

*Celebrating*

UNDERGRADUATE  
RESEARCH  
AND CREATIVITY

**April 25, 2018**



PROGRAM AND  
INDEX OF POSTERS,  
PRESENTATIONS  
AND EXHIBITS



Stony Brook  
University

# URECA Celebration of Undergraduate Research & Creativity

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April 25, 2018

10:00 — 4:00      **Exhibits & Presentations, Student Activities Center (SAC)**

**POSTER PRESENTATIONS/EXHIBITS** — *SAC Ballroom A*

*\*Posters arranged alphabetically by department of primary faculty mentor.*

**ORAL PRESENTATIONS** — *SAC Auditorium & Third Floor*

*COLLEGE OF ARTS AND SCIENCES:*

English Department Conference, SAC 305, 1:00-2:20

History Department Conference, SAC 304, 10:30-2:45

Psychology Department/Psi Chi Conference, SAC 305, 12:00-12:45

Writing & Rhetoric Program Conference, SAC 303, 11:30-2:30

*COLLEGE OF ENGINEERING AND APPLIED SCIENCES:*

Senior Design Presentations: SAC Auditorium, 9:00-11:00

12:30 **Welcome & Announcements** — *SAC Ballroom A*

Dr. Michael Bernstein, *Provost and Senior Vice President for Academic Affairs*

Dr. Charles Robbins, *Vice Provost for Undergraduate Education*

12:45 **Lunch for participants & mentors** — *SAC Ballroom B*

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**URECA ART EXHIBITION** — *Paul W. Zuccaire Gallery – April 26- May 5*

*Reception: Thursday, April 26, 4:00-6:00*

## POSTER ARRANGEMENTS/ DISPLAYS

*\*Posters arranged alphabetically by department of faculty mentor.*

### **About Undergraduate Research & Creative Activities:**

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The UNDERGRADUATE RESEARCH & CREATIVE ACTIVITIES (URECA) program, founded in 1987, awards research funding and travel grants to undergraduates, and is a central point of contact for students and faculty engaged in research and creative endeavors. URECA helps bring together students and research mentors, hosts annual events to showcase student work, and supports undergraduates presenting at professional meetings/conferences. Check our URECA website for “Researcher of the Month” features. URECA is a program within the Office of the Provost/Division of Undergraduate Education and is funded in part by the Simons Foundation.

URECA  
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Brian Frank, Staff Assistant

**RESEARCH POSTERS/EXHIBITS**  
SAC Ballroom A, 10am – 4pm

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>1</b>	Genevieve Ruzicka	From “San Andreas” to New Orleans: Hurricane Katrina and the Changing Racial Politics of Natural Disaster Films	Tracey Walters <i>Africana Studies</i>
<b>2</b>	Arthur Erb	Braincase Anatomy of the Paleocene Crocodyliform <i>Rhabdognathus</i> Revealed through High Resolution Computed Tomography	Alan Turner <i>Anatomical Sciences</i>
<b>3</b>	Amanda Ackermann Hira Iftikhar	A Novel Rodent Model of Total Knee Arthroplasty	Martin Kaczocha, <i>Anesthesiology</i> Sardar Uddin, <i>Medicine</i> David Komatsu, <i>Orthopedics</i>
<b>4</b>	Erica Maung	Investigating Hnrnpab-1’s Function in Local Translation of $\beta$ actin mRNA	Kevin Czaplinski <i>Anesthesiology</i>
<b>5</b>	Sai Palati Sahana Pentyala Elizabeth Varghese	Rapid Gout Detection Kit	Srinivas Pentyala, <i>Anesthesiology</i> Lawrence Hurst, <i>Orthopedics</i>
<b>6</b>	Danielle Bassaragh Minghui Chen Chae Rin Kim Christina Mazza Yia Yia Soumounou Linda Zhou	Methodological Standardization for Dental Topographic Analysis: The Effect of Scan Resolution	Frederick E. Grine Carrie Mongle <i>Anthropology</i>
<b>7</b>	Javier Jimenez-Vega Daniel Cameron	<i>B3glct</i> Loss Leads to Skull Dymorphology and Hydrocephalus	Christopher Percival <i>Anthropology</i> Bernadette Holdener <i>Biochemistry &amp; Cell Biology</i>
<b>8</b>	Marlee Harris	Movement Towards and Away from Sleeping Sites: Insight into Optimal Group Size in Savannah Baboons ( <i>Papio cynocephalus</i> )	Catherine Markham <i>Anthropology</i>
<b>9</b>	Christina Lo	Rank and Reciprocity: Dominance Effects on Grooming Patterns in Female Chimpanzees	Catherine Markham <i>Anthropology</i>
<b>10</b>	Samar Syeda	Variation in Bone Density and Volume Between Adult B6 and 129 Inbred Strains	Christopher Percival <i>Anthropology</i>
<b>11</b>	Niven Singh	Computational Phage Display	Dima Kozakov <i>Applied Mathematics &amp; Statistics</i>
<b>12</b>	Nicole Soder	Assessing the Cryptographic Strength of RSA Moduli Using Algorithmic Entropy Reduction in Sequenced Binary Quadratic Forms	David Biersach, <i>Brookhaven National Laboratory</i> ; <i>Applied Mathematics &amp; Statistics</i>

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<b>13</b>	Jiangshan Zhang	A Multifactorial Analysis of Evolution Acceptance Across Microevolutionary, Macroevolutionary, and Human Contexts	Stephen Finch; Jesse Colton <i>Applied Mathematics &amp; Statistics</i> Ross Nehm, <i>Ecology &amp; Evolution</i>
<b>14</b>	Alexis Barbera Jenna Cooper Xueer Han Katie Lim	The Theory and Reality Behind China's Confucian Beliefs and the US's Common Core Education	Peggy Christoff <i>Asian &amp; Asian American Studies</i>
<b>15</b>	Paul Chan	Mental Illness in East Asia	Peggy Christoff <i>Asian &amp; Asian American Studies</i>
<b>16</b>	Pui Tik Chow Yingzi Dong Hongfei Kan Qing Kong	Journey to the West: Translations and Interpretations of Japanese and American Films and Poems	Peggy Christoff <i>Asian &amp; Asian American Studies</i>
<b>17</b>	Elvis Creppy Audrey Farrell Irene Poster Ivy Lin Wu Jiajie Zhang	Chinese Culture and the LGBT+ Community	Peggy Christoff <i>Asian &amp; Asian American Studies</i>
<b>18</b>	Jasmeet Kaur	Constructions of 'Family,' 'Religious Values,' and 'Freedom' between Indian-American Women in the United States and Indian Women in India	Peggy Christoff S.N. Sridhar <i>Asian &amp; Asian American Studies</i>
<b>19</b>	Cassandra Leonard	Bilingualism in Former French Colonies: The Cases of Haiti and Madagascar	Agnes He <i>Asian &amp; Asian American Studies,</i> <i>Multilingual &amp; Intercultural</i> <i>Communication (MIC)</i>
<b>20</b>	Bowen Liao	Rhetorically Rich Texts: Translation from Chinese to English	Agnes He <i>Asian &amp; Asian American Studies,</i> <i>Multilingual &amp; Intercultural</i> <i>Communication (MIC)</i>
<b>21</b>	Anne McNulty	Translating the Voice of a Resistance	Jiwon Hwang Eriko Sato <i>Asian &amp; Asian American Studies</i>
<b>22</b>	Alexa Reynolds	How To Know <i>Annyeonghaseyo</i> - Analysis of Korean Online Language Learning and Individual Learning Styles	Peggy Christoff <i>Asian &amp; Asian American Studies</i>
<b>23</b>	Yilin Zhao	Transition, Identity and Communicative Approaches in U.S. Professionals of Asian Descent: A Case Study	Agnes He <i>Asian &amp; Asian American Studies,</i> <i>Multilingual &amp; Intercultural</i> <i>Communication (MIC)</i>
<b>24</b>	Rui Qi Angela Zheng	Translation of Chinese Documents Tracing Foreign Policy Perspectives (1840-1900)	Peggy Christoff <i>Asian &amp; Asian American Studies</i>
<b>25</b>	Justin Bell	Cellular Activity of Lipin 1 Constructs in <i>Saccharomyces cerevisiae</i>	Michael Airola <i>Biochemistry &amp; Cell Biology</i>

