

# 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 \$500–\$1,000 to their faculty/staff advisors to work in collaboration on research projects.

Award recipients and their faculty advisors are listed below.

Award Recipient	Major	Faculty Advisor	Project
Allison Abellana	Biochemistry	Jill Wildonger	Role of NudE in Transporting Golgi Outposts During Dendrite Morphogenesis
Benjamin Agatston	History and Political Science	Alfred McCoy	The Lusk Raids: Repression and Response
Helene Altmann	Pharmacology & Toxicology	Chad Vezina	The Effect of BPA and Folic Acid on the Developing Mouse Prostate
Jasmine Amerson	Psychology	Yuri Miyamoto	Effects of Perceived Utility of Anxiety on Emotion Regulation and Motivation
Matthew Ashton	Biochemistry	Aaron Hoskins	Understanding the Tertiary Structure of the 10DM24 Deoxyribozyme Will Lead to Advancements in Site Specifically Labeling RNAs
Carmel Assa	Chinese and Biology	Bo Liu	The Role of PKC-delta in the Regulation of RIP3 Expression in Aortic Smooth Muscle Cells
Louis Baeseman	Biology	James Keck	Effects of SSB Phosphorylation on <i>in vitro</i> Activities
Weeden Bauman	Biology	Bas Rokers	Understanding Motion and Depth Perception in Amblyopia (“Lazy Eye”)
Emily Baumann	Biochemistry	Anjon Audhya	Roles for the ESCRT Machinery and the Septin Complex in Membrane Abscission during Cytokinesis
Jenna Becker	Chemistry and Molecular Biology	Silvia Cavagnero	Physical Properties of Folded and Intrinsically Disordered Proteins as a Function of Chain Elongation
Madeline Berkvam	Zoology	Richard Lindroth	From Genes to Communities: Identifying the Genetic Components of Pathogen Damage and Community Composition in Populus
Adam Birenbaum	Statistics, Physics and Astronomy-Physics	Eric Wilcots	Galaxy Evolution from the Environment
Zachary Boor	Genetics	Sean Schoville	Testing Pleistocene Glacial Cycles as a Mechanism of Genetic Differentiation
Natalie Bowman	Communication Sciences & Disorders and Spanish	Margarita Kaushanskaya	Cognate Effects on Literacy Tasks in Bilingual Children
Matthew Boyer	Biomedical Engineering	Heidi-Lynn Ploeg	Design, Fabricate and Test a Bone Analog for Validation of Medical Image Based Analysis and Mechanical Testing of Long Bones
Sin Chan	Biochemistry	Judith Burstyn	Expression and Spectroscopic Analysis of Cobalt-Substituted DGCR8 Heme Binding Domain
Daniel Chantigian	Biochemistry	Hazel Holden	Determination of the Structure and Function of WbkC, a Formyltransferase Found in and Utilized by Brucella Abortus
Sherry Cheng	Chemistry, Mathematics and Biochemistry	M. Thomas Record Jr.	Experimental and Numerical Investigation of Small Solute Chemical Interactions
Michelle Chiu	Molecular Biology	Bikash Pattnaik	Uncovering Oxytocin Receptor’s G-Protein Coupled Receptor Mechanism
Joshua Choe	Kinesiology and Biology	Bryan Heiderscheit	Kinematic and Kinetic Asymmetries during a Vertical Jump following Anterior Cruciate Ligament Reconstruction
Thomas Chrobak	Materials Science & Engineering	Beata Tyburska-Puschel	C-AFM and XRD Studies of the Ion-Induced Defects in Self-Implanted Tungsten
Andy Chung	Biology	Michael D. Sheets	Analyzing the Repression Domain of the Bicaudal-C Protein: A Regulator of Embryonic Development and Organ Formation in Vertebrates
Barrett Clausen	Spanish and Geography	Ksenija Bilbija	Memory in a Time of Economic Crisis: Challenges Facing <i>Parque de la Memoria</i> as a Trauma Memorial in Post-Authoritarian Argentina
Danielle Day	Latin American, Caribbean & Iberian Studies and Biology	Edward Hubbard	Behavioral and Neural Measures of Multisensory Integration of Number
Xiang Deng	Computer Sciences and Computer Engineering	William Sethares	Environmental Friendly Robot, Protecting Natural Reserves against the Litter Disposal Due to the Acceleration of Tourism in Developing Countries
Nicholas Derr	Applied Math, Engineering & Physics and Astronomy-Physics	Susan Nossal and Edwin Mierkiewicz	The Effect of the Earth’s Magnetotail on Lunar Exospheric Potassium
Anna-Lisa Doebly	Genetics	Akihiro Ikeda	The Role of TMEM135 in Cellular Stress Response
Rachel Dvorak	Biochemistry	Michael Cox	Examining Charge Motifs on the Flexible N-terminus of the Ref Protein to Improve the RecA/Ref Genome Editing System
Jeffrey Ehrhardt	Chemical Engineering	Samuel Gellman	Directed Design of Beta Lactam Copolymers via Multivariate Analysis
Gabrielle Enos	Biology	Susan Thibeault	Characteristics of Radiation-Induced Changes in Cultured Human Vocal Fold Fibroblasts

