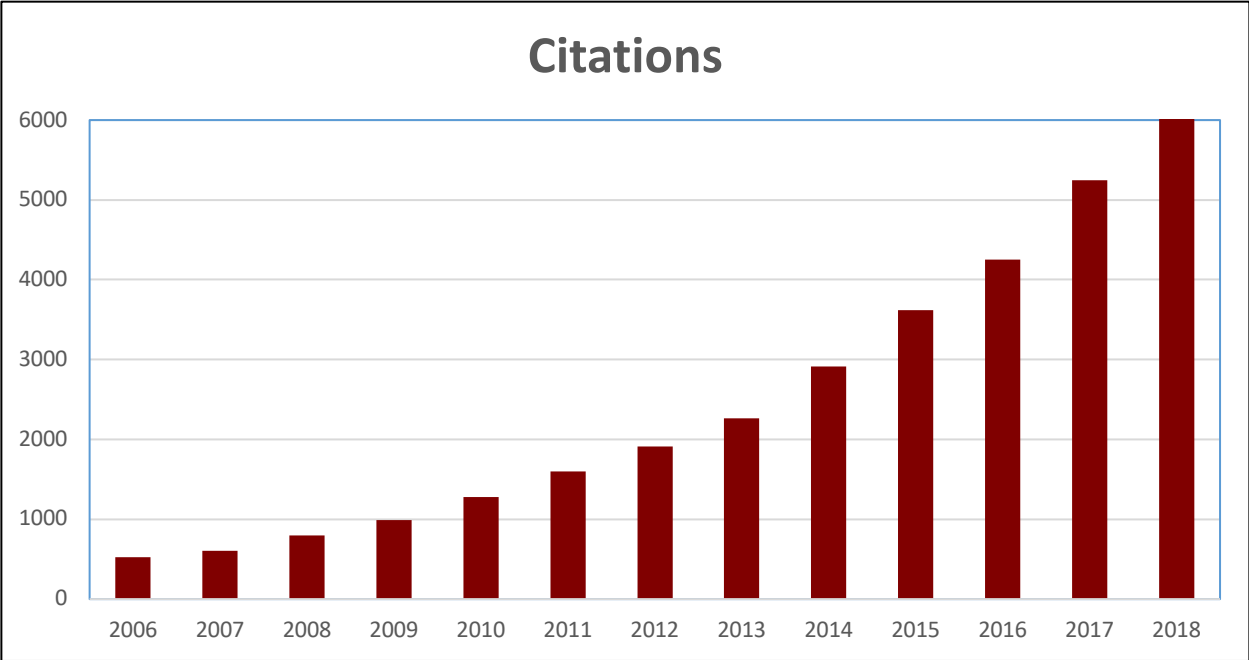
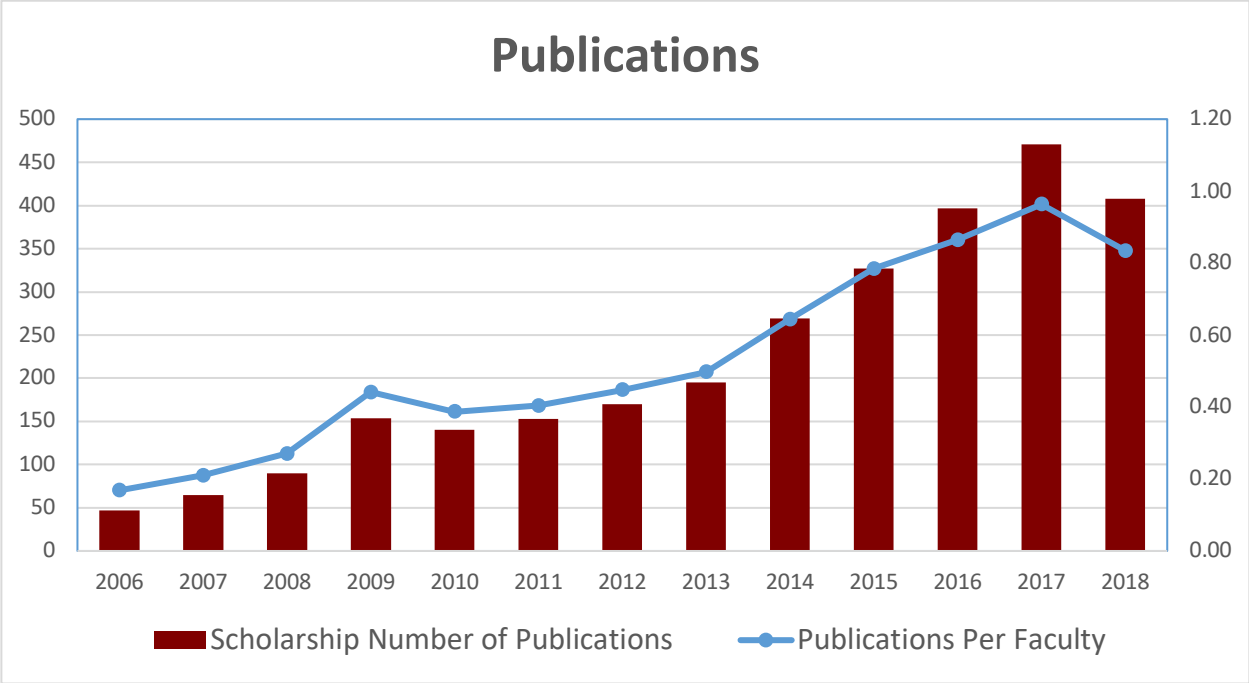