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<b>26</b>	Joyce Che Olivia Joseph	Novel Class of Antinociceptive Agents: Discovering More Potent Inhibitors for the FABPs (Endocannabinoid Transporter)	Dale Deutsch <i>Biochemistry &amp; Cell Biology</i>
<b>27</b>	Tailai Li	Development of Novel Biochemical Approaches to Understand How Histone H2A.Z is Inserted into Chromatin	Ed Luk <i>Biochemistry &amp; Cell Biology</i>
<b>28</b>	Yee Man Li	Identification of <i>cbp-1</i> and <i>cbp-2</i> as Regulators of Anchor Cell Invasion in <i>Caenorhabditis elegans</i>	David Q. Matus <i>Biochemistry &amp; Cell Biology</i>
<b>29</b>	Katherine Lo	Understanding the Role of <i>cdh6</i> in Early Zebrafish Development via Generation of a <i>cdh6</i> Mutant and Reporter Line	Benjamin Martin <i>Biochemistry &amp; Cell Biology</i>
<b>30</b>	Jamshid Sarwari	The Function and Interactions Among Proteins of the VSS Complex	Aaron Neiman <i>Biochemistry &amp; Cell Biology</i>
<b>31</b>	<b><u>SB iGEM Team</u></b> Julianna Casella Timothy Darby Tabassum Kazi Fatima Maqsood Cecilia Miguel Rideeta Raquib Nick Roig Chloé Savino Megan Schiesser Caleb Sooknanan Lyle Suh Jerin Thomas Gene Yang	Development of Novel Hybrid Bacteriocins: An Alternative to Antibiotics to Eliminate Methicillin-resistant <i>Staphylococcus aureus</i>	J. Peter Gergen <i>Biology, Undergraduate;</i> <i>Biochemistry &amp; Cell Biology</i>
<b>32</b>	Ann Lin	CRISPR/Cas9 Mutagenesis Invalidates a Putative Cancer Dependency Targeted in Ongoing Clinical Trials	Jason Sheltzer <i>Cold Spring Harbor Laboratories</i>
<b>33</b>	Layal Abdulaal Angela Chen Ling Li Sai Sreenivasamurthy Fred Wu	SleepEazy Device for Displaying REM Sleep Data from EEG and EOG Measurements	Helmut Strey <i>Biomedical Engineering</i>
<b>34</b>	Timucin Altan Bruce Coluccio Amna Haider Abdullah Mohamed Rizvi Chanpreet Singh Ryan Tam	Novel Approach to Revolutionize One-on-One Laboratory Experiential Learning with Greater Hands-On Training via Video Games that Reciprocate with 3D Printed Laboratory Tools	Mei Lin Chan <i>Biomedical Engineering</i>
<b>35</b>	Joshua Azukas Joey Blasco Andres Carvajal Justin Ortega Samuel Urena	Creating a Cheap Hands-Free Transillumination Vein Finder using 3D Printing and Common Electronics	Helmut Strey <i>Biomedical Engineering</i>

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<b>36</b>	Jueseung Baek Shashank Gupta Ayman Haider Arun Nallainathan Kaiter Wu	Development of Wheel-Lift: Patient Assist Device	Helmut Strey <i>Biomedical Engineering</i> Annie Rohan <i>School of Nursing</i>
<b>37</b>	Marianna Cantella Morgan Mars Ana Mejia Haleigh Rock Natasha Ziolkowski	Seniors with Dementia	Helmut Strey <i>Biomedical Engineering</i>
<b>38</b>	Yu Xiang Chen Steve Chong Andrew Lithen Justin Shipsey	Liquid Thermal Baby Garment	Helmut Strey <i>Biomedical Engineering</i>
<b>39</b>	Arjun Chopra Kevin Mathew J. Van Nieuwenheuizen Mahdy Nouredine Richie Ramdhanie Connor Watson	Low Cost Automated Microscopy Stage with Tracking Capabilities	Helmut Strey <i>Biomedical Engineering</i>
<b>40</b>	Steven Crimarco	Designing Bluetooth-Enabled Wearable Fitness Trackers to Assist Family Efforts to Prevent Child Obesity	Mei Lin Chan <i>Biomedical Engineering</i>
<b>109<sup>A</sup></b>	Michael D'Agati	Porous All-Carbon Electrodes for in vivo Energy Storage	Balaji Sitharaman <i>Biomedical Engineering</i>
<b>41</b>	Marina Fandaros Veronica Fox Clarissa Lett Mellissa McIntyre Nicholas Van Nest	"TongueIT" Bluetooth Oral Device for Quadriplegic Patients	Helmut Strey <i>Biomedical Engineering</i>
<b>42</b>	Wenrong Gao Qaynat Gul Mitchell Lee Xiang Li Arleta Salvati Richard Stapleton	Cranial Accelerometer	Helmut Strey <i>Biomedical Engineering</i>
<b>43</b>	Amna Haider	Microsoft Kinect-based Exergame to Monitor Improvement of Postural Stability in Obese Patients	Mei Lin Chan <i>Biomedical Engineering</i>
<b>44</b>	Helaina Hurban Austin Meadows Tolulope Ojo Kristina Petroglia Alda Profka	Open-Source Turbidostat	Gábor Balázi <i>Biomedical Engineering</i>

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<b>45</b>	Slah Khan Mirna Kheir Andrew Miller Expedito Segovia Justin Smith	Optimization of Percutaneous Aortic Valve Prosthesis Delivery System	Danny Bluestein Oren Rotman Helmut Strey <i>Biomedical Engineering</i>
<b>46</b>	Mirna Kheir	Testing the Reversal of Gene Network Evolution	Gábor Balázi <i>Biomedical Engineering;</i> <i>Laufer Center for Physical &amp; Quantitative Biology</i>
<b>47</b>	Andrew Kumpfbeck Bryan Musmacker Sofya Pugach Manasvi Varshney Lily Yuan	Pressure Device to Reduce the Incidence of Pocket Hematomas after Subcutaneous Cardiac Device Implantation	Helmut Strey <i>Biomedical Engineering</i>
<b>48</b>	Ann Lin Matthew Wu	Using a Yeast Model to Study the Development of Multicellular Structures as a Mechanism of Antibiotic Resistance Employed by Infectious Pathogens	Gábor Balázi <i>Biomedical Engineering;</i> <i>Laufer Center for Physical &amp; Quantitative Biology</i>
<b>49</b>	Andrew Peitzch Rishi Sohi Ziwei Tan Kaiter Wu	Low Intensity Vibration-induced Redistribution of Bone Material Occurs Alongside Restored Bone Strength Compromised by CHAC in Rats	Mei Lin Chan <i>Biomedical Engineering</i>
<b>50</b>	Andrew Peitzch Kaiter Wu	Low Magnitude Mechanical Stimulation Treatment for Obesity Shows Increased Bone Cross-Sectional Area in Obese Mice	Mei Lin Chan <i>Biomedical Engineering</i>
<b>51</b>	Brianne Polehinke	The Role of Age in Shear-Induced Platelet Activation: Comparison of Neonatal Cord and Adult Platelets	Danny Bluestein <i>Biomedical Engineering</i>
<b>52</b>	Greymi Tan Alyssa ThomasDeCruz Zhao Xu Brandon Zhuang	Construction of a Cell Vibrator That Induces Low Intensity Vibrations to Stimulate the Cellular Activities of Suspended Cell Culture	Mei Lin Chan Helmut Strey <i>Biomedical Engineering</i>
<b>53</b>	Ziwei Tan	Patient-Specific Calcified Aortic Root Reconstruction for Transcatheter Aortic Valve Replacement (TAVR) Modeling	Danny Bluestein <i>Biomedical Engineering</i>
<b>54</b>	Xiaomin Wu	Wireless Monitoring for Respiratory Diseases	Wei Lin <i>Biomedical Engineering</i>
<b>55</b>	Kristina Adams	Make-A-Wish	Alexis Alpert Margot Palermo <i>Business, College of</i>
<b>56</b>	David Coronel	Lift Up Long Island	Manuel London <i>Business, College of</i>