<b>Award Recipient</b>	<b>Major</b>	<b>Faculty Advisor</b>	<b>Project</b>
Maria Estevez Silva	Biomedical Engineering	Randolph Ashton	Controlling Notch Signaling Activation for Astroglial Differentiation
Lucas Fass	Pharmacology & Toxicology	Manish Patankar	The Apoptotic Efficacy of Citral and Citral-Folate Conjugates for Tumor Cells
Kathryn Ficho	Communication Sciences & Disorders and Spanish	Margarita Kaushanskaya	Does Second Language Exposure Affect Information Retrieval in English-Spanish Bilinguals?
Brandon Foley	Chemical Engineering	Emmanouil Mavrikakis	A First-Principles Study of NO Reduction by H <sub>2</sub> on Pd(100) and Rh(100)
Ben Gibbs	Chemistry	Joshua M. Lang	Developing a Platform for Analyzing Proteins, Transcriptome and Genome in Melanoma Circulating Tumor Cells to Discover Novel Biomarkers
Thomas Gorman	Psychology	Christopher Shawn Green	Alleviating the Cognitive Detriments of Heavy Media Multitasking through Nature Interaction and Meditation Training
Conrad Gudmundson	Biology and Psychology	Michael Koenigs	The Neuropsychology of Self-Reflection in Psychiatric Illness
Kate Hagen	Biology and Anthropology	Tim Gomez	Regulation of TSC-mTOR-Mediated Axon Guidance by BDNF and EphrinA in Human Neurons
Brandi Hefty	Psychology	Michael Koenigs	Primary and Secondary Psychopathy and Their Underlying Impairments in Decision-Making
Victoria Heinrich	Biochemistry	Douglas Weibel	Identifying the Specific Antibacterial Interaction of DCAP with Bacterial Membranes
James Hermus	Biomedical Engineering	Charles Mistretta	Quantitative Analysis of Artifacts in 4D DSA: The Relative Contributions of Beam Hardening and Scatter to Vessel Dropout
Sora Ji	Biology	Craig S. Atwood	Elucidating the Molecular Mechanism of Dorsomorphin Action on SOD1 Mutant Caenorhabditis Elegans, a Model of Amyotrophic Lateral Sclerosis
Isabel Johnson	Biochemistry	Dave Pagliarini	Defining the Role of the Atypical Kinase, ADCK3, in Coenzyme Q Biosynthesis
Ryan Johnson	Biology	Christine Sorenson	Prevention of Retinal and Choroidal Neovascularization by Histone Deacetylase Inhibitors
Shilpa Kalluru	Biology	Richard Davidson and Cory Burghy	Brain Connectivity and the Development of Anxious Symptoms as Predicted by Prenatal Stress
Finola Kane-Grade	Psychology and Intended-Music	Seth Pollak	Attentional Control and the Development of Facial Processing
Ethan Kay	Physics, Philosophy, Mathematics and English	Joshua Calhoun	Research Notebooks, Information Overload, and the Digital Humanities
William Keener	Communication Sciences & Disorders	Ruth Litovsky	Echo Suppression and Sound Localization in 2- to 3-Year-Old Children
Donya Khadem	Political Science and Legal Studies	Ryan Owens	Are State Supreme Courts Using Their Public Information Offices Strategically?
Adam Korte	Biology	Zhen Huang	Ric-8a Regulation of Intercellular Interactions in the Developing Brain
Carla Kraft	Rehabilitation Psychology	Haley Vlach	Spacing Your Own Learning: Differences in Strategy Adoption between Preschoolers and Adults
Cody Lane	Wildlife Ecology	Benjamin Zuckerberg	The Effects of Social Dominance and Temperature on the Daily Foraging Patterns of Wintering Birds
Amy Lang	Psychology	Heather Abercrombie	Epigenetics, Early Life Stress, and Neural Signaling of Cortisol
Honghong Liao	Biochemistry	Samuel Butcher	Structural Studies of the U6 snRNP
Yihan Liao	Psychology and Intended-Nutritional Sciences	Richard A. Anderson	Phosphoinositide Regulation of ATG14 Function in Autophagy Initiation
Tyler Lieberthal	Biomedical Engineering	Weiyuan John Kao	Biomaterial-Mediated Inflammation: The Effect of Biomaterials on Monocyte Recruitment
Jiayue Liu	Biochemistry	Aseem Ansari	Analysis of Spatial Phosphorylation Marks of CTD
Zexi Liu	Electrical Engineering	Xinyu Zhang	D-Mart: A Tethering-Based Resale Market for Cellular Data
Will Lyon	Biology and Philosophy	John Kuo	The Role of the 'Human Ether-A-Go-Go Related' Potassium Channel in Glioblastoma Multiforme Cell Proliferation and Migration
Eric Madsen	Biochemistry	Sandro Mecozi	Synthesis and Characterization of the Amphiphilic Block Copolymer mPEG-2k-Decyl-OTri-PFtB
Daniel Magyar	Biochemistry	Xinyu Zhao	MBD1 Regulates Neuronal Maturation Through MicroRNA miR-182
Brontë Mansfield	English and Art History	Nancy Rose Marshall	Chasing Tail: Darwinian Theories of Evolution and Depictions of Mermaids in the Nineteenth Century
Victoria Martino	Biochemistry	Hector DeLuca	Can 2MD, a Highly Potent Analog of Vitamin 1, 25 Dihydroxyvitamin D <sub>3</sub> , Support the Immune Function of Vitamin D?
Alexandra Mechler-Hickson	Chemistry	Carol E. Lee	Rapid Evolution of Ionic Regulation following Freshwater Invasions