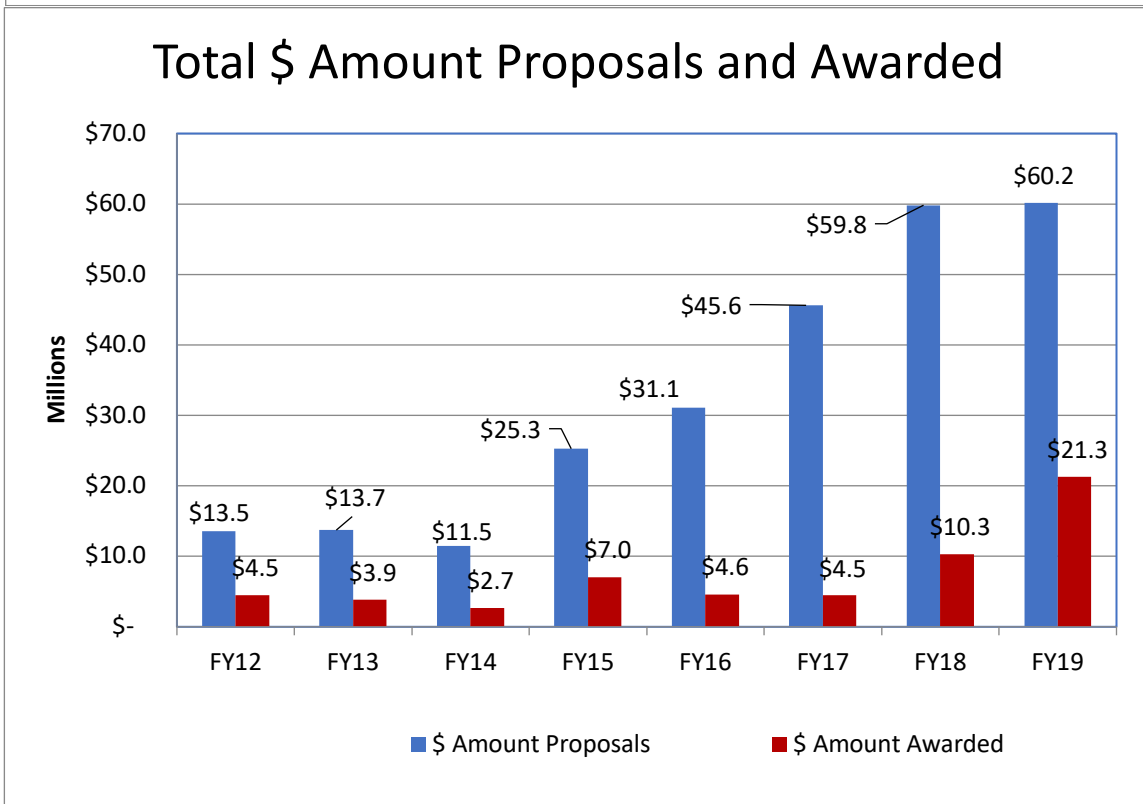
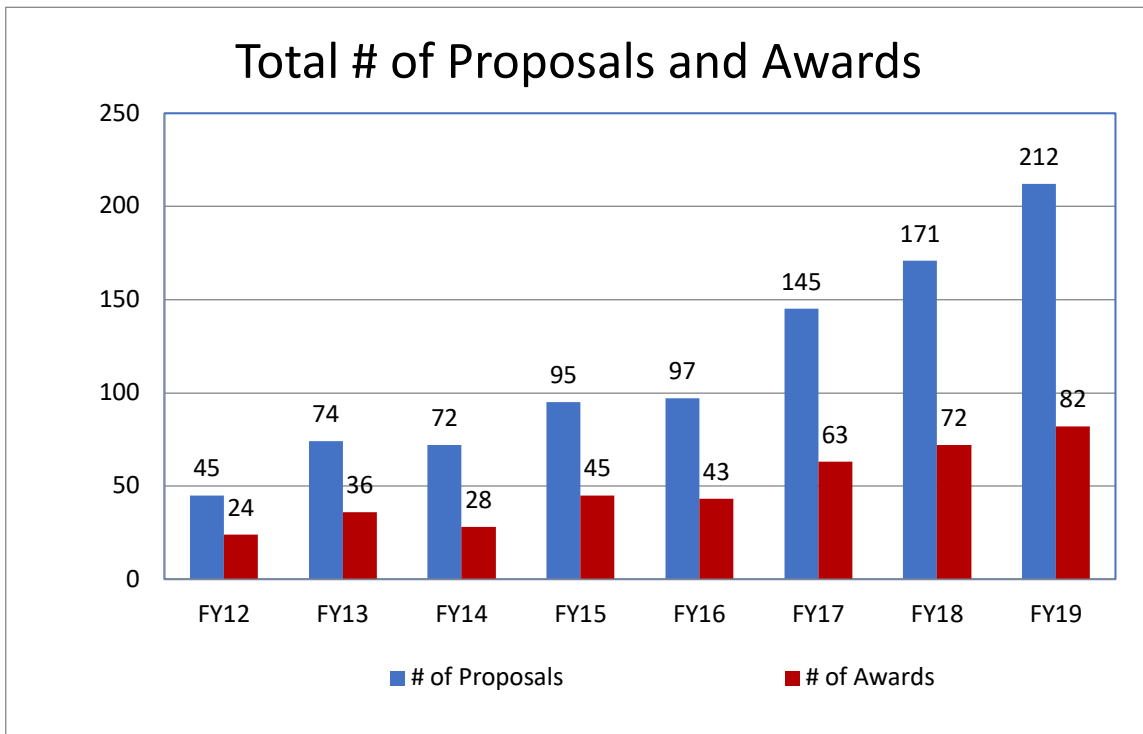
2018 – 2019

