

**THE UNIVERSITY OF WISCONSIN–MADISON
2017–2018 CHANCELLOR’S
UNDERGRADUATE AWARDS CEREMONY**

7:00 p.m.

Tuesday, May 1, 2018

Union South

Varsity Hall

**Wisconsin Hilldale Undergraduate/Faculty
Research Fellowships**



**The Carleton and Mary Beth Holstrom
Environmental Scholarships**



Sophomore Research Fellowships



**University Book Store
Academic Excellence Awards**



**The Theodore Herfurth and Teddy Kubly Awards
for Initiative and Efficiency**



WISCONSIN
UNIVERSITY OF WISCONSIN–MADISON

Chancellor Rebecca Blank Presiding

WELCOME

Rebecca Blank
Chancellor



INTRODUCTIONS

Sarah Mangelsdorf
Provost and Vice Chancellor for Academic Affairs

Steven Cramer
Vice Provost for Teaching and Learning

Beth Kubly
Representative of the Herfurth and Kubly Families

Patrick McGowan
President of the University Book Store



PRESENTATION OF AWARDS

Chancellor Rebecca Blank
Provost Sarah Mangelsdorf
Vice Provost Steven Cramer

Thank you for celebrating with us the
achievements of our outstanding students.
Please join us at a reception honoring the award recipients
following the presentation of awards.

HILLDALE UNDERGRADUATE/FACULTY RESEARCH FELLOWSHIPS

Generous grants from the Hilldale Foundation and the Wisconsin State Legislature provide for awards of \$3,000 each to undergraduate students and \$1,000 to their faculty/staff advisors to work in collaboration on research projects. (One Hilldale Fellowship is provided by the McPherson Eye Research Institute.*) Award recipients and their faculty advisors are listed below.

Award Recipient	Major	Faculty Advisor	Project
Madeline Akbari	Microbiology	Richard Gourse	Characterization of the Effects of TraR on the F-Element's Transfer Region Promoters in <i>Escherichia Coli</i> In Vitro
Thomas Anderson	Biochemistry	Hazel Holden	Investigation of the Enzymes Required for L-Serine Biosynthesis in <i>Mycobacteriu Tuberculosis</i>
Christopher Babiarz	Biology	Dustin Deming	Enhancing Treatment Options for Patients with Neuroendocrine Tumors
Megan Bernards	Anthropology	William Aylward	Investigating the Ancient Lithic Industries of the Aegean Island of Tenedos
Samuel Bertsch	History and Political Science	Alfred McCoy	Billions: Examination of U.S. Aid Given to the Regime of Ngo Dinh Diem
Joseph Blommer	French and Neurobiology	David Wassarman	PPARs and the Protective Effect of a Ketogenic Diet on Mortality Following TBI in <i>Drosophila</i>
Ethan Boynton	Microbiology	Jae-Hyuk Yu	Understanding a Regulatory Network Governing Spore Development and Metabolism in <i>Aspergillus Fungi</i>
Ryan Brown	Biology	Ravi Patel	Synergistic Effects of Molecularly Targeted Radiation Combined with Checkpoint Blockade in a Preclinical Lung Cancer Model
Laura Bunn	International Studies, Journalism, and Spanish	Kathryn Sanchez	Informal Settlements and Sustainable Urban Development: The Role of NGOs in Rio de Janeiro Favelas
Ruoyi Cai	Statistics	Audrey Gasch	Elucidating Genotype-Phenotype Relationship in <i>Saccharomyces Cerevisiae</i> via the Effect of Strain Backgrounds and Gene Expression on Stress Sensitivity
Cory Call	Biochemistry	Hazel Holden	Analyses of Enzymes Required for GDP-Fucose Biosynthesis in <i>Mycobacterium Tuberculosis</i>
Jiongyi Cao	Computer Sciences and Statistics	Hyunseung Kang	Discovering Causal Heterogeneity in Medicaid Utilization with Tree-Based Machine Learning Methods
Tess Carlson	Chemistry	Silvia Cavagnero	Single-Molecule FRET Studies on Nascent Protein Folding by a Custom-Assembled Confocal Microscopy Apparatus
Justin Carrington	Biology and Computer Sciences	Erik Dent	Effects of Cdc42-Interacting Protein 4 (CIP4) on Cortical Neuronal Migration In Vivo
Maya Charan	Neurobiology	Anjon Audhya	Defining Motor Deficits in the Rodent Model of Hereditary Spastic Paraplegia
Rachel Cilla	Classical Humanities and Classics	Nandini Pandey	The Jewish Catacombs: Inscriptions Revealing a Minority Perspective in Rome
John Compas	Computer Engineering	Eric Severson	Spherical Gyroscope for Spacecraft Attitude Control
Stephanie Cuskey	Biology	Randolph Ashton	Evaluating Engraftment Preferences of Regionalized Human Motor Neurons in the Developing Chick Embryo
Emily Daykin	Genetics	Marc Wolman	Molecular Mechanisms of Hair Cell Protection
Rebekah Dix	Economics and Mathematics	Marzena Rostek	Dynamic Games in Contingent Contracts
Kort Driessen	Neurobiology	Craig Berridge	Chemogenetic Dissection of the Cognitive Functions of CRF Neurons in the Prefrontal Cortex
Joey Duff	Engineering Physics and Mathematics	Chris Hegna	Proposal to Determine the Effects of Magnetic Surface Shaping Parameters on Turbulent Transport in Tokamaks
Sarah Dyke	Biochemistry and French	Tom Record	Roles of the Initial Transcribed Sequence on Productive and Non-Productive Initiation
Stephen Early	Biochemistry and Biomedical Engineering	Helen Blackwell	Characterizing Activity Profiles of Non-Native Quorum Sensing ligands in <i>Escherichia Coli</i> and Probing Key Stabilizing Features of Quorum Sensing Receptors
Sophie Eldred	Biology	Michael Thomas	Altering Specificity Codes of Nonribosomal Peptide Synthetase Adenylation Domains in <i>Bacillus Subtilis</i>
Melady Elifritz	Gender & Women's Studies and Philosophy	Michael Titelbaum	Ways of Knowing, Ways of Growing: Developing a Relational Epistemology of the Food Sovereignty Movement
Jacqueline Erens	Psychology and Statistics	Joseph Austerweil	Word Choice between Near Synonyms
Lauren Fahmy	Genetics and Nutritional Sciences	Miriam Shelef	The Effect of Tumor Necrosis Factor-Alpha Inhibition on Murine Antibody Response to Pertussis Vaccination
Max Fuller	Chinese and History	Marc Kleijwegt	Assessing the Administration: Government Inspectors in the Roman and Han Empires

