aphasia Across Linguistic and Non-linguistic Tasks	Arts & Sciences	Ellyn Riley	Academic Year Grant
Riley Higgins	Enzymes Breaking down Barriers to Biofuels	Arts & Sciences	Heather Coleman	Academic Year Grant
Charlotte Howard	A Modern Day Genesis	VPA	Dubois Douglas	Student Association Summer Grant
Megan Hu	Spanish-Language Theater and Social Justice	Whitman	Gail Bulman	Summer Grant
Jessica Hume	Mexico City Policy and its Effects on Neonatal Mortality and Birth Spacing on a Global Scale	Falk	David Larsen	Academic Year Grant
Jaclyn Jakubowski	Genetic attenuation of the NF-kB pathway to rescue Rett syndrome phenotypes in female Mecp2-heterozygous mice	Arts & Sciences	Jessica MacDonald	Honors Program Crown Award
Nicole Jaskot	The impact of noise stress on cricket genetics, development, and reproductivity	Arts & Sciences	Susan Parks	Academic Year Grant
Jo Johnson	"Irie" Without Equality: Contextualizing Queer Survival, Resistance, Activism and Culture in Jamaica	Arts & Sciences	Linda Carty	Academic Year Grant
Caitlin Johnston	Bridging the Gap in Foreign-Language Writing	Arts & Sciences, Education	Gail Bulman	Academic Year Grant
Erin Jyo	Genetic regulation of germline stem cells in <i>C. elegans</i>	Arts & Sciences	Eleanor Maine	Academic Year Grant
Jacob Kahane	The Effects of Gender Inequality and Women's rights on Women's Soccer	Arts & Sciences	Rodney Paul	Summer Grant
Aaron Kassman	Maltese Identity: Europe's Changing Tides at the Turn of the 19th Century	Arts & Sciences, Maxwell, Newhouse	Brian Brege	Honors Program Crown Award
Meredith Kava	School Safety: One Year After The Parkland Shooting	Newhouse	Chris Tuohey	Honors Program Crown Award
Samuel Kuffuor-Afriyie	Ghanaian Folklore: Broadening The Classical Organ Repertoire	VPA	Anne Laver	Academic Year Grant
Amelia Lefevre	Healing Place, Bringing Justice	Arts & Sciences	Anthony Scott	Summer Grant
Luis Lopez	Masonry as a Horizontal Surface	Architecture	Hubeli Roger	Student Association Summer Grant

Minmin Lu	Analysis on metric graphs	Engineering & Computer Science	Leonid Kovalev	Summer Grant
Daniel Lugo	DOE Project	Arts & Sciences	Heather Coleman	Summer Grant
Amanda Luke	The Role of Insulin Signaling in Cyst Breakdown and Primordial Follicle Development in the Mouse Ovary	Arts & Sciences	Melissa Pepling	Academic Year Grant
Ximeng Luo	Choreographing Activities: Rwanda's Unconventional Public Spaces	Architecture	Yutaka Sho	Student Association Summer Grant
Minrui Luo	3-D Porous Hydrogel for Hosting Bacterial Filaments to Make Proteins	Arts & Sciences	Yan-Yeung Luk	Summer Grant
Elaine Marji	P. Aeruginosa Swarming and Motility	Arts & Sciences	Yan-Yeung Luk	Academic Year Grant
Robert Martino	Exploring Cholesterol Modified Resilin-Like Polypeptide as Thermally Stable Drug Delivery Platforms	Arts & Sciences	Davoud Mozhdehi	Academic Year Grant
Alizee McLorg	Identifying Spatial and Temporal Influences on Causes of Mortality in Kombewa, Kenya	Falk	David Larsen	Honors Program Crown Award
Magdelynn Mege	Inhibition of Biofilm Formation in Streptococcus Species	Arts & Sciences	Olga Makhlynets	Honors Program Crown Award
Lindy Melegari	Rational design and in vitro screening of monomeric peptides with multi-agonism to simultaneously treat diabetes and obesity	Engineering & Computer Science	Robert Doyle	Academic Year Grant
Hannah Michaelson	Today's Mythmakers, Tomorrow's Narratives	Architecture	Britt Eversole	Summer Grant