<b>Award Recipient</b>	<b>Major</b>	<b>Faculty Advisor</b>	<b>Project</b>
Melissa Meyer	Geological Engineering and Geology & Geophysics	Basil Tikoff	Temporal Evolution of Faulting in the Twin Sisters Ultramafic Massif of Washington State
Devon Miller	Biology	Richard Halberg	Does the Combination of Resveratrol with <i>Lactobacillus Rhamnosus</i> GG (LGG) Prevent Colitis-Induced Colon Cancer in a Preclinical Model
Kevin Miller	Genetics	Richard Peterson	Characterization of Sox9b Expression and Function in Zebrafish Neural Development
Gretchen Miron	History and Journalism	Marc Kleijwegt	Slavery and Humanity in Ancient Rome: An Analysis through Seneca
Keayra Morris	Psychology	Erin Costanzo	Body Mass Index and Recovery from Surgery for Endometrial Cancer
Joseph Mueller	Biology	Jonathan Makielski	Does the I427V-SNTA1 Mutant Lead to Increases in Late Sodium Current and Prolonged Action Potentials Associated with Long QT Syndrome?
Bill Mulligan	Biochemistry	Chad Vezina	$\beta$ -Catenin in Prostatic Vascularization and Innervation
Megan Ness	History and Anthropology	Claire Taylor	Children at Work: Children as Active Participants in Classical Athens
Jennifer Nguyen	Statistics and Biochemistry	Jill Wildonger	Repressing Gene Function in <i>Drosophila</i> Using CRISPRi
Mengyao Niu	Biochemistry	Allyson Bennett	Potential Mechanisms for Long-Term Effects of Early Life Stress: An Investigation of Specific Aspects of Immune Regulation and Response
Stephanie O'leary	Biomedical Engineering	Joseph Towles	Alternative Approaches to Surgical Restoration of Key Pinch following Spinal Cord Injury
Cecilia Olin	Psychology	Patricia Devine	Concern for the Self versus Others in Interracial Interactions
Allison Perlin	Political Science	Scott Straus	Genocide Prevention through Best Practice Mental Healthcare
Ryan Prestil	Biology	Krishanu Saha	Investigating the Effects of Repeated Differentiation and Reprogramming on Transgenic Human Pluripotent Stem Cell Clones
Nicole Rausch	Human Development & Family Studies and Psychology	Judith Harackiewicz	Looking into the Future to Promote Student Interest and Performance: How Far Should We Look?
Nicholas Rettko	Biochemistry	Samuel H. Gellman	Cell-Based Assay and Co-Crystallization of $\alpha/\beta$ Peptide Foldamers Targeting Tumor Necrosis Factor Alpha Signaling
Dustin Richter	Biology	Ei Terasawa-Grilley	The Role of Neurokinin B and the KNDy Neuronal Network in the Onset of Puberty in the Female Rhesus Monkey
Brian Robichaud	Biology	Barry Ganetzky	Screen for Genetic Factors Causing Differences in Neural Radio-Sensitivity in Adolescent <i>Drosophila Melanogaster</i>
Claudia Roen	Biology	Eric Shusta	Mutations of Green Fluorescent Protein (GFP) to Produce Binding Variants with Cyan and Yellow Fluorescence
Matthew Russell	Biology and Spanish	Warren Heideman	Rescue of TCDD-Mediated Cardiotoxicity in Zebrafish Embryos
Alexa Sampson	Civil Engineering	Chin-Hsien Wu	Oxythermal Stress of Cisco under Changing Climate in Wisconsin
Trevor Schell	Spanish and Biology	Helen Blackwell	Identification of Residues that Govern Ligand Recognition in LuxR Homologs
Bianca Schroeder	Communication Sciences & Disorders and Sociology	Jan Edwards	The Relationship between Lexical-Phonetic and Socio-Phonetic Language Development
Jessica Schwartz	Biology, Psychology, Zoology and Latin American, Caribbean & Iberian Studies	Erin Costanzo	Predictors of Posttraumatic Growth among Hematopoietic Stem Cell Transplant Recipients
Jocelyn Seppala	Biology and History	David Wassarman	Studies of Omega-3 Fatty Acids as a Treatment for Traumatic Brain Injury
Sohil Shah	Chemistry, Mathematics and Economics	Robert Hamers	Chemical Assembly of Alkyl Chains onto Nanodiamond
Minaliza Shahlapour	Medical Microbiology & Immunology	Rodney Welch	Evaluation of the Dependence of <i>Escherichia Coli</i> Hemolysin on Lipopolysaccharide for Hemolysis and Cytotoxicity
Amber Smits	Human Development & Family Studies and Psychology	Lauren Papp	Investigating Daily Sources of Relationship Conflict Among Young Adult Dating Couples
Aaron Stemo	Physics, Mathematics and Astronomy-Physics	Cary Forest	Creating a Solar Flare in the Lab
Michael Stone	Chemical Engineering	Song Jin	Nanostructured Cobalt Pyrite (CoS <sub>2</sub> ) as a High-Performance Electrocatalyst for the Hydrogen Evolution Reaction
Lauren Stopfer	Biomedical Engineering	Pamela Kreeger	Characterization of Co-Culture Signaling Between Ovarian Cancer Cells and Tumor Associated Macrophages
Wendy Sun	Biology	Pelin Cengiz	Sexually Differential Response of Hippocampal Neurons to Ischemia: A Role for Estrogen Receptor Alpha in TrkB Phosphorylation
Joanna Swinarska	Biology and Spanish	Seth Pollak	Effects of Adult Life Stress on Neurocognitive Function
Zhi Tan	Computer Sciences	Bilge Mutlu	Reinventing the Classroom Experience with Wearable Devices