Award Recipient	Major	Faculty Advisor	Project
Samuel Gallo	Kinesiology	Jill Barnes	Age Related Changes in Basilar Artery and Vertebral Artery Blood Flow Regulation
Carter Griest	Biomedical Engineering and Neurobiology	Sean Fain	Automated Defect Analysis Tool for Longitudinal Magnetic Resonance Imaging of Childhood Asthma
Yuchen Gu	Communication Arts, Computer Sciences, and Electrical Engineering	Daniel van der Weide	Ultrawideband Microwave-Frequency Imaging for Skin Cancers Using Near-Field Antenna Arrays
Michael Gui	Microbiology	Bruce Klein	Defining the Signaling and Downstream Regulation of Neutrophil-Dendritic Cell Development
Zoe Hansen	Psychology	Paula Niedenthal	A Game of Monopoly: Gender Differences in Naturally-Occurring Social Functional Smiles
Grant Hussey	Biochemistry and Japanese	Katherine Henzler-Wildman	A Stochastic Simulation of EmrE, a Multidrug Resistance Transporter
Hayley Huston	Art History	Yuhang Li	Transmedia Narratives: A Case Study of Appropriated Chinese Goddess Iconography in Ruth St. Denis's White Jade and Kuan Yin
DK Jang	Psychology	Yuri Miyamoto	Socioeconomic Status Differences in the Regulation of Negative Emotions: The Role of Attentional Bias
Emma Jardas	Psychology	Michael Koenigs	Clarifying the Relationship between Psychopathic Subtypes, Gender, and the Experience of Childhood Trauma Among Criminal Offenders
Kadina Johnston	Biomedical Engineering and Chemistry	Sarah Gong	Design of a Microparticle System for Immunocytokine Treatment of Neuroblastoma
Lauren Jorgensen	Agronomy and Community & Environmental Sociology	Leann Tigges	Food and Health Inequities in Wisconsin
Grace Kang	Biology	Deric Wheeler	Targeting PKC Epsilon by Plumbagin, a Medicinal Plant (<i>Plumbago Zeylanica</i>) in Head and Neck Squamous Cell Carcinoma
Adam Kelly	History	Jacque Galipeau	Effect of Regulatory B cells on T Cell Plasticity in Experimental Autoimmune Encephalomyelitis
Ryan Kempen	Biochemistry	Aseem Ansari	Regulation of Transcription through Phosphorylated Tyrosine-1 on the RNA Polymerase II CTD
Aliyah Keval	Neurobiology	Gail Robertson	HERG Potassium Channel Modulation to Treat Cardiac Arrhythmia
Noah Kinscherf	Biology	Simon Gilroy	Effect of Heat Shock Protein Expression on Arabidopsis Thaliana Response to Gravitropic Stimuli
Megan Knight	Community & Environmental Sociology	Leann Tigges	Food and Health Inequities in Wisconsin
Emily Knott	Biomedical Engineering	Fred Lee	Robotically Assisted Sonic Therapy (RAST) for Hepatic Ablation: Minimizing Respiratory Motion
Kevin Langhoff	Applied Math, Engineering & Physics, and Physics	Vernon Barger	Comparison of IceCube Astrophysical Neutrino Events to Standard Model Theory
Kangbo Li	Computer Sciences and Engineering Physics	Robert McDermott	Optimal Control of Superconducting Qubits with Single Flux Quantum Pulse Trains
Xiaoxuan Lin	Biochemistry	Briana Burton	Roles of Conserved Amino Acid Residues in ComFA: Transformation & DNA-Protein Interactions
Maggie Liu	Biochemistry and Chinese	Robert Landick	Investigating the Roles of Various Regulatory Factors and RNAP Structures in Intrinsic Termination in <i>Escherichia Coli</i> Using Fluorescent Reporters
Jacky Lor	Microbiology	Francisco Pelegri	The Effects of CRISPR Generated Mutations on Fertility in Zebrafish
Gina Luu	Biochemistry	Katherine Henzler-Wildman	Relationship between NaK Ion Channel Function and Structure through Quantification of Ion Flux
Yiqun Ma	Biomedical Engineering	Kevin Eliceiri	Sequential Erosion Tissue Imaging of Pathology Models
Yogesh Balaje Mahendran	Computer Engineering	Varun Jog	Real Time Solutions to Stop the Spread of Fake News
Jack McCann	Chemistry	Aaron Hoskins	Is the Oxidation of Sub2 at the Site of the Conserved Cysteine Responsible for Lower Viability?
Grace McCune	Psychology	Jenny Saffran	Do Gestures Alter Infants' Understanding of Novel Words?
Mackenzie McDermit	Elementary Education	Kevin Mullen and Emily Auerbach	Writing to Liberate: Creating a New Family Literacy Model with the UW Odyssey Project
Collin McFadden	Computer Sciences	Alessandro Senes	Computational Approaches to Understanding the Energetics of GASright Heterodimers
Yusen Men	Japanese and Pharmacology & Toxicology	Hiroshi Maeda	Biochemical and Morphological Analysis of Mutated Arabidopsis Thaliana: Way to Enhance Tyr Production in Plants