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<b>57</b>	Mackenzie Deng	College Thursdays at the Boys and Girls Club of Bellport	Sherika Adams Margot Palermo <i>Business, College of</i>
<b>58</b>	Jenna Errante	Message Framing and Presentation Format: Inclusion and Exclusion of Recommendations via Pictures and Text	Denise Buhrau <i>Business, College of</i>
<b>59</b>	Cory Haltman	Potential Correlations Between Mindset Theory and Construal Level Theory	Denise Buhrau <i>Business, College of</i>
<b>60</b>	Steven Hromin	Different Marketing Methods and their Effects on Attendance Levels	Jacqueline Pascariello Margot Palermo <i>Business, College of</i>
<b>61</b>	Jenna LaSala	Lift Up Long Island	Manuel London <i>Business, College of</i>
<b>62</b>	Austin Law	Effects of TARP on Loan Portfolios	Gokhan Torna <i>Business, College of</i>
<b>63</b>	Hee Dong Lee	Portfolio Optimization	Aaron Kim <i>Business, College of</i>
<b>64</b>	Jonathan Liu	Performance Measurement Outcomes: An analysis of Hospital Acquired Infections in New York State	Herbert Lewis Christine Pitocco <i>Business, College of</i>
<b>65</b>	Rocco Lombardo	Addition of Stony Brook Division 1 Women's Varsity Field Hockey Program	Patrick Muffley Margot Palermo <i>Business, College of</i>
<b>66</b>	Halley O'Connor	Leader Mistake Recovery Strategies	Lily Cushenbery <i>Business, College of</i>
<b>67</b>	Sanella Orahovac	Hedonic and Utilitarian Uses of Twitter and Instagram	Peter Caprariello <i>Business, College of</i>
<b>68</b>	Racquel Piscitelli	Local Taste	Brett Collins Margot Palermo <i>Business, College of</i>
<b>69</b>	Kayla Rivera	Stony Brook Athletics Marketing Experiential Capstone – Wolfie's Seapups Kid's Club	Margot Palermo Ashley Yencho <i>Business, College of</i>
<b>70</b>	Jonathan Yang	Lift Up Long Island	Manuel London Margot Palermo <i>Business, College of</i>

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<b>71</b>	Dana Capitano Nicole Cortes Everrett Hansen Angela Kowalewski James Puglisi Ai Tai Zhen Wu	Hydrogen Fuel Cell Power Output Optimization by Gold and Silver Nanoparticle Membrane Coating	Miriam Rafailovich <i>Chemical &amp; Molecular Eng.</i>
<b>72</b>	Xianxian Chen Timothy Hart Saeyeon Jeong Aravindh Nirmalan Justin Seetaram	Use of a Sodium Bicarbonate Additive Enabling for the Production of Fluffy Thin Fibers via Electrospinning and Applications for its Use in Cimex Lectularius Traps	Shan He <i>Chemical &amp; Molecular Eng.</i>
<b>73</b>	Justin Cheung Pablo Henriquez Jessica Hofflich Jian Huang Nafiul Jami	Nanoconfined Polymethylpentene Thin Films: A Model for Interpolymer Adhesion and Substrate – Polymer Interactions in Nanocomposite Systems	Tadanori Koga <i>Chemical &amp; Molecular Eng.</i>
<b>74</b>	Tyler Cho Tahseen Tabassum	Application of ASTM Test Methods to Analyze the Oxidation Properties of Gasoline in Various Test Conditions	Rajesh Shah, <i>Koehler Instrument Company / Chemical &amp; Molecular Eng.</i>
<b>75</b>	Cem Civelek Christopher Corbo Tomasz Filipkowski Chengfeng Gao Marija Iloska Noriko Taira	Effects of 3D Printing Direction and Graphene Content in PLA/Graphene Nanocomposites	Yuval Shmueli <i>Chemical &amp; Molecular Eng.</i>
<b>76</b>	Timothy Hart	Improving the Efficiency of Bulk Heterojunction Solar Cells via the Directed Self Assembly of a Polymer and Diblock Copolymer Blend	Dilip Gersappe Miriam Rafailovich <i>Chemical &amp; Molecular Eng.</i>
<b>77</b>	Olivia Holmes Tzu-Chi Kao Samantha Rosen Anthony Salonia Nina Zeng	<i>In vitro</i> Characterization of the Mineral-Rich Magnetic Mud Mask	Adriana Pinkas-Sarafova <i>Chemical &amp; Molecular Eng.</i>
<b>78</b>	Beikai Huang Jason Peng Da Qu Chang Jae Yoo	Effect of Graphene Nanoplatelets on Compatibility of Polypropylene and Ethylene Vinyl Acetate	Miriam Rafailovich <i>Chemical &amp; Molecular Eng.</i>
<b>79</b>	Marija Iloska Chongguang Jin	Development and Application of 3D Printed Meso-Reactors in Chemical Engineering Education	Taejin Kim <i>Chemical &amp; Molecular Eng.</i>
<b>80</b>	Ryan Kerr Landen Kwan Simon Lin Chengchao Xu Tak Kit Yeung Christopher Zambito	Atomic Layer Deposition of TiO <sub>2</sub> on PEM Support to Increase Fuel Cell Electrode Durability by CO Oxidation Enhancement	Miriam Rafailovich Likun Wang <i>Chemical &amp; Molecular Eng.</i>

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<b>81</b>	Adrian Laus Jeremiah Pan Jasmine Parmar Arthur Rozario Jorge Velasco Aixin Yu	Purification of Wastewater from Brewery Using Hydrate Approach	Devinder Mahajan <i>Chemical &amp; Molecular Eng.</i>
<b>82</b>	Peter Alsaloum	Optimization of SB-FI-26, a Novel Pain Reliever, for Binding towards Fatty Acid Binding Protein and the Computational Analysis of the Binding Domains of these Proteins	Iwao Ojima <i>Chemistry</i>
<b>83</b>	Richard Antoine Vincent Orcullo Kevin Osadiaye Nigel Stanford Jayson Woodbine	Two-Step Nanocellulose Water Filtration	Benjamin Hsiao Priyanka Sharma <i>Chemistry</i>
<b>84</b>	Kelly Eckartt	Optogenetic Control of a Ca <sup>2+</sup> Sensitive Split Enzyme System for Marking Neural Circuitry	Scott Laughlin <i>Chemistry</i>
<b>85</b>	Sarika Hira	The Synthesis of 3'-Difluorovinyltaxoid (SB-T-12854)	Iwao Ojima <i>Chemistry</i>
<b>86</b>	Gloria Liang	What Exactly do New York State Environmental Science Teachers Think About Their Courses?	Katherine Aubrecht <i>Chemistry</i>
<b>87</b>	Nathan Loud	Synthesis and Acid-Base Properties of Dithienylethene Based Photoswitchable Carboxylic Acids	Melanie Chiu <i>Chemistry</i>
<b>88</b>	Kathleen Nickson	Acid Catalyzed C-H Activation in Atmospherically-Relevant Clusters	Christopher Johnson <i>Chemistry</i>
<b>89</b>	Senuri Pathirana	Design and Synthesis of Novel Acylhydrazones as Next-Generation Antifungal Agents	Iwao Ojima <i>Chemistry</i>
<b>90</b>	Alexis Scida	Large scale Synthesis of Multiferoic Particles	Stanislaus Wong <i>Chemistry</i>
<b>91</b>	Dominique Spiegowski	The Cyanation and Chlorination of Heteroarenes	Ming-Yu Ngai <i>Chemistry</i>
<b>92</b>	Omar Zainul	Light and Enzyme Activatable Cyclopropenes for Live Cell Imaging	Scott Laughlin <i>Chemistry</i>
<b>93</b>	Nelsy Badia Xudong Ge Devan Mosciatti Christina Rajbahar Urias Soto	University Library Interior Renovation	Harold Walker <i>Civil Engineering</i>
<b>94</b>	Manuela Corcho Johnny Donza Luke Papazian Yuxin Xia	A BeLocal Senior Design Project: The Da Vinci Bridge	Harold Walker <i>Civil Engineering</i>