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Tiffany Thurmes	Biology	James Keck	Interaction of PriA and SSB in DNA Replication Restart
Meghan Turner	Biochemistry	James Weisshaar	Mechanism of the Antimicrobial Peptide Indolicidin on the Cytoplasmic Membrane of <i>E. Coli</i> via Quantitative Fluorescence Microscopy
Jeanet Ugalde	Biology	Corinna Burger	Metabotropic Glutamate Receptor-Homer1 Interaction and its Role in Acquisition or Consolidation of Memories.
Ryan Valk	Biology	Ronald Kalil	Transplantation of hESC-Derived Neural Progenitor Cells to Improve Functional Motor Performance in a Rat Model of Traumatic Brain Injury
Andrew Vamos	Biomedical Engineering	Jack J. Jiang	Investigating Capillary Fluid Flow within the Vocal Fold Using Finite Element Analysis
Andrew Vogel	Microbiology	Richard Gourse	Determining the Mechanism of Colocalization of Ribosomal RNA Operons in <i>E. Coli</i>
Katherine Waldeck	Genetics	Barry Ganetzky	Characterizing Dopaminergic Neuron Loss in <i>Drosophila</i> Scarlet Mutants
Duangkamon Wattanasak	Music: Performance	Jeanne Swack	Bringing Light to Forgotten Repertoires of the German Baroque: From Manuscripts to a Scholarly Edition
Tasia Williams	History and Anthropology	William Aylward	Nestor's Cup: The Food of the Ancient Trojans
Alexis Wills	Spanish	Ksenija Bilbija	Places and Faces of Memory: A Study of Memory Museums in Peru
Matthew Wleklinski	Pharmacology & Toxicology	Aseem Ansari	Application of a Zinc Finger Library to Find Regulators of Pluripotency
Matthew Wolf	Biochemistry and Spanish	Mario Otto	Neuroblastoma Tumor Cell Clearance after CLR1404 Treatment
Tianyao Wu	Chemistry, Physics, Mathematics and Astronomy-Physics	Shannon S. Stahl	Regioselective Copper-Catalyzed C-H Aerobic Oxidation of Arenes
Austin Yantes	Biological Aspects of Conservation and Spanish	David Bart	The Importance of Plowing History, Dispersal, and Stress in Determining Rare-Species Occurrence in Imperiled Calcareous Fens
Abigail Zellner	Biology and Human Development & Family Studies	Edward Hubbard	Behavioral and Neural Investigations of the Links between Symbolic Number Representations