Award Recipient	Major	Faculty Advisor	Project
Margot Miller	Neurobiology and Russian	Randall Kimple	Combining FGFR Inhibitor AZD4547 with Radiation in Head and Neck Cancers
Kent Mok	French and Neurobiology	Grace Boekhoff-Falk	The Role of Ensheathing Glia in Neural Regeneration Post-Injury in the Adult <i>Drosophila</i> Brain
Brandon Nikolai	Genetics	Aaron Hoskins	In Vivo Characterization of the Spliceosome Protein ECM2 in <i>Saccharomyces Cerevisiae</i>
Vanessa Nilsen	Materials Science & Engineering	Dane Morgan	Predicting the Glass Forming Ability of Metallic Glasses Using Machine Learning
Jessica O'Neill	International Studies and Psychology	Kirstin Shutts	Income Distribution in Children and its Effects on the Deserving Poor Phenomena
Michael Palo	Biochemistry	Robert Landick	Investigating Mechanisms of Transcriptional Pausing by Yeast RNA Polymerase II
Stephen Pan	Biochemistry	Baron Chanda	Protein Dynamics in Micelle vs. in Bilayer: Molecular Dynamics Simulation of Voltage-Gated Potassium Channel Voltage-Sensor Domain
Demitra Philosophos	Neurobiology and Spanish	Daniel Cobian	Sport Exposure, Lower Extremity Injury, and Physical Function Pre-Injury and Post-Anterior Cruciate Ligament Reconstruction in Elite Collegiate Athletes
Thana Pongcharoenyong	Mechanical Engineering	Peter Adamczyk	Effects of Torso Angles and Hip-Ankle Gait Actuation on Energy Consumption in a Powered Dynamic Walking Robot
Hailey Prosek	Biology	Pamela Kling	An Approach to Fetal Origins of Adult Hypertension
Autumn Reppe	Communication Sciences & Disorders and Spanish	Margarita Kaushanskaya	Effects of Childhood Bilingualism on Episodic Memory in Females and Males
Steve Sacotte	Biochemistry	Dawn Davis	Role of Cholecystokinin under Hypoxic Conditions within Pancreatic Tissue
Natalie Schmidt	Biology and International Studies	Marc Wolman	The Role of Prostaglandin Synthesis in Nf1-Dependent Habituation Learning
Gopika Senthilkumar	Biomedical Engineering	Randy Kimple	Autophagy's Role in Head and Neck Cancer Resistance to Radiation Therapy
Cecilia Shortreed	Biology and Spanish	David O'Connor	Understanding the Genetics of Transplant Tolerance: Characterization of Major Histocompatibility Complex Haplotypes in Indonesian Cynomolgus Macaques
Cerise Siamof	Biochemistry	Weibo Cai	The Correlation between Fluorescence and Positron-Emission Tomography (PET) imaging of H2S-Activable Nanoparticle Photosensitizer
Lauren Silber	Human Development & Family Studies and Psychology	Tracy Schroeffer	Relationship FLAGS (For Leaders, Advocates, and Greek Students) Exploring a Peer-Led Training Model in Improving Students' Understanding of Dating Violence
Emma Sinclair	Atmospheric & Oceanic Sciences	Jonathan Martin	Factors Determining Winter's End
Hannah Smyth	Neurobiology	Anthony Auger	Impact of Mu-Opioid Receptors within the Developing Rodent Amygdala on Juvenile Social Behavior
Brianna Statz	Psychology	Hee Soo Jung	Examining the Impact of Flow States on Surgeon Performance
Andrew Suscha*	Biochemistry	Nader Shebani	Diabetes Mediated Temporal Changes in Retinal Vasculature
Maria Szalkowski	Psychology	Shawn Green	The Cost and Benefits of Media Multitasking on Cognition
Isabelle Szerenyi	Spanish	Ksenjia Bilbija	Neoliberalism Against Public Libraries: The Fight to Keep Knowledge Accessible in Argentina
Madankui Tao	Environmental Sciences	Tracey Holloway	Impact of Air-Conditioning Use on Summertime Ozone Pollution
Alexander Teague	Biomedical Engineering	Corinne Henak	Ex-Vivo Validation of a Novel Surgical System for Osteochondral Allograft Transplantation
Rebecca Thiry	Kinesiology	Beth Weaver	Identification of the Mechanism of Mitotic Checkpoint Protein Mad1 Localizing to the Golgi Apparatus
Elizabeth Thompson	Neurobiology	Darcie Moore	Identification of Human-Specific Genes that Regulate Axon Regeneration
Isabelle Tigges-Green	Chemistry and Spanish	Martin Zanni	Button-Snap Latching: A Novel Method of Functionalizing Graphene
Teagan Twombly	Psychology and Spanish	Kristin Shutts	Multilingual Language Awareness in Young Children
Charlotte Urban	Microbiology and Pharmacology & Toxicology	Laura Knoll	Studying the Metabolism of <i>Toxoplasma Gondii</i> through Mutagenesis: AZIN2
Sebastian van Bastelaer	History and Political Science	Gloria Whiting	"Paroisses Indociles" ("Unruly Parishes"): Religious Toleration, Nation-Building and Quebecois Collaboration in the American Revolution
Abhay Venkatesh	Computer Sciences and Mathematics	Vikas Singh	Feature Augmentation for Drone Vision Engines