Simran Mirchandani	Role of Jumonji-domain containing Proteins in Regulating Systemic Acquired Resistance Memory in Arabidopsis thaliana	Arts & Sciences	Ramesh Raina	Academic Year Grant
Thomas Montgomery	Student-Produced Theatre in Chicago	VPA	Thom Miller	Summer Grant
Giordan Moore-Hair	Black at SU	VPA	Miso Sucy	Academic Year Grant
Lourdes Morales Hernandez	Using Dialect Levelling for Integration in a Diverse College Community	Arts & Sciences, Education	M. Emma Ticio Quesada	Academic Year Grant
Myles Morgan	Assessment of Glutathione Levels and Neuronal Excitability in Mice Conditionally Null for System Xc-	Arts & Sciences	Sandra Hewett	Academic Year Grant

Cheyene Muenzel	Phase Separation of Intrinsically Disordered Protein MeCP2	Arts & Sciences	Bah Alaji	Student Association Summer Grant
Amra Mujcic	Specification of V0v Interneurons	Arts & Sciences	Katharine Lewis	Academic Year Grant
Sidney Mullanix	This Side of Paradise	Newhouse	Michael Schoonmaker	Honors Program Crown Award
Bethany Murphy	Photochemistry of micropollutants in the surface microlayer	Engineering & Computer Science	Teng Zeng	Academic Year Grant
Aislyn Murray	Italian Neorealist Film Project	VPA	Alex Mendez Giner	Summer Grant
Gregory Mytelka	Children's Theatre Creates Adult Audiences	VPA	James Clark	Honors Program Crown Award
Connor Nehls	From Bugs to Biomedical Boons: The Recreation of Pro-Resilin Into a Form to be Expressed via Bacteria	Arts & Sciences	Davoud Mozhdehi	Academic Year Grant
Stephanie Nguyen	Nguyen Undergraduate Research for Evolutionary Phenomics	Arts & Sciences	Scott Pitnick	Academic Year Grant
Liam Owens	The Effect of Exercise on the Seizure Threshold	Arts & Sciences	James Hewett	Academic Year Grant
Bijal Patel	The Role of MCL-1 on Ovarian Follicle Progression	Falk	Melissa Pepling	Honors Program Lynne Parker Award
Martha Pierson	Characterization of Virulence Factors Associated with Fungal Pathogens	Arts & Sciences	Torsten Wöllert	Academic Year Grant
Tanvi Marina Rao	Against the Share Economy	Architecture	Britt Eversole	Summer Grant
Eliot Raynes	Activism through Empathy: Building my Senior Thesis Show	VPA	Dubois Douglas	Student Association Summer Grant
John Rento	Student Produced Theatre in Chicago	VPA	Thom Miller	Summer Grant
Nicholas Riccardi	American Hockey League and East Coast Hockey League Game-to-Game Performance	Falk	Rodney Paul	Summer Grant
Angela Ricciardi	Catastrophe Issue 01	Newhouse	Melissa Chessher	Summer Grant
Frank Richardson	Autonomous Perching Glider	Engineering & Computer Science	John Dannenhoffer	Honors Program Crown Award
Julia Riley	Role of Stress Granules and ALS-linked Mutant UBQLN2 in Cellular Stress Responses	Arts & Sciences	Carlos Castañeda	Honors Program Lynne Parker Award
Patrick Riolo	Health Engineering On a Global Scale	Engineering & Computer Science, Whitman	Doug Yung	Honors Program Crown Award

Raven Robinson	Bologna in Retrograde	VPA	Alexis Mendez-Giner	Summer Grant
Kyle Salmon	Dietary diversity among children in low income countries across time	Falk	David Larsen	Academic Year Grant
Gabrielle Samulewicz	Evaluation of gross morphological brain features of Astrocyte Conditional System xc- knockout mice	Arts & Sciences	Sandra Hewett	Academic Year Grant
Alexandra Sandler	The Rise of Gender-Neutral Pronouns and Language	Arts & Sciences	Chris Green	Academic Year Grant
Kayleigh Sattler	Defense Memory in Arabidopsis thaliana	Arts & Sciences	Ramesh Raina	Honors Program Crown Award
Ada Sevimli	Metaphysics of Consciousness: Priority Cosmopsychism	VPA	Robert Gulick	Honors Program Crown Award