*Research and Scholarship*



Source: Web of Science

## 2018-2019 By the Numbers

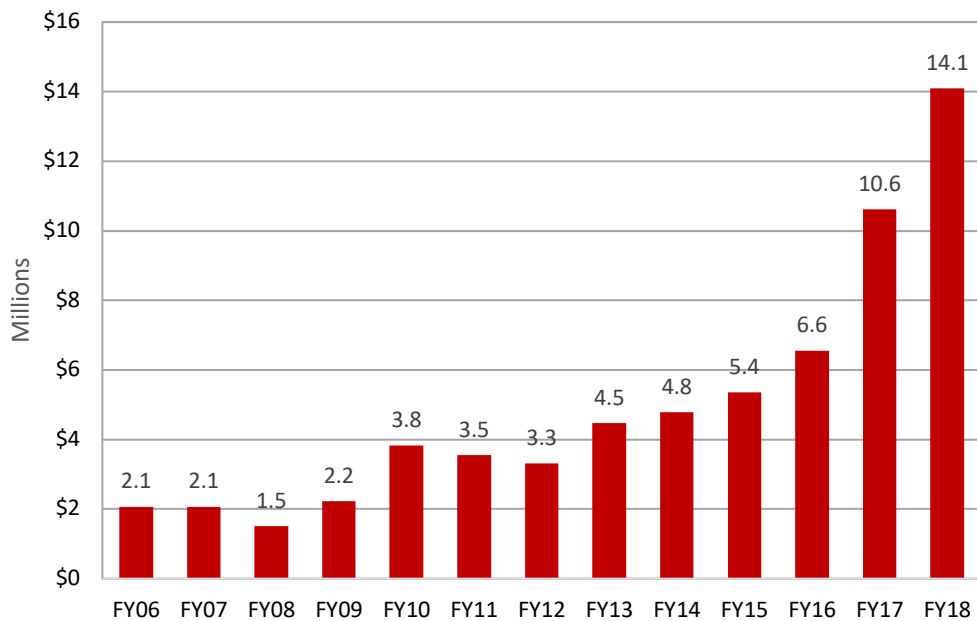


## 2018-2019 By the Numbers

### Awards (Grants and Contracts)

Unit	Award \$
Argyros School of Business	\$ 3,737,275
<i>Economic Science Institute</i>	\$ 3,737,275
Attallah College of Education	\$ 21,047
<i>Thompson Policy Institute</i>	\$ 17,697
Crean College of Health and Behavioral Sciences	\$ 7,392,066
<i>Brain Institute</i>	\$ 6,928,276
Fowler School of Law	\$ 1,693,752
Schmid College of Science and Technology	\$ 3,299,163
<i>Institute for Quantum Studies</i>	\$ 1,094,716
<i>Center of Excellence in Earth Systems Modeling &amp; Observations</i>	\$ 363,532
School of Communication	\$ 1,240,246
Dodge College	\$ 900,000
Wilkinson College of Arts, Humanities, and Social Sciences	\$ 689,485
Provost Office	\$ 50,000
School of Pharmacy	\$ 2,262,719
<b>TOTAL AWARDS</b>	<b>\$ 21,285,753</b>