Award Recipient	Major	Faculty Advisor	Project
Johanna Virta	Biochemistry and Statistics	Samuel Butcher	Biochemical and Structural Analysis of RNA Binding by Lsm Proteins
Jordan Vonderwell	Computer Sciences and Statistics	Theodoros Rekatsinas	Data Cleaning's Impact on Machine Learning
Danielle Voss	Food Science	Bradley Bolling	Developing Strategies to Inhibit Polyphenol Precipitation in Cranberry Juice
Coty Weathersby	Chemical Engineering	Katherine McMahon	Cultivation and Metabolomic Characterization of Anaerobic Ammonium Oxidizing Bacteria
Jackson White	History and Psychology	William Aylward	Tenedos: Understanding the Economic Importance of Viticulture on a Small Aegean Island
TongZhen Xie	Biochemistry and Pharmacology & Toxicology	Caitlin Pepperell	Investigating the Genetic Basis of <i>M. Tuberculosis</i> Biofilms Using a Genome-Wide Association Study
Ke Xu	Biochemistry and Chemical Engineering	Brian Pflieger	Engineering <i>Escherichia Coli</i> for Production of C8 Polyhydroxyalkanoate from Glucose
Jeremy Yan	Computer Sciences and Mathematics	Qiongshi Lu	Genetically-Informed Association Analysis Identifies Risk Factors for Late-Onset Alzheimer's Disease
Jerry Zhang	Applied Math, Engineering & Physics and Physics	Mark Rzechowski	Investigating Topological Properties of Semi-Metal Alloys
Lucy Zhao	Neurobiology	Xinyu Zhao	Rescue of Neurogenic and Cognitive Deficits of Fragile X Mice through Genetic Reduction of MDM2
Weipeng Zhou	Computer Sciences	Zhengzheng Tang	MiStudio-A GUI Software for Microbiome Data Analysis and Visualization