## 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 \$500–\$1,000 to their faculty/staff advisors to work in collaboration on research projects relating to environmental issues.

Award Recipient	Major	Faculty Advisor	Project
Ian Atkins	Biological Systems Engineering	Christopher Choi	Sustainable Energy Balances for Wisconsin's Geothermal Boreholes
Kaitlin Jasper	Spanish	Katherine McMahon	The Impact of Nitrogen Supplied from Amino Acids and Polyamines on Bacterial Community Composition in a Eutrophic Lake
Maia Persche	Wildlife Ecology and Horticulture	Anna Pidgeon	Quantifying Physiological Stress of Nesting Acadian Flycatchers ( <i>Empidonax Virens</i> ) in Response to Recreational Trails and Trail Use
Thejas Wesley	Intended: Chemical Engineering	James A. Dumesic	Effects of Biogenic Impurities on Heterogeneous Catalysts

## 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
Chin Leng Cheng	Biochemistry	Ronald Raines	Kinetic, Structural and Mechanistic Analysis of the Noncanonical RNA Ligase RtcB
James Cozart	Economics	Amit Gandhi	An Empirical Analysis of Incumbent Responses to Southwest Airlines Entry
Erika Dickerson	English Education	Christopher Walker	Cult of Blk Bodies
Maria Estevez Silva	Biomedical Engineering	Randolph Ashton	Defined Human Pluripotent Stem Cell Culture Enables Highly Efficient Neuroepithelium Derivation without Small Molecule Inhibitors
Stephanie Fricke	Molecular Biology	Nathan Sherer	Cytoplasmic Interactions of the Antiviral Protein APOBEC3G with HIV-1: A Visual Approach
Kristin Gulotta	English	Ron Wallace	Dime Museum
Crystal Hanson	Psychology	Paula Niedenthal	Viewing Emotional Facial Expressions Influences Sensory Judgments