### Research Expenditures



## Faculty Proposals Submitted

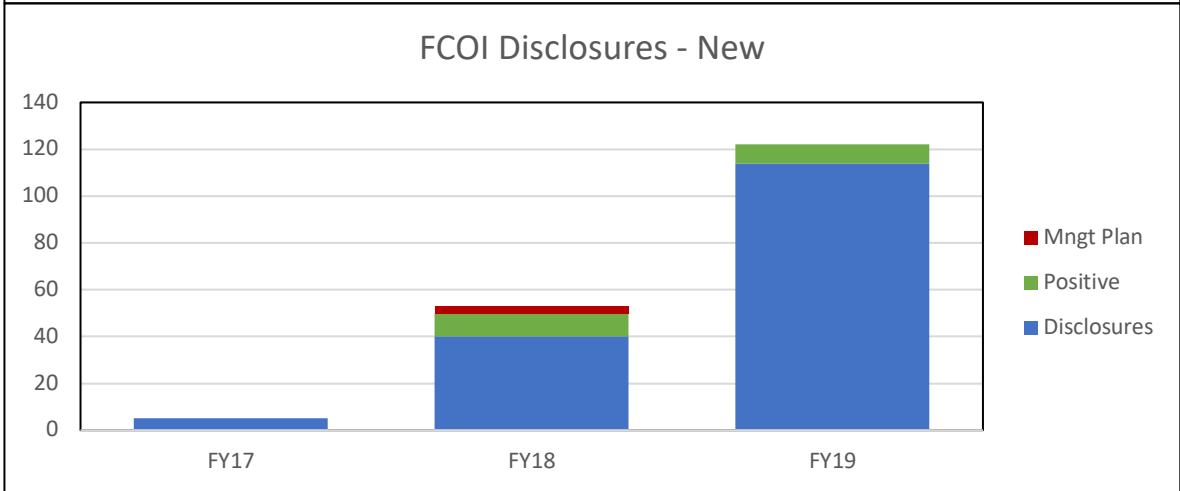
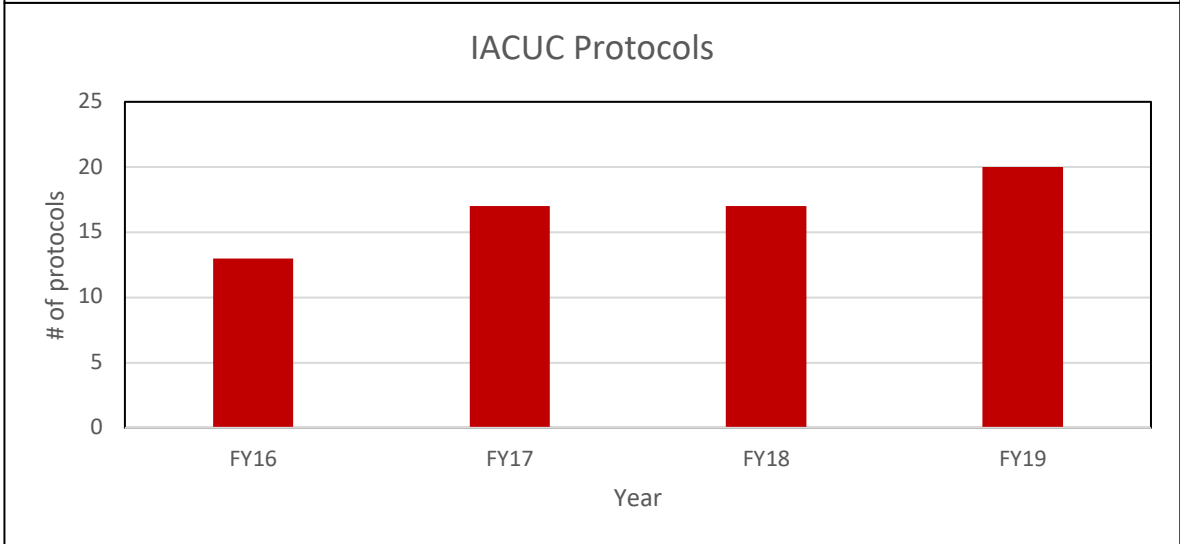
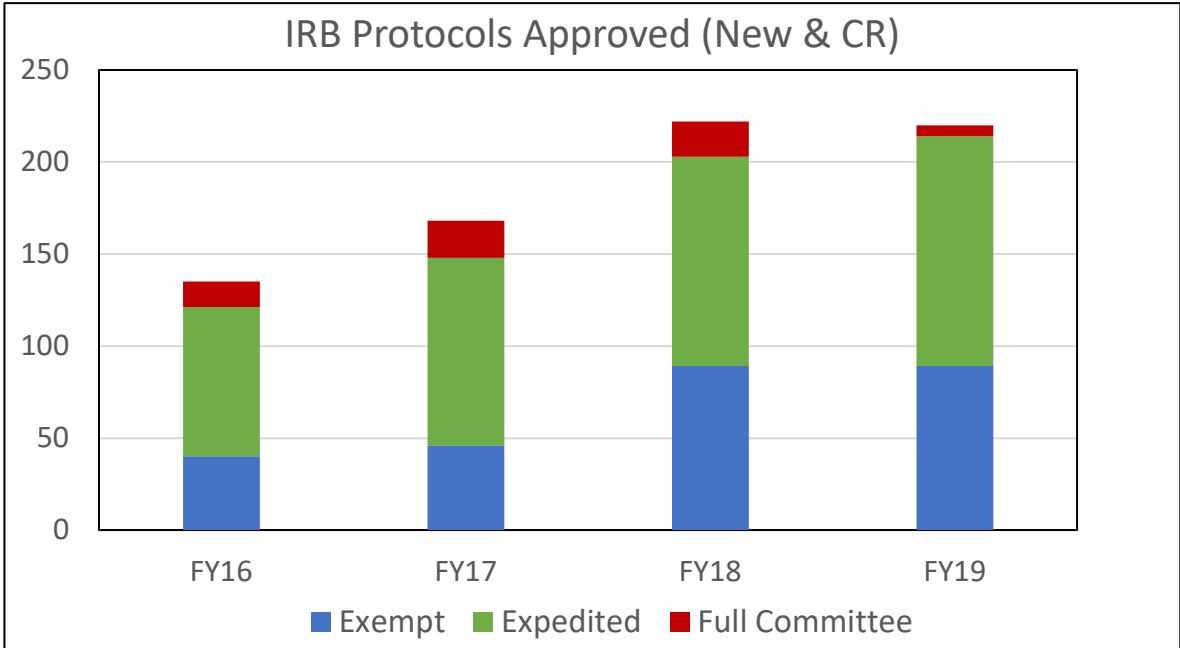
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FY	# of Proposals	Dollars Requested	# of Faculty	Federal	Foundation/Nonprofit	State/Local	Industry/Other	NSF	NIH	NEA/NEH	0-100K	100K-500K	500K-1M	>1M
2007	31	\$ 7,303,915.00	20	14	5	2	8	8	1	1	15	7	1	2
2008	24	\$ 6,268,126.00	17	10	7	5	2	4	0	0	9	11	2	1
2009	73	\$ 29,398,029.00	40	45	21	2	5	17	4	3	43	18	6	5
2010	64	\$ 24,365,895.00	42	44	13	4	3	16	2	1	33	19	8	3
2011	51	\$ 8,872,575.00	34	33	9	3	6	17	6	1	32	13	3	0
2012	50	\$ 13,522,513.00	40	28	1	4	2	11	3	3	21	21	3	2
2013	81	\$ 13,724,663.00	59	46	27	2	6	13	7	8	51	22	4	2
2014	74	\$ 11,508,757.00	46	45	22	3	2	11	12	8	41	27	4	0
2015	97	\$ 25,026,989.00	60	58	31	0	5	12	12	6	51	31	8	5
2016	99	\$ 31,126,813.00	63	49	37	1	8	10	15	4	50	34	8	5
2017	147	\$ 36,248,314.00	79	74	51	1	14	16	27	3	83	37	12	12
2018	169	\$ 59,834,653.00	96	N/A	N/A	N/A	N/A	24	37	3	56	71	15	12
2019	212	\$ 60,236,223.00	112	80	68	11	50	19	16	4	178	58	14	17