HOLSTROM ENVIRONMENTAL SCHOLARSHIPS

A generous grant from Carleton and Mary Beth Holstrom of Pipersville, Pennsylvania, provides for awards of \$3,000 each to undergraduate students and \$1,000 to their faculty/staff advisors to work in collaboration on research projects relating to environmental issues. Award recipients and their faculty advisors are listed below.

Award Recipient	Major	Faculty Advisor	Project
Emma Groblewski	Biochemistry	Ophelia Venturelli	Defining Pairwise Interactions of a Synthetic Gut Microbiome Community as a Means to Predict Community Behavior
Samuel Jaeger	Environmental Sciences	Rick Lindroth	A Test of Plant Allocation Theory: Implications for Plantation Forest Production
Evan Routhier	Biochemistry and Environmental Sciences	William Karasov	Action of 2,4-D on Fathead Minnow Cortisol Levels During a Stress Response
Alex Wolff	Mechanical Engineering	Tim Osswald	Development of a Near Frequency Communications Fish Tag

SOPHOMORE RESEARCH FELLOWSHIPS

Funded by generous grants from the Brittingham Fund and the Kemper K. Knapp Bequest, the Sophomore Research Fellowships provide \$2,500 each to undergraduate students and \$500 to their faculty/staff advisors to work in collaboration on research projects. Award recipients and their faulty advisors are listed below

Award Recipient	Major	Faculty Advisor	Project
Laura Arneson	Geological Engineering	Lucas Zoet	An Experimental Study of Glacial Sliding
Miao Cao	Biology	Emery Bresnick	Investigation of Exosome Complex Function in Human Erythroid Maturation
Madeline Cheyne	Communication Sciences & Disorders	Joseph Salmons	"Wait, you say what?"
Grace Gecewicz	Philosophy	Harry Brighthouse	Who Must We Save: Reconciling Tradeoff Situations
Madhu Gowda	Undeclared	Susan Thibeault	Characterization of Toll-like Receptors in the Human Larynx
Nicole Huth	Psychology	Kristin Shutts	Parent-Child Conversations about Social Categories
Mohammed Jaffri	Economics and Molecular Biology	Yongna Xing	Mechanism Study of PME1 Regulating PP2A Function
Jacob Kentala	Molecular Biology	Nathan Sherer	Pseudoknot vs Stem-Loop: Elucidating the Functional Frameshift Element in HIV-1
Yeon Jung Kim	Chemistry	Shannon Stahl	Electrocatalytic Oxidation of Imines to Azines via Copper Catalyst for Hydrazine Synthesis
Thomas Matoska	Biology	Rick Lindroth	Uncovering the Genetic Architecture of Chemical Defense in Populus