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<b>95</b>	Danielle Ali Andrew Broden Andy Liang Edmund Liang	WolfieMetrics: A Client-Server Mobile Application to Record and Analyze Athletic Performance Data	Tony Scarlatos <i>Computer Science</i>
<b>96</b>	Iftikar Ahmed	Phenological Change of Local Migratory Bird Populations	Heather Lynch Casey Youngflesh <i>Ecology &amp; Evolution</i>
<b>97</b>	Aysham Chaudry	Mapping Sponge Morphology onto Phylogeny	Robert Thacker <i>Ecology &amp; Evolution</i>
<b>98</b>	Kelly Joya Correal Sebastian Villacres	Temperature as an Evolutionary Force	Jeffrey Levinton <i>Ecology &amp; Evolution</i>
<b>99</b>	Valery Gonzalez Aaima Ikram Yuanming Lu Nicole Pyun	Phylogenetic Reconstruction of Haplosclerida (Porifera) Using 18S and 28S Ribosomal RNA Sequences	Robert Thacker <i>Ecology &amp; Evolution</i>
<b>100</b>	Abigail Higgins	At-Sea Bird Distributions Linked to Southern Ocean Fronts and Sea Surface Temperature	Heather Lynch Michael Schrimpf <i>Ecology &amp; Evolution</i>
<b>101</b>	Melissa Hunter	<i>Draba verna</i> : A Small Plant with a lot Going On	Jessica Gurevitch <i>Ecology &amp; Evolution</i>
<b>102</b>	Ovaun Latouche	Directional Epistasis at the Hexose Triose Transition in Glycolysis for <i>Drosophila melanogaster</i> Lifespan	Walter Eanes Spencer Koury <i>Ecology &amp; Evolution</i>
<b>103</b>	Candace Mannino	Mollicutes Specialization Indicated through Phylogenetic Signal	Robert Thacker <i>Ecology &amp; Evolution</i>
<b>104</b>	Idamarie Pennolino	Soil Seed-banking as an Educational Tool	Jessica Gurevitch <i>Ecology &amp; Evolution</i>
<b>105</b>	Kaitlin Riley	Testing for Potential Allelopathic Properties of <i>Centaurea stoebe</i>	Jessica Gurevitch <i>Ecology &amp; Evolution</i>
<b>106</b>	Sara Vincent	Analysis of the Spatial Theory on <i>Mirounga leonina</i> and the Implications on the Mating System in South Georgia	Heather Lynch Catherine Foley <i>Ecology &amp; Evolution</i>
<b>107</b>	Shenghao Wang	Using GIS Data to Study Global Patterns of Overlap of Marine Species	Jeffrey Levinton <i>Ecology &amp; Evolution</i>
<b>108</b>	Akeino Bryan Jaspreet Kaur Jerry Thomas Bruce Vertrees	A BeLocal Senior Design Project: Automated Mosquito Trap	David Westerfeld <i>Electrical &amp; Computer Eng.</i>
<b>109<sup>B</sup></b>	Michael D'Agati	Powering a Bluetooth Mouse Wirelessly Without a Battery	Milutin Stanacevic <i>Electrical &amp; Computer Eng.</i>

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<b>110</b>	Lauren Bunce	Reconstruction of the Early Martian Surface through Noachian Crater Fill Material	Deanne Rogers <i>Geosciences</i>
<b>111</b>	Natalie Crnosija Sean Lotz	Challenges of Imaging Burial Sites in Glacially-Derived Sediments using Ground-Penetrating Radar	Daniel Davis <i>Geosciences</i>
<b>112</b>	Alexander Kling	Temperature-Dependence of Visible to Near-Infrared Spectral Properties of Minerals Under Simulated Airless Body Conditions	Timothy Glotch <i>Geosciences</i>
<b>113</b>	Aaron Kuang	Three-Dimensional Reconstruction of a Cervical Spinal Cord Lesion and its Relationship to Forelimb Locomotor Function	Prithvi Shah <i>Health &amp; Rehabilitation Sciences</i>
<b>114</b>	Armaan Shah	Restoring Upper Limb Motor Function after Severe Cervical Spinal Cord Injury Using Epidural Stimulation	Prithvi Shah <i>Health &amp; Rehabilitation Sciences</i>
<b>115</b>	Aasif Jain Dohee Kim Kenneth Luong Hanjie Tan	Longboard Charger	Jonothan Sokolov <i>Materials Science &amp; Chemical Engineering</i>
<b>116</b>	Omar Agudelo David Alberti Aparna Penmetcha Rebecca Rondina	Portable Sit to Stand Assister	Qiaode Ge Jay Mendelson <i>Mechanical Engineering</i>
<b>117</b>	Gbenga Akindejoye Siddeeq Bacchus Ping Liang Benny Lin	Solar Racing Team Steering Mechanism	David Hwang Jay Mendelson <i>Mechanical Engineering</i>
<b>118</b>	Tyler Ambrico Samar Jalil Steffin Monzy Giancarlos Llanos-Romero	Pulsed Molecular Beam Valve	Jay Mendelson Eugene Shafto <i>Mechanical Engineering</i>
<b>119</b>	Emily Aratoon Wayne Johnson Joseph Keegan	Table Top Column Buckling Test	Benjamin Lawler <i>Mechanical Engineering</i>
<b>120</b>	Evan Brooke Keiko Nagami Prabowo Setiawan Victor Wozniak	Waste Heat Utilization Plate System (WHUPS)	Benjamin Lawler <i>Mechanical Engineering</i>
<b>121</b>	Taylor Campbell Ranko Liang Kelsey Price Raphael Termat	A BeLocal Senior Design Project: General Post Harvest Rice Threshing Processor	Jay Mendelson Lin-Shu Wang <i>Mechanical Engineering</i>
<b>122</b>	Austin Caradonna Christopher Doody James Iofe Meaghan Troy	Tennis Ball Collection Robot	Jon Longtin Jay Mendelson <i>Mechanical Engineering</i>

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>123</b>	Jungki Carroll Bryan Kupferman Min Lee Daniel Su Hyunwoo Sun	Deployable Rover (NASA Student Launch Competition)	Nilanjan Chakraborty <i>Mechanical Engineering</i>
<b>124</b>	Eric Chan Terrence Granger Patrick Gutt Robert Myrick	A BeLocal Senior Design Project: Livestock Powered Harvester and Threshing Machine for Rice Harvesting in Madagascar	Qing Chang <i>Mechanical Engineering</i>
<b>125</b>	Joseph Cullen Le Si Qu Christopher Tong Yuki Yoshinaga Brendan Zotto & the Stony Brook Robot Design Team	Triton, University Rover Challenge 2018	Nilanjan Chakraborty <i>Mechanical Engineering</i>
<b>126</b>	Matthew Debolt Justin Dittrich Syed Hossain	Assistive Device for Stroke Patient	Anurag Purwar <i>Mechanical Engineering</i>
<b>127</b>	Hasnaa Elkholy Gurleen Kaur Liam Klein Jennifer Lembeck Jason Loprete	Overhead Natural Fire Intervention & Reconnaissance Envoy (ONFIRE) – An Unmanned Aerial System for Firefighting	Jon Longtin <i>Mechanical Engineering</i>
<b>128</b>	Brent Freestone Matthew Lee Addison Shogren Michael Zaicek	NASA Student Launch Propulsion Team	Sotirios Mamalis <i>Mechanical Engineering</i>
<b>129</b>	Scott Gilroy Kenneth Helbock Luke Richardson Eric Yuman	Walk Assist Device for Patients with Neuromuscular Disability	Anurag Purwar <i>Mechanical Engineering</i>
<b>130</b>	Yongxin Guo	Multi-gait Integrated Hexapod Platform	Anurag Purwar <i>Mechanical Engineering</i>
<b>131</b>	Gavyn Hagemann Eucherius Rosario Angela Schuler Tatsuya Tasaki	A BeLocal Senior Design Project: Rice Processing: The Pounding Process	Robert Kukta Jay Mendelson <i>Mechanical Engineering</i>
<b>132</b>	William Henle Steven Mazzola Gurnihal Singh Jonathan Wong Timothy Wong	2018 ASME Student Design Competition: Robot Soccer	Qiaode Ge <i>Mechanical Engineering</i>