## Faculty Awards Granted

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FY	# of Awards	Dollars Awarded	# of Faculty	Federal	Foundation/Nonprofit	State/Local	Industry/Other	NSF	NIH	NEA/NEH	0-100K	100K-500K	500K-1M	>1M
2007	12	\$ 1,365,036	8	5	1	1	5	4	0	1	8	3	0	0
2008	14	\$ 2,148,587	11	6	4	3	1	3	0	0	8	5	1	0
2009	33	\$ 3,398,736	18	16	12	1	4	7	0	1	26	7	0	0
2010	21	\$ 1,736,686	18	12	5	2	2	3	0	0	17	4	0	0
2011	20	\$ 2,942,724	16	9	4	3	3	4	0	0	17	3	0	0
2012	24	\$ 4,473,745	24	11	10	3	0	2	0	0	13	11	2	0
2013	38	\$ 3,881,754	32	17	15	2	3	4	2	3	28	10	1	0
2014	22	\$ 2,709,559	17	12	11	2	1	2	5	0	20	7	0	0
2015	37	\$ 7,026,764	30	17	17	2	2	4	1	2	28	10	1	1
2016	28	\$ 4,661,484	28	10	16	1	4	1	3	0	25	7	1	0
2017	55	\$ 5,693,093	35	17	23	3	9	4	7	0	42	12	1	0
2018	71	\$ 10,306,350	45	35	21	5	12	4	10	0	49	20	2	1
2019	81	\$ 21,285,754	56	32	24	6	18	5	9	0	46	27	2	5