Award Recipient	Major	Faculty Advisor	Project
Thanh Phuong Nguyen	Biochemistry	James Keck	Investigation of the Structure-Function Relationship of <i>B. Subtilis</i> SSB Monomer Interfaces
Emily Perez	Economics	Maryellen MacDonald	The Effect of Production Training on Generalization Ability in Second Language Learning
Drew Quiriconi	English and Neurobiology	Anita Bhattacharyya	Probing the Possibility of a Premature Neuron-Glia Switch in Developing Down Syndrome Cortical Tissue
Hanna Rainiero	Biomedical Engineering	Dustin Deming	An Investigation of the Impact of Versican and Anti-CSF1R Therapy on Tumor Progression
Brittany Russell	Biomedical Engineering	Krishanu Saha	Optimization of NK Cell Transfection of Chimeric Antigen Receptor Targeting the KLRC1 Locus
Amanda Scharenbrock	Genetics	David Wassarman	The Role of Neurotransmitter Signaling on Traumatic Brain Injury Outcomes in <i>Drosophila</i>
Anna Schmidt	Biology	Katherine McMahon	Distribution and Identity of Mercury Methylating Microbial Communities within Lake Mendota
Rachel Schneider	Biochemistry	Chris Hittinger	Quantifying Lipid Production of Oleaginous Yeasts
Rita Simpson	Nursing	Ryan Westergaard	Impact of Available Legal Resources on Outcomes for Wisconsin Opioid Users
Paul Slaughter	Mechanical Engineering	Peter Adamczyk	A Baseline Study of Cutting and Jumping Among Female Athletes in Collegiate Ultimate
Olivia Steidl	Genetics	Caitlyn Allen	Virulence Effectiveness of Limited Carbon Source Δ treA/ Δ scrA Mutant Compared to GMI1000 Wild-Type <i>Ralstonia Solanacearum</i>

UNIVERSITY BOOK STORE AWARDS FOR ACADEMIC EXCELLENCE

A generous grant from the University Book Store allows for Academic Excellence Awards of \$1,000 each to undergraduate students who best demonstrated excellence by completing a project through independent study.

Award Recipient	Major	Faculty Advisor	Project
Samantha Adams	English and Gender & Women's Studies	Danielle Evans	Selections from "The Water did a Good Thing"
Samantha Arriozola	English	Sean Bishop	Enough
Mackenzie Berry	English	Sara McKinnon	The Louisville Lip: MC Muhammad Ali
Alexandra Carl	Life Sciences Communication and Neurobiology	Jill Barnes	Cerebral Blood Flow Responses to a Memory Test in Young and Older Habitual Exercisers
Aidan Combs	Engineering Physics and Mathematics	Dane Morgan	Accelerating Multislice STEM Simulations through Correlation to Convolution Methods
Kate Craemer	Gender & Women's Studies	Cynthia Anderson	Effect of Health System Strategies on Pregnancy Weight Gain
Ajanae Dawkins	English	Ann Fink	Heirs: An Interdisciplinary Approach to Neurobiological Trauma
Bailey Immel	Psychology	Kristin Shutts	Using Empathy Training to Reduce Children's Gender-Based Peer Exclusion
Jenna Kanner	Neurobiology and Psychology	Allyson Bennett	Implications of Early Life Stress and Cerebellar Plasticity: The Role of the Cerebellum Size in Cognitive and Behavioral Processes
Julia Levine	Environmental Studies and Geography	Jenna Loyd	Home is Where the Racism is ... an Exploration of Racial Justice Efforts in Wisconsin
Jorgo Lika	Biochemistry	David Wassarman	A <i>Drosophila</i> Model to Investigate the Short-Term and Long-Term Effects of Blunt Trauma Early in Development
Morgan Mahnke	Communication Sciences & Disorders and Religious Studies	Corrie Norman	Enhanced Worship: The Impact of Leadership on the Millennial Religious Experience
Amy Maniola	Sociology	Pamela Oliver	Racial Differences in Confidence in Police: An Analysis of Possible Explanations and Within-Race Patterns
Caroline McCormick	Microbiology	Garret Suen	Investigation of the Relationship between Broiler Chicken Performance and the Dry Litter Bacterial Community
Nathaniel Miller	Molecular Biology and Psychology	Bas Rokers	Relating Retinal, Neural, and Functional Measures of Glaucoma with Diffusion Magnetic Resonance Imaging (dMRI)
Sanobar Mirza	Environmental Sciences and Geography	Erika Marin-Spiotta	Changes in Nitrogen Cycling during Tropical Forest Secondary Succession on Abandoned Pastures
Kiyoko Reidy	English and Philosophy	Sean Bishop	Reasons to Punish the Dog
Shawna Rivedal	English and Molecular Biology	Danielle Evans	Suppressants/Exulansis