<b>Award Recipient</b>	<b>Major</b>	<b>Faculty Advisor</b>	<b>Project</b>
James Hermus	Biomedical Engineering	Charles Mistretta	Quantitative Analysis of Artifacts in 4D DSA: The Relative Contributions of Beam Hardening and Scatter to Vessel Dropout Behind Highly Attenuating Structures
Colin Higgins	History, Environmental Studies and Geography	Neil Kodesh	Dilemmas of Global Health: Scientific Knowledge and the Politics of Malaria Control in East Africa (1918–1950)
Alexandra Jagodzinski	English and Art History	Barbara Buenger	Pornography and Performance Art: Exploiting the Erotic through Vanessa Beecroft, Carolee Schneemann, and Karen Finley
Andrew Ma	Mathematics	Andrej Zlatoš	Existence of Transition Fronts for Inhomogeneous Reaction-Diffusion Equations of an Ignition Region around a Central KPP Region
Sara Marquez	English	Amaud Johnson	Folk (A Poetry Collection)
Jenna Mertz	English, Spanish and Environmental Studies	Ron Wallace	Lake Tilson
Thiahera Nurse	English	Amaud Johnson	Blk(Girl).Like Me.
Nadia Orfali	Psychology	Richard Davidson	Neural Correlates of Emotion Detection and Contagion: Precursors for Social-Emotional Processing?
Alexandra Port	Art and French	Lynda Barry	Electricity in a Tub of Salt Water
Hannah Ripp-Dieter	Theatre & Drama	Norma Saldivar	Housebound: An Original One Act Musical
Joshua Shutter	Chemistry	Robert McMahon	Rotational Spectroscopy of Pyridazine and Its Isotopomers from 235 – 360 GHz: Equilibrium Structure and Vibrational Satellites
Sarah Sirios	English	Ron Wallace	Flowering Crab
Daria Tennikova	Music: Performance	Laura Schwendinger	Poema for Saxophone and Symphony Orchestra

### **Honorable Mention**

Andrew Bulovsky	Communication Arts and Political Science	David Canon	Dissent and Discipline: Strategies for Coalition Management in the United States Congress
Benjamin Doherty	Psychology	Ozioma Okonkwo	Amyloid Burden, Cortical Thickness, and Cognitive Function in the Wisconsin Registry for Alzheimer's Prevention
Liam Kane-Grade	English, Classics and Journalism	Ron Kuka	Top Forty and Other Stories
Stephanie Loo	English and Psychology	Ron Wallace	For Your Birdhouses (A Short Story Collection)
Benjamin Pauley	Philosophy and Political Science	Richard Avramenko	Remembering Being: Biotechnology and the Meaningful Life

## **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 a composite of superior academic achievement, community service and leadership in extra and co-curricular activities, financial self-support, and both prepared and extemporaneous oral expression.

<b>Award Recipient</b>	<b>Major(s)</b>
Drew Birrenkott	Biochemistry, Biomedical Engineering and Political Science
Esther Kingfisher	Classical Humanities, Classics and Italian
<b>Honorable Mention</b>	
Claudia Goodsett	Biology and Psychology
Joannah Lawrence	Anthropology
Joseph Meeker	Economics and Philosophy
Cody Ostenson	English

## NATIONAL SCHOLARSHIPS

Recipient	Major(s)	Award
Brontë Mansfield	Art History and English	Beinecke Scholarship
Anna-Lisa Doebley	Genetics	Goldwater Scholarship
Rachel Dvorak	Biochemistry	Goldwater Scholarship
Geoffrey McConohy	Engineering Physics	Goldwater Scholarship
Tong Wang	Chemistry	Goldwater Scholarship
Donya Khadem	Legal Studies and Political Science	Truman Scholarship, Finalist
Allison Perlin	Political Science	Truman Scholarship, Finalist
Colin Higgins	Environmental Studies, Geography and History	Udall Scholarship
Joshuah Shutter	Chemistry	Churchill Scholarship
Andrew Bulovsky	Communication Arts and Political Science	Marshall Scholarship
Drew Birrenkott	Biochemistry, Biomedical Engineering and Political Science	Rhodes Scholarship

**About the scholarships:** The Beinecke Scholarship provides \$34,000 to college juniors for graduate study in the arts, humanities or social sciences. 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 students who plan a career in public service. The Udall Scholarship provides \$5,000 for undergraduate study to students with great potential for, and commitment to, a career related to the environment. The Churchill Scholarship funds one year of post-baccalaureate study in mathematics, the sciences or engineering at Cambridge University. The Marshall Scholarship provides provides tuition, room, board and stipend for completion of a graduate degree at any university in the United Kingdom. The Rhodes Scholarship provides tuition, room, board and stipend for two years of study at the University of Oxford.



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