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>133</b>	Jian Cheng Hu Baoyi Li Fnu Karma Norbu Olusegun Oladeru	A BeLocal Senior Design Project: Transport Mechanism for Rough Foot Paths	Lifeng Wang <i>Mechanical Engineering</i>
<b>134</b>	Shailee Joshi Derek Squires William Tunney	Hybrid Braking System for Automobiles	Benjamin Lawler <i>Mechanical Engineering</i>
<b>135</b>	Gregory Kelty Su Yong Kim Gazi Sakib	Modular and Reusable Recovery and Navigation System for Level 2 High Powered Rocket	Sotirios Mamalis Jay Mendelson <i>Mechanical Engineering</i>
<b>136</b>	Timothy Larkin Mohammed Miah Michael Rubbo Victor Vanegas	Be Local Rice Storage Solution	Jay Mendelson Robert Kukta <i>Mechanical Engineering</i>
<b>137</b>	Paul Li	Improving the SnappyXO Robotics Kit	Anurag Purwar <i>Mechanical Engineering</i>
<b>138</b>	Yehonathan Litman	A Simple Interlinked Controller-Sensor Framework for Robust SLAM and Autonomy on MAVs	Ya S. Wang <i>Mechanical Engineering</i>
<b>139</b>	Jenry Nieto Martinez Cameron Contarino	Stony Brook Motorsports	Noah Machtay <i>Mechanical Engineering</i>
<b>140</b>	Melanie Katz	Experimental Validation of Drug Repurposing by In Silico Data Mining for Niemann-Pick Type C Disease	Fannie Chen Yiannis Ioannou <i>Medicine-Icahn School of Medicine at Mount Sinai</i>
<b>141</b>	Jesse Pace	Podocyte-specific Induction of Kruppel-like Factor 15 Attenuates Podocyte Injury	Sandeep Mallipattu <i>Medicine</i>
<b>142</b>	Lopa Shah	Adenosine A2A Receptor Stimulation Inhibits Osteoclast Differentiation and Promotes Osteoblast Formation by Regulation of Axon Guidance Proteins	Bruce Cronstein <i>Medicine- NYU Langone Medical Center</i>
<b>143</b>	Demetra Catalano	Construction of CRISPR-Cas9 gRNAs for Murine Gammaherpesvirus Genome Editing: A Novel Viral Therapeutic Method	Laurie Krug <i>Molecular Genetics &amp; Microbiology</i>
<b>144</b>	Swati Gupta	Identification of Gene Edits Produced by CRISPR-Cas9 in a Gammaherpes Infection	Laurie Krug <i>Molecular Genetics &amp; Microbiology</i>
<b>145</b>	Gabrielle Paniccia	Development of a CRISPR-Cas9 System to Block Gammaherpesvirus Replication	Laurie Krug <i>Molecular Genetics &amp; Microbiology</i>

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>146</b>	Sricharan Gumudavelli	AAV Mediated Delivery of NG2 Function-Neutralizing Antibody and Neurotrophin NT-3 Improves Synaptic Transmission, Urinary Tract Function, and Locomotion after Mild Spinal Cord Injury	Victor Arvanian <i>Neurobiology &amp; Behavior</i>
<b>147</b>	Ayman Haider	Pathways to Access the Central Ion Permeation Pathway in NMDA Receptors	Lonnie Wollmuth <i>Neurobiology &amp; Behavior</i>
<b>148</b>	Hussein Harb	Which Sensory Cues are Important in Selecting Gait Patterns?	Erin Vasudevan <i>Neurobiology &amp; Behavior</i>
<b>149</b>	Jonathan Kelly William Kennedy	Predilection for Selection: Evaluation of Candidate Isoform Regulators of NOMPC	Maurice Kernan <i>Neurobiology &amp; Behavior</i>
<b>150</b>	Katelyn Neumann	Effects of Prolonged Stress on the Adrenal Gland Transcriptome	David McKinnon <i>Neurobiology &amp; Behavior</i> Barbara Rosati <i>Physiology &amp; Biophysics</i>
<b>151</b>	Cosku Ozcelik	Serotonin Dependence of AIH-induced Changes in Lower Urinary Tract Function	William Collins <i>Neurobiology &amp; Behavior</i> Irene Solomon <i>Physiology &amp; Biophysics</i>
<b>152</b>	Anastasia Slavutsky	Developing a Zebrafish <i>shank3a</i> Autism Model	Howard Sirotkin <i>Neurobiology &amp; Behavior</i>
<b>153</b>	Terence Thomas	Functional Training of Unilateral Leg Strength Using a Novel Device	Erin Vasudevan <i>Neurobiology &amp; Behavior</i>
<b>154</b>	Aishwarya Vijendran	A Comparison of Nesting Patterns between SLITRK5 Knockout and Heterozygous OCD Mouse Models	Joshua Plotkin <i>Neurobiology &amp; Behavior</i>
<b>155</b>	Kristoffer Walsh	By Club or By Claw: Differential Splice Patterning in the <i>Drosophila</i> Femoral Chordotonal Organ	Maurice Kernan <i>Neurobiology &amp; Behavior</i>
<b>156</b>	Alexander Chirokikh	Alcohol Consumption Accelerates Osteoarthritis Progression in Rats	David Komatsu <i>Orthopaedics</i>
<b>157</b>	Umar Syed	Skeletal Differences in Male and Female Rats after Recovery from Methylphenidate Treatment	David Komatsu <i>Orthopaedics</i>
<b>158</b>	Hamza Allaham	“Tackle and Bait”: Keratin 17 Exports Nuclear Proteins in Pancreatic Cancer	Luisa F. Escobar-Hoyos Kenneth Shroyer <i>Pathology</i>
<b>159</b>	Ryan Kawalerski	Oncogenic Mechanism and Targeting of Soluble Keratin 17 in Pancreatic Cancer	Luisa F. Escobar-Hoyos Kenneth Shroyer <i>Pathology</i>
<b>160</b>	Aditi Prabhu Samantha Novotny	Feedback Regulation of MET and EGFR Inhibitor Combinations in NSCLC	John Haley <i>Pathology</i>



<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>161</b>	Briana Urquilla	Keratin 17 in Serum as a Potential Prognostic Biomarker in Pancreatic Ductal Adenocarcinoma	Luisa F. Escobar-Hoyos Kenneth Shroyer <i>Pathology</i>
<b>162</b>	Amanda Witbeck	Keratin 17 Nuclear Protein-Targeting Domains: Therapeutic Targets in Pancreatic Cancer	Luisa F. Escobar-Hoyos Kenneth Shroyer <i>Pathology</i>
<b>163</b>	Bryan Chan	Exploring the Mechanism and Role of PIN1 Isomerase in the Regulation of the FA pathway	Hyungjin Kim <i>Pharmacological Sciences</i>
<b>164</b>	Sanghoon Choi	Investigating a Role for Dystroglycan in the Adult Subventricular Zone	Holly Colognato <i>Pharmacological Sciences</i>
<b>165</b>	Kathryn Eckartt	Spatially Resolved Protein Labeling in Mycobacteria	Jessica Seeliger <i>Pharmacological Sciences</i>
<b>166</b>	Amgad Ghoprial	Peroxidase-based Labeling of the Periplasmic Proteins of <i>Mycobacterium smegmatis</i>	Jessica Seeliger <i>Pharmacological Sciences</i>
<b>167</b>	Andrew Kumpfbeck	Regulation of Muscle Stem Differentiation by Notch and Dystroglycan Interaction	Joav Prives Holly Colognato <i>Pharmacological Sciences</i>
<b>168</b>	Isha Anantpurkar Marisa Petrusky	Using Cosmic Muons to Test Radiation Detectors	Abhay Deshpande <i>Physics &amp; Astronomy</i>
<b>169</b>	Emily Biermann	IceCube Flasher Data Reconstruction	Joanna Kiryluk <i>Physics &amp; Astronomy</i>
<b>170</b>	Abigail Bishop	Expanding the Modeling of Type Ia Supernovae	Michael Zingale <i>Physics &amp; Astronomy</i>
<b>171</b>	Michael Campana	IceCube Neural Network Reconstruction Method for Neutrino Events in IceCube	Joanna Kiryluk <i>Physics &amp; Astronomy</i>
<b>172</b>	Michael Dapolito Eric Wu	Constructing a Confocal Scanning Fabry-Pérot Interferometer	Harold Metcalf <i>Physics &amp; Astronomy</i>
<b>173</b>	Lillian de Bruin	Tau Neutrino Reconstruction in IceCube with a Tilted Ice Model	Joanna Kiryluk <i>Physics &amp; Astronomy</i>
<b>174</b>	Chris DeGrendele	Impact of Convective Urca Process on Light Curves of Ia Supernovae	Alan Calder <i>Physics &amp; Astronomy</i>
<b>175</b>	Kiran Eiden	Accelerated Lateral Flame Propagation across the Surfaces of Rotating Neutron Stars during Type I X-ray Bursts	Michael Zingale <i>Physics &amp; Astronomy</i>
<b>176</b>	Kristina Finnelli Crystal Young	Constructing a Time Projection Chamber Field Cage	Thomas Hemmick <i>Physics &amp; Astronomy</i>
<b>177</b>	Jasmine Garani	Snapshot A Star Survey (SASSY)	Alan Calder <i>Physics &amp; Astronomy</i>