Award Recipient	Major	Faculty Advisor	Project
Teresa Turco	Economics and Psychology	Maryellen MacDonald	The Effects of Accented Speech on Learning
Dorothy Wu	Philosophy, Psychology, and Sociology	Alice Goffman	Away From Home: Chinese International Students at UW–Madison

Honorable Mention

Sage Conrad	Textiles and Fashion Design	Marianne Fairbanks	The Summation of Textile and Product Design with Entrepreneurial Intentions
Grigory Terlov	Mathematics	Philip Matchett Wood	On the Probability of Irreducibility of Random Polynomials with Integer Coefficients

THEODORE HERFURTH AND TEDDY KUBLY AWARDS FOR INITIATIVE AND EFFICIENCY

A generous grant from the Herfurth and Kubly families provides for these longstanding awards which honor senior students exemplifying superior academic achievement, community service and leadership in extra and co-curricular activities, financial self-support, and both prepared and extemporaneous oral expression.

Recipient	Major
Ross Dahlke	Journalism and Political Science
Megan Diermeier	International Studies and Spanish

Honorable Mention

Jane McCurry	Environmental Studies and Operations & Technology Management
Brad Morgan	Biology and Spanish

NATIONAL SCHOLARSHIPS

Recipient	Major	Award
Roger Waleffe	Applied Math, Engineering & Physics, and Computer Sciences	Goldwater Scholarship
Nathan Wang	Biochemistry and Chemical Engineering	Goldwater Scholarship
Jason Mohoney	Applied Math, Engineering & Physics, and Computer Sciences	Goldwater Scholarship, Honorable Mention
Soren Rozema	Chemistry and Pharmacology & Toxicology	Goldwater Scholarship, Honorable Mention
Jordan Madden	Political Science and Sociology	Truman Scholarship
Leah Johnson	Biochemistry and Environmental Studies	Udall Scholarship
Kelsey Lutgen	Political Science	Udall Scholarship
Meredith Keller	BA in Environmental Studies, History, and Political Science (2015)	Gates-Cambridge Scholarship, Finalist
Phoenix Rice-Johnson	BA in International Studies and Political Science (2016)	Marshall Scholarship
Ross Dahlke	Journalism and Political Science	Marshall Scholarship, Finalist; Rhodes Scholarship, Finalist
Kyra Fox	International Studies and Psychology	Rhodes Scholarship, Finalist
Fangdi Pan	BA in Economics and International Studies (2013)	Schwarzman Scholarship
HaoYang “Carl” Jiang	BA in Philosophy and Political Science (2014)	Paul and Daisy Soros Fellowship for New Americans

About the scholarships:

The Goldwater Scholarship provides \$7,500 for undergraduate study to students who demonstrate great potential for, and commitment to, a research career in the field of mathematics, the natural sciences, or engineering. **The Truman Scholarship** provides \$30,000 for graduate study to outstanding juniors who plan a career in public service. **The Udall Scholarship** provides \$7,000 for undergraduate students in recognition of their leadership, public service, and commitment to issues related to Native American nations or to the environment. **The Gates-Cambridge Scholarship** provides tuition and stipend for completion of a graduate degree at the University of Cambridge. **The Marshall Scholarship** provides tuition and stipend for completion of a graduate degree at any university in the United Kingdom. **The Rhodes Scholarship** provides tuition and stipend for completion of a second bachelor's or graduate degree at the University of Oxford. **The Schwarzman Scholarship** provides tuition and stipend for a Masters in Global Affairs at Tsinghua University in China. **The Soros Fellowship** provides up to \$90,000 for graduate study to New Americans—immigrants and children of immigrants—who are poised to make significant contributions to U.S. society, culture, or their academic field.

We would like to thank the numerous committee members who have generously given their time and expertise to make these awards possible.