Demosthenes Sfakianakis	Albania's Bunkers: Repurpose and Revitalization	Architecture	Joseph Godlewski	Summer Grant
Cayla Sharp	The Importance of Understanding the Differences between the North and South Korean Dialects for Human and National Security	Arts & Sciences, Maxwell	Rania Habib	Academic Year Grant
Emilia Smart-Denson	Assigning Homework, Assigning Value	VPA	Katherine McGerr	Honors Program Crown Award
Gaelyn Smith	Black Life in Living Color: How the Hollywood machine controls the narrative of Blackness and its' impacts on Black Students in Higher Education	VPA	McGerr Katie	Student Association Summer Grant
Taylor Sorice	The function of Hmx2/3a transcription factors in Danio rerio spinal cord interneuron specification	Arts & Sciences	Katherine Lewis	Academic Year Grant
Taylor Sorice	Fate and Function: The role of Hmx2/3a transcription factors in Danio rerio spinal cord interneuron specification	Arts & Sciences	Kate Lewis	Honors Program Crown Award
Heather Sosnoski	Comparative Analysis of the Effects of Oxidative Stress on Brain Glutamate and Cysteine Transporter Expression Between Wild-type and System xc- Null Mice	Arts & Sciences	Sandra Hewett	Academic Year Grant
Austin Spencer	The Mindspace of Making	Architecture	Eversole Britt	Student Association Summer Grant
MacKenzie Swanson	Quantitative Structure Activity Relationship of Corrinated Exendin-4	Falk	Doyle Robert	Student Association Summer Grant

Siyaka Taylor-Lewis	Descendants of a Common Ancestor	University College, VPA	Laura Heyman	Student Association Summer Grant
Morgan Temple	Noradrenergic Regulation of Astrocytes in Learning and Memory.	Arts & Sciences	Paul Gold	Honors Program Crown Award
Aadrien Thayaparan	Skaneateles Lake Sensor Development	Engineering & Computer Science	Svetoslava Todorova	Summer Grant
Hanneke van Deursen	(In)Dependence and Appropriation: Identity in Post-Colonial Philippines	Architecture	Yutaka Sho	Summer Grant
Haley Viall	Mexico City Policy and its Global Impact	Falk	David Larsen	Academic Year Grant
Bethanie Viele	Effects of glutamine oxoglutarate aminotransferase (GOGAT) overexpression on nitrogen metabolism and carbon allocation in Populus	Arts & Sciences	Heather Coleman	Honors Program Crown Award
Eli Warshauer	The Deconstruction of the Present, The Misusing of the Past and the Speculation of the Future	Architecture	Richard Rosa	Summer Grant
Rosalind Weaver	Languaging Across Academic Content	Arts & Sciences	Amanda Brown	Academic Year Grant
Caroline Weidner	Does Form Influence Function? The Link between Streamflow Behavior and Watershed Characteristics in Headwater Streams	Arts & Sciences	Kelleher Christa	Student Association Summer Grant
Laurel White	Implementing Relative Binning in the PyCBC Gravitational-Wave Parameter Estimation Toolkit	Arts & Sciences	Duncan Brown	Academic Year Grant
Eliza Williamson	Poetics of Public Housing	Architecture	Lori Brown	Summer Grant
Lauren Wilson	"Tender Hearts" - Short Film	VPA	Suchy Mišo	Student Association Summer Grant
Lauren Woolner	Eager Project	Arts & Sciences	Scott Pitnick	Academic Year Grant
Madison Worden	Additive Manufacturing System for Zero Gravity	VPA	Louise Manfredi	Academic Year Grant
Nori Zaccheo	Alteration of the Optical Properties of Doped Semiconductor Nanocrystals	Arts & Sciences	Weiwei Zheng	Academic Year Grant
Shihui Zhu	Bombing the Culture: Chinese Constructions in Africa under the Belt and Road Policy (BRI)	Architecture	Yutaka Sho	Summer Grant