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>178</b>	Sean Jeffas	Leptoquark Searches at the Electron Ion Collider	Abhay Deshpande Nils Feege <i>Physics &amp; Astronomy</i>
<b>179</b>	Jiayi Ji	Device Packaging for Air Sensitive 2D Materials	Xu Du <i>Physics &amp; Astronomy</i>
<b>180</b>	Jiayu Ji	Noise Filtering in MiniCAPTAIN Detector	Clark McKrew <i>Physics &amp; Astronomy</i>
<b>181</b>	Gregory Matousek Rourke Sekelsky	Particle Identification with the RICH Detector	Abhay Deshpande Nils Feege <i>Physics &amp; Astronomy</i>
<b>182</b>	Yogesh Mehta Max Stanley	Study of a Laser Stability Scheme	Harold Metcalf <i>Physics &amp; Astronomy</i>
<b>183</b>	Jeffrey Michel	Presence of Lithium in the Spectra of Novae	Frederick Walter <i>Physics &amp; Astronomy</i>
<b>184</b>	Blaire Ness	Exploring the Properties of a Laterally Propagating Convective Flame	Michael Zingale <i>Physics &amp; Astronomy</i>
<b>185</b>	Eunji Oh	Generation of Hermite-Gaussian Laser Modes and Laguerre Gaussian Laser Modes	Dominik Schneble Martin Cohen <i>Physics &amp; Astronomy</i>
<b>186</b>	Onshore Paik Yan Wu	Muon Lifetime Experiment	Dmitri Tsybychev Michael Rijssenbeek <i>Physics &amp; Astronomy</i>
<b>187</b>	David Siegel	A Design for a Self-Injected Unidirectional Single Frequency Ti:sapphire Cavity Laser	Harold Metcalf Martin Cohen <i>Physics &amp; Astronomy</i>
<b>188</b>	Tianai Ye	A Novel Method to Constrain T2K results	Clark McKrew <i>Physics &amp; Astronomy</i>
<b>189</b>	Tiffany Kim ChihLin Lee	Fast Track - an Open-Source Software Program for the Analysis of Animal Behavior in Mazes	Barbara Rosati <i>Physiology &amp; Biophysics</i> David McKinnon <i>Neurobiology &amp; Behavior</i>
<b>190</b>	Erika Nemeth	Cell-Based Delivery of Gene-Silencing Products Via Gap Junction Channels	Peter Brink <i>Physiology &amp; Biophysics</i>
<b>191</b>	Leon Yang	The Effect of Palmitic Acid and Linoleic Acid on Exosomal microRNAs Released from Mouse Placental Explants	Maricedes Acosta-Martínez <i>Physiology &amp; Biophysics</i>
<b>192</b>	Kevin Shan	Analogies in Politics: Car Insurance and Attitudes Towards Health Insurance	Jason Barabas <i>Political Science</i>

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>193</b>	William Boccasini Eilon Silver-Frankel Thomas Lin Zhen Sin Wong Zu Jie Zheng	Factor Structures of Memory and Cognition	Jared Van Snellenberg <i>Psychiatry</i>
<b>194</b>	Meera Patel	Cognitive and Behavioral Indices of Self-Regulation as Predictors of Academic Performance	Greg Perlman Roman Kotov <i>Psychiatry</i>
<b>195</b>	Kevin Price	The Relationship Between Health Promoting Lifestyle Behaviors and Post-Traumatic Stress Disorder Symptoms in 9/11 Responders	Adam Gonzalez <i>Psychiatry</i>
<b>196</b>	Ryan Sullivan	Meta-analysis of Aberrant Post-Error Slowing in Substance Use Disorder: Implications for Behavioral Adaptation and Self-control	Greg Perlman Scott Moeller <i>Psychiatry</i>
<b>197</b>	Meagan Bullard David Morris Jasmine Moubariki Mosammat Akter	Maternal Sensitivity and Infant Sleep Patterns	Kristin Bernard <i>Psychology</i>
<b>198</b>	Brian Badloo	Maternal Psychopathology and Parenting Quality	Kristin Bernard <i>Psychology</i>
<b>199</b>	Simone Boyd Sarah Wong	Seasonal Effects on Adult Neurogenesis in Turtles	Alice Powers <i>Psychology</i>
<b>200</b>	Hong Ming Chen Brianna Evers	The Impact of Self-Affirmation Writing on Indoor Tanning Motivations in Females	Anne Moyer <i>Psychology</i>
<b>201</b>	Michael Chen	Negative Mood Induction in Group Decision Making	Christian Luhmann <i>Psychology</i>
<b>202</b>	Abigail Cobb	Face Blending in Memory: The Effect of Categorizing Perpetrators on Eyewitness Memory	Nancy Franklin <i>Psychology</i>
<b>203</b>	Alessandra Riccio Caroline Donato David Morris	Maternal Sensitivity to Distress Mediates the Association Between Cumulative Risk and Children's Diurnal Cortisol	Kristin Bernard <i>Psychology</i>
<b>204</b>	Christopher Esposito Lee Santore Kimberly Tena Heather Watson	School-Based Service Receipt Relates to ASD Severity and Age	Matthew Lerner <i>Psychology</i>
<b>205</b>	Laetitia Eugene	Cognitive and Motor Impairment Related to Gray Matter in Parkinson's Disease	Hoi-Chung Leung <i>Psychology</i>
<b>206</b>	Brianna Evers Hong Ming Chen	The Relationship between Tanning Habits and Risk Perceptions	Anne Moyer <i>Psychology</i>

<u>Exhibit/ Poster#</u>	<u>Student Presenter(s)</u>	<u>Project Title</u>	<u>Mentor(s)</u>
<b>207</b>	Katie Lim Emily Hitscher Ersha Kumar Ashley Walker	A Parenting Intervention Moderates the Association between Parental Childhood Adversity and Child Socioemotional Problems	Kristin Bernard <i>Psychology</i>
<b>208</b>	Shaina Jaeger	Treating Dental Phobia using Relaxation Techniques Measured via Biofeedback	Patricia Whitaker <i>Psychology</i> Mark Slovin <i>School of Dental Medicine</i>
<b>209</b>	Sarah Kwon	Effects of Perinatal SSRI Exposure on Symptoms of Autism Spectrum Disorders in a Rat Model	Patricia Whitaker <i>Psychology</i>
<b>210</b>	Nicholas Leonetti	Traumatic Brain Injury (TBI) and Family Violence: A Prospective Longitudinal Examination and Analysis	Daniel O'Leary <i>Psychology</i>
<b>211</b>	Katie Lim	Secure Base Script Knowledge Mediates the Association between Childhood Attachment Experiences and Maternal Sensitivity	Kristin Bernard <i>Psychology</i>
<b>212</b>	Jessica McCarrick	Effect of Childhood Adversity on Anxiety and Depressive Symptoms in Adulthood	Stacey Scott <i>Psychology</i>
<b>213</b>	Nawrin Nishat Fatema Noor Denisse Janvier Christopher Esposito	The Effect of Older Sibling Presence on Sociometric Status and Social Skills Ratings for Youth with ASD	Matthew Lerner <i>Psychology</i>
<b>214</b>	Alison Pellecchia	Social Networks and College Adjustment: Role of Friends and Family	Johanna Jarcho <i>Psychology</i>
<b>215</b>	Jessica Prashad	Neural Response to Monetary and Social Feedback <i>*also a Psi Chi Oral presentation</i>	Brady Nelson <i>Psychology</i>
<b>216</b>	Lee Santore	Similarities between Youth with Autism Spectrum Disorder and Typically Developing Youth in Perceived Social Skills and Social Skills Importance	Matthew Lerner <i>Psychology</i>
<b>217</b>	Hira Shah	Blink Rate in Adults with and without ASD while Processing Emotional Faces	Matthew Lerner <i>Psychology</i>
<b>218</b>	Jacqueline Walker	The Effect of Pregancy on Motor Symptoms in Women with Parkinson's Disease	Hoi-Chung Leung <i>Psychology</i>
<b>219</b>	Brooke Arena Melissa Barbera Kyle Bentley Megha Kanabar Catherine Sander Diana Saravia Elyssa Torres	Do Pea Plants Bioaccumulate Ivermectin?	Sharon Pochron <i>SoMAS</i>