Fiscal Year 2019

FISCAL YEAR 18-19 AWARDS

**Argyros School of Business and Economics  
Economic Science Institute**

**Hillard Kaplan**

National Institutes of Health

\$ 411,654

*Brain Atrophy, Cognitive Impairment and Alzheimer's in Low CVD-Risk Population*

**Hillard Kaplan**

National Institutes of Health

\$2,902,118

*Brain Atrophy, Cognitive Impairment and Alzheimer's in Low CVD-Risk Population*

**David Porter**

IFREE

\$25,000

*Visiting Students*

**Jared Rubin**

IFREE

\$325,346

*The Third RES Initiative: Making the Economic Study of Religion and Religious Markets a Field of the Future*

**Bart Wilson**

IFREE

\$12,554

*2019 Summer High School Workshop and 2019 Summer Scholars Program*

**Bart Wilson**

Thomas W. Smith Foundation

\$37,661

*Visiting Students*

**Abel Winn**

IFREE

\$22,942

*24th Annual Graduate Student Workshop in Experimental Economics*

## **Attallah College of Educational Studies**

### **Noah Golden**

National Council of Teachers of English

\$2,500

*Learning from/with Adolescent Scholars: Supporting Self Authoring Through (Re)positioning Literacies*

### **Michelle Samura**

Association of American Colleges and Universities

\$850

## **Thompson Policy Institute**

### **Don Cardinal**

Regional Center of Orange County

\$1,273

*Educational Expertise to Regional Center of Orange County and Consult with School Districts*

### **Don Cardinal**

Regional Center of Orange County

\$16,424

*Educational Expertise to Regional Center of Orange County and Consult with School Districts*

## **Crean College of Health and Behavioral Sciences**

### **Julia Boehm**

American Heart Association

\$126,120

*Psychosocial Resources in Childhood that Protect Against Cardiovascular Risk in Adulthood: The 1958 Birth Cohort Study*

### **Susan Duff**

National Institute on Disability, Independent Living, and Rehabilitation Research -  
Thomas Jefferson University

\$10,412

*Spinal Cord Injury Model Systems Program: Regional Spinal Cord Injury Center of the Delaware Valley*

### **Susan Duff**

National Institutes of Health - University of Alabama



\$6,737

*Priming with tDCS: Expanding the Window of Recovery in Chronic Stroke*

**Laura Glynn**

National Institutes of Health – UCI

\$95,066

*Fragmented Early Life Environment and Emotional/Cognitive Vulnerabilities*

**Marybeth Grant-Beuttler**

J.F. Shea Therapeutics

\$5,000

*Using the Pedi-Cat to Highlight Improvements in Functional Performance Following Hippotherapy*

**Tara Gruenewald**

National Institutes of Health - USC

\$36,255

*Alzheimer's Disease & Related Dementias: Geography, Environments, and Mechanisms*

**Judy Montgomery**

California Scottish Rite Foundation

\$54,038

*Scottish Rite Childhood Language Center*

**Joanne Smith**

National Institutes of Health

\$130,162

*The Influence of Brain Organization and Postural Behavior on Progression of Back Pain Symptoms in Young Adults*

**Brain Institute**

**Uri Maoz**

John Templeton Foundation

\$5,344,062

*The Role of Consciousness in Decision Making*

**Uri Maoz**

The John E. Fetzer Institute

\$1,560,214

*The Role of Consciousness in Decision Making*

**Uri Maoz**

University of California, Los Angeles

\$24,000  
*Purchasing Agreement #1520 P VC586*

## **Dodge College**

**Peter Weitzner**  
The City of Orange  
\$900,000  
*PEG Channel Agreement*

## **Fowler School of Law**

**Tamara Alexander**  
County of Riverside  
\$75,509  
*DRPA Riverside*

**Thomas Bell**  
Reflector Network LLC  
\$59,823  
*Alethia Systems*

**Marisa Cianciarulo**  
County of Riverside  
\$1,069,510  
*Riverside Juvenile Hall Conflict Resolution Program*

**Justin Cruz**  
Law School Admission Council  
\$100,000  
*DiscoveryLaw.org PLUS Program*

**Richard Redding**  
Charles Koch Foundation  
\$148,000  
*Fostering a "Republic of Science" for the Next Generation: An Educational and Mentoring Program for Young*