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<b>220</b>	Parsa Ashrafi Amrit Dhillon Andrew Fiorenza Minki Kim Mateo Mezic Feisal Sahebzada Roman Sahebzada Rajwinder Singh Raymond Zheng	The Effect of Roundup on Earthworm Behavior Documented through Infrared Imaging Technology	Sharon Pochron Ian Dwyer <i>SoMAS</i>
<b>221</b>	Cassidy Bell	Geospatial Analysis of Human Impacts on Sea Turtles, Eastern Florida USA	Maria Brown <i>SoMAS</i>
<b>222</b>	Shannon Bohman	Exploring the Relationship between African Dust and North Atlantic Hurricanes in Observations	Kevin Reed <i>SoMAS</i>
<b>223</b>	Amrit Dhillon Arman Gerami Kyra Illuzzi Jeff Johnson Brett Keeler Ashley Landrein Mateo Mezic Michael Moawad Jacqueline Nikakis Rajwinder Singh Lauren Spina	Earthworms Recover from Roundup® Exposure	Sharon Pochron <i>SoMAS</i>
<b>224</b>	Lucy DiBenedetto	A Geospatial Analysis of Quantuck Bay: Making Decisions for Remediation	Maria Brown <i>SoMAS</i>
<b>225</b>	Timothy Frankstone	The Ecosystem and its Elements: Using Stable Isotopes to Map the Ecosystem of the Great South Bay	Janet Nye <i>SoMAS</i>
<b>226</b>	Timothy Frankstone Shannon Wright	1,4-Dioxane in Long Island's Waterways: a philosophical approach to groundwater contamination	David Taylor <i>SoMAS</i>
<b>227</b>	Maria Grima	Geospatial Analysis of Cetaceans, Sea Turtles and Sharks in New York	Maria Brown <i>SoMAS</i>
<b>228</b>	Jabari Hinds Mateo Mezic	Toxicity of Eucalyptus Ash to Earthworms	Sharon Pochron, <i>SoMAS</i> Warren Sanderson, <i>Economics</i>
<b>229</b>	Sajjad Hussaini Brooke Arena Tyler Bowne Catherine Sanders Eli Stowe Elyssa Torres	The Effect of a Popular Livestock Pharmaceutical on Garden Food Plants	Sharon Pochron <i>SoMAS</i>

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<b>230</b>	Kyra Illuzzi Jacqueline Nikakis Agatha Sleboda Jee Yoon Kang Sajjad Hussaini Michael Moawad Stephanie Suh Yuman Xu Zachary Paiva	Danger on the field	Sharon Pochron <i>SoMAS</i>
<b>231</b>	Brett Keeler Samantha Mendoza Harrison Watters	Human and Animal Traffic through Ashley Schiff Park Preserve on Stony Brook University Campus	Sharon Pochron <i>SoMAS</i>
<b>232</b>	Ashley Landrein Mozlifa Bobi Ariel Calle Karim Hanna Abigail Higgins	Roundup® Formulation Type Impacts Earthworm Health	Sharon Pochron <i>SoMAS</i>
<b>233</b>	Matthew McDermott	Geospatial Analysis of Tornadic Tropical Cyclones in Florida from 1995 – 2015	Maria Brown <i>SoMAS</i>
<b>234</b>	Andrew Seaman	A Flood Risk Analysis of Ocean City, MD	Maria Brown <i>SoMAS</i>
<b>235</b>	Courtney Stuart	Geospatial Analysis of Tiger Shark Distribution and Habitat Utilization Related to Depth and Potential Ontogenetic Diet Shifts Along the Subtidal Eastern Coastline, USA	Maria Brown <i>SoMAS</i>
<b>236</b>	Clara Tucker	Effects of Acidification and Warming on the Microbiome of a Coastal Marine Fish, the Atlantic silversides <i>Menidia menidia</i>	Nolwenn Dheilly <i>SoMAS</i>
<b>237</b>	Samantha Blaine Jenna Mallon Arthur Ronne Denny Wang	Investigation of mTG Crosslinked Gelatin Pluronic F127 Hydrogels for Use in a Novel Vascular Graft	Gurtej Singh <i>Surgery</i>
<b>238</b>	Elizabeth Varghese	Mechanical and Biological Characterization of Tissue-Engineered Blood Vessels	Gurtej Singh <i>Surgery</i>
<b>239</b>	Elizabeth Brenner	Advances in film and VR technology	Phillip Baldwin <i>Theatre Arts</i>
<b>240</b>	Nicole Grima	Transitioning Care: Structurally Competent Trans*/GNC/NB Healthcare in the University Setting	Lisa Diedrich <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>241</b>	Serra Izmirligil	More than Genes: Racially Patterned Health Disparity Research	Lisa Diedrich <i>Women's, Gender, &amp; Sexuality Studies</i>

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<b>242</b>	Nicole Lado	'isakyaki just posted a photo': How the Use of Social Media in SKAM Immerses Viewers in the Universe of the Show	Lisa Diedrich <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>243</b>	Paulina Micek	Necessary and Safe? How Electronic Fetal Monitoring (EFM) has Contributed to the Medicalization of Childbirth	Lisa Diedrich <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>244</b>	Maylene Lois Navarra	"I Deserve to Be Here Because I Did It Right!" Attitudes of Filipino Healthcare Professionals on Undocumented Immigrants	Mary Jo Bona <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>245</b>	Brianna Rodriguez	The Myth of Ideal Freedom: U.S. Neocolonialism in Nicaraguan LGBT Activism	Lisa Diedrich <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>246</b>	Genevieve Ruzicka	Our Bodies, Our Property?: Bodily Autonomy and Questions of Consent from Childhood	Liz Montegary <i>Women's, Gender, &amp; Sexuality Studies</i>
<b>247</b>	SB Young Investigators Review	Young Investigators Review	<i>Interdisciplinary – involving mentors from multiple departments</i>

**Late Additions:**

<b>248</b>	Chris Infantino	Diagnosis and Prognosis of Traumatic Brain Injury	Ethan Brandler <i>Emergency Medicine</i> Patricia Whitaker <i>Psychology</i>
<b>249</b>	Dylan Avila Leo Espinal Michael Frazier Parham Shahbazi	Festo GIO	Qiaode Ge Jahangir Rastegar <i>Mechanical Engineering</i>
<b>250</b>	Byeong Joon Bae Mark Anthony Hristu Haonan Ma Eunjiaeh Roh	A BeLocal Senior Design Project: Improved Rice Storage	David Hwang <i>Mechanical Engineering</i>
<b>251</b>	Seung Hyeon Bang Youngho Chu Dong-Jun Kim	A BeLocal Senior Design Project: Transport Mechanism for Rough Foot Paths in Rural Madagascar	Toshio Nakamura <i>Mechanical Engineering</i>
<b>252</b>	Gabriel Caamal Albert Marin Alexander Peralta Derrick Soler	Buoyancy-Based Thermal Sensors for Green Energy Systems	Jay Mendelson Carlos Colosqui <i>Mechanical Engineering</i>

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<b>253</b>	Yanming Cai Jordan Felder Vigneshraj Thanabalan Nestor Valle	Safety Helmet for Head and Neck Protection	Jahangir Rastegar <i>Mechanical Engineering</i>
<b>254</b>	Michael Downey Robert Michael Adam Smith Arie Spiel	A BeLocal Senior Design Project: Charcoal Briquette Mechanism	Nilanjan Chakraborty <i>Mechanical Engineering</i>
<b>255</b>	Jiaming Huang Juncheng Li Aoran Peng Pengfei Zheng	Design of a Light Weight Drone to Gather 3D Object Data	Shikui Chen Jay Mendelson <i>Mechanical Engineering</i>
<b>256</b>	Frederick Koo Carole Liu Victor Wu Ying Zhou	Ocean Wave Energy Harvester	Jahangir Rastegar Ya S. Wang <i>Mechanical Engineering</i>
<b>257</b>	Monan Ma Johnny Mieses Partha Sharma Indeep Singh	Festo Gripper Interface Online (GIO)	Qiaode Ge <i>Mechanical Engineering</i>
<b>258</b>	Hirohide Ogawa Matt Robison	A BeLocal Senior Design Project: Improved Rice Storage	Lifeng Wang <i>Mechanical Engineering</i>

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**ENGLISH DEPARTMENT CONFERENCE**  
*Student Activities Center, Room 305*

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Student Presentations (1:00-2:20)

**Affective Spaces and Boundaries in Twenty-First Century Horror Films**

Ashley Barry; Advisors: Susan Scheckel, Justin Johnston (second reader), *Department of English*

**On the Literary Merits of Branching Narratives**

Danielle Keel; Advisors: Benedict Robinson, Matthew Mosher (second reader), *Department of English*

**George Herbert's "Affliction" Series: Spiritual Growth and Chronology**

Justin Lerner; Advisors: Douglas Pfeiffer, Bente Videbaek (second reader), *Department of English*

**Reclaiming Dido: Rewriting Lost Perspectives in *The Aeneid***

Jessica Vestuto; Advisors: Douglas Pfeiffer, Peter Manning (second reader), *Department of English*

**Octavio Paz: Reimagining Milton's Fallen Language**

Deanna Zarrillo; Advisors: Peter Manning, *Department of English*; Lena Burgos-Lafuente (second reader), *Department of Hispanic Languages and Literature*

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**HISTORY DEPARTMENT CONFERENCE**  
*Student Activities Center, Room 304*

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Student Presentations (10:30-2:45)

**Welcome.** Joel Rosenthal, *Department of History*

10:45-11:00

**"The Figure Before the Booke": The Image of The Mystic Massacre in John Underhill's *Newes from America*, 1638**  
Alexandra Zigomalas; Advisor: Ned Landsman, *Department of History*

11:00-11:15

**The History of Asbestos as an Industrial Hazard**  
Matthew Walker; Advisor: Christopher Sellers, *Department of History*

11:15-11:30

**Ulnar Collateral Ligament Reconstruction in Baseball**  
Cory Cohen; Advisor: Michael Barnhart, *Department of History*

11:30-11:45

**Cabeza de Vaca**  
Kathryn Maupin; Advisor: Paul Kelton, *Department of History*

11:45-12:00

**For God's Sake: Implications of Martyrdom on Anabaptist Women in the *Martyrs' Mirror***  
Joseph Magro; Advisor: Joshua Teplitsky, *Department of History*

12:00-12:15

***Optimus Princeps Monumentis: Buildings for the Public***  
Josiah Calise; Advisor: Donna Rilling, *Department of History*

LUNCH BREAK

1:30-1:45

**Through the Mirrors of Other Women: Chinese YWCA Women on Lower-Class Women and the Modern Girl in *The Green Year***  
Shuning Feng; Advisor: Iona Man-Cheon, *Department of History*

1:45-2:00

**It Fell With a Splash: From Gunning to Farming Ducks on Long Island**  
Rourke Feinberg; Advisor: Wilbur Miller, *Department of History*

2:00-2:15

**The Production of Empire: Benito Mussolini, the Via dell'Impero, and *Scipione l'Africano***  
Isabelle Mitchell; Advisor: Janis Mimura, *Department of History*

2:15-2:30

**Stars, Stripes, and Swastikas: An Examination of the Americanization of the German American Bund**  
Travis Semcken; Advisor: Janis Mimura, *Department of History*

**Closing Remarks & Presentation of Certificates**

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**PSYCHOLOGY / PSI CHI CONFERENCE**  
*Student Activities Center, Room 305*

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Student Presentations (12:00 – 12:45)

**Concurrent Irritability and Anxiety: Risk-Factors for Perpetration and Victimization of Bullying**

Hung-Wei Chen; Advisor: Johanna Jarcho & Nicholas Eaton, *Department of Psychology*

**Adult Outcomes for Late-Diagnosed Individuals with Autism Spectrum Disorder**

Christopher Esposito\*; Lee Ann Santore. Advisor: Matthew Lerner, *Department of Psychology*

**Neural Response to Monetary and Social Feedback**

Jessica Prashad; Advisor: Brady Nelson, *Department of Psychology*

\*POSTER PRESENTATIONS, **See Posters/Exhibits #193-218, & 248** in SAC Ballroom A

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**WRITING & RHETORIC PROGRAM CONFERENCE**  
*Student Activities Center, Room 303*

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Student Presentations (11:30-2:30)

**South Africa's Nuclear Rhetoric**

Kip Daly; Advisor: Robert Kaplan, *Program in Writing and Rhetoric*

**Reconstructing the RhetComp Blog**

Sampson Berlinski; Advisor: Robert Kaplan, *Program in Writing and Rhetoric*

**The First Amendment at the Heart of Safe Spaces**

Thor Hawrey; Advisor: Robert Kaplan, *Program in Writing and Rhetoric*

**Cognitive Flexibility and ADHD: The Paradoxical 'Hyperfocus' and Its Clinical Implications**

Steve Carey; Advisor: Robert Kaplan, *Program in Writing and Rhetoric*

**I Am: Building A Community through a Multimedia Blog**

Megan Cahill-Assenza; Advisor: Cynthia Davidson, *Program in Writing and Rhetoric*

**Analyzing the Use of and Increasing Dependence on Executive Action to Affect Immigration Policy in the United States**

Karis Tatuska; Advisor: Robert Kaplan, *Program in Writing and Rhetoric*

**The Reversal of Brain Drain: Exploring the Patterns, Causes, Consequences and Solutions**

Roberta Geffrard; Advisor: Ghanashyam Sharma, *Program in Writing and Rhetoric*

**Examining Culture is Critical in Solving Female Genital Mutilation**

Jasleen Kaur; Advisor: Ghanashyam Sharma, *Program in Writing and Rhetoric*

**Innovation from Interdisciplinary Education**

Lopa Shah; Advisor: Kristina Lucenko, *Program in Writing and Rhetoric*

**Electricity Is Not the Answer**

Fangzhou Wang; Advisor: Ghanashyam Sharma, *Program in Writing and Rhetoric*

**Solution to Abortion?**

Lin Feng; Advisor: Ghanashyam Sharma, *Program in Writing and Rhetoric*

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**ENGINEERING SENIOR DESIGN PRESENTATIONS**  
*Student Activities Center, SAC Auditorium*

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Student Presentations (9:00-11:00)

*CHEMICAL & MOLECULAR ENGINEERING (9:00-9:15)*

**Renewable Diesel from Upscaling Biomass**

Ryan Kerr, Simon Lin, Tak Kit Yeung, Christopher Zambito

Faculty Advisor: Devinder Mahajan, *Department of Materials Science & Chemical Engineering*

*ENGINEERING SCIENCE (9:15-9:30)*

**Longboard Charger**

Aasif Jain, Dohee Kim, Kenneth Luong, Hanjie Tan

Faculty Advisor: Jonathan Sokolov, *Department of Materials Science & Chemical Engineering*

*MECHANICAL ENGINEERING (9:30-9:45)*

**A BeLocal Senior Design Project: Rice Processing: The Pounding Process**

Gavyn Hagemann, Eucherius Rosario, Angela Schuler, Tatsuya Tasaki

Faculty Advisors: Robert Kukta, Jay Mendelson, *Department of Mechanical Engineering*

*CIVIL ENGINEERING (9:45-10:00)*

**University Library Interior Renovation**

Nelsy Badia, Xudong Ge, Devan Mosciatti, Christina Rajbahar, Urias Soto

Faculty Advisor: Harold Walker, *Department of Civil Engineering*

*ELECTRICAL & COMPUTER ENGINEERING (10:00-10:15)*

**Wirelessly Powered Bluetooth Mouse**

Michael D'Agati

Faculty Advisor: Milutin Stanacevic, *Department of Electrical & Computer Engineering*

**Computer Vision for Augmented Reality Interaction**

Himanshu Goel

Faculty Advisor: Murali Subbarao, *Department of Electrical & Computer Engineering*

*BIOMEDICAL ENGINEERING (10:15-10:30)*

**ROFLEX: A Wearable System for Teaching, Monitoring, and Correcting Body Movements**

Amna Haider, Joseph Muller, Jimmy George, Belinda Tang, Yusef Saad-Eldin

Faculty Advisors: M. Ete Chan, Helmut H. Strey, *Department of Biomedical Engineering*