**Wendy Seiden**  
Orange County Community Foundation  
\$60,000  
*Aitken Family Protection Clinic*

**Wendy Seiden**  
The State Bar of California

\$44,100  
*IOLTA Fund Grant*

**Wendy Seiden**  
The State Bar of California  
\$36,810  
*Equal Access Fund*

**George Willis**  
IRS  
\$25,000

**George Willis**  
IRS  
\$75,000

## **Schmid College of Science**

**Hagop Atamian**  
National Institute of Food and Agriculture  
\$200,000  
*Seed Frant on Developing Chia Varieties with Desirable Agronomic Characteristics for Improved Productivity*

**Hagop Atamian**  
National Science Foundation  
\$292,217  
*RUI: Diurnal and Circadian Regulation of the Plant Microbiome*

**Justin Dressel**  
Army Research Office- UC Berkeley  
\$54,637  
*Implementation of Novel Benchmarking and Error Management Protocols in Planar Transmon Processors*

**Doug Fudge**  
Kimberly-Clark Corporation  
\$161,327  
Hagfish Slime Storage, Deployment, and Structure

**Doug Fudge**  
National Science Foundation  
\$420,079  
Collaborative: RUI: Biogenesis and Evolution of Hagfish Slime and Slime Glands

**Doug Fudge**

Alion Science and Technology  
\$40,900

**Jennifer Funk**

U.S. Department of Agriculture  
\$480,000  
Trait-Based Approaches to Ecosystem Management

**Melissa Goldsmith**

Beta Beta Beta Biological Society  
\$500  
*DNA Methylation-Derived Neutrophil-to-Lymphocyte Ratio and Relapse of Pediatric Acute Lymphoblastic Leukemia*

**Rosalee Hellberg**

Sinclair Television  
\$9,094  
*Testing Dog Food*

**Andrew Lyon**

National Institutes of Health  
\$110,388  
*Platelet-Like Particles for Augmenting Hemostasis*

**John Miklavcic**

Southern California Institute of Food Technology  
\$21,965  
*For NanoSight NS300 and NTA Software Package to Measure Exosomes in Dairy Products on a Nanoscale Level*

**Chelsea Parlett**

National Science Foundation  
\$46,000

**Anu Prakash**

RawNature5 Corporation  
\$1,780  
*Koia Formulation Testing*

**Anu Prakash**

Pulmuone Food USA  
\$2,028  
*Pulmuone Project*

## **Institute for Quantum Studies**

### **Armen Gulian**

Office of Naval Research

\$667,717

*Advanced Materials Photonic Diagnostics*

### **Armen Gulian**

Office of Naval Research

\$190,000

*Theoretical and Experimental Exploration of Quantum Effects  
in Superconducting Electronics*

### **Armen Gulian**

Office of Naval Research

\$60,000

*Simulation and Experimental Realization of Vector-Potential Sensors  
by Quasiloca Superconducting Objects*

### **Armen Gulian**

Office of Naval Research

\$75,000

*Simulation and Experimental Realization of Vector-Potential Sensors  
by Quasiloca Superconducting Objects*

### **Armen Gulian**

Office of Naval Research

\$15,000

*Systematic Search for Very High-Temperature Superconductivity  
via Nonequilibrium Phase Diagram Routes*

### **Armen Gulian**

Office of Naval Research

\$86,999

*Systematic Search for Very High-Temp Superconductivity in Carbon-  
Related Compounds, Including Materials via Nonequilibrium Phase Diagram Routes*

## **Center of Excellence in Earth Systems Modeling & Observations**

### **Emmanuel Dinnat**

NASA

\$173,532

*Improvement of Sea Surface Salinity Satellite Retrievals*

### **Emmanuel Dinnat**

NASA

\$190,000

*Improvement of Sea Surface Salinity Satellite Retrievals*

## **School of Communication**

### **Rion Dooley**

National Science Foundation

\$1,240,246

*Collaborative Research: SS2-SSI: The Agave Platform: An Open Science-As-A-Service Cloud Platform for Reproducible Science*

## **School of Pharmacy**

### **Albert Bach**

American Association of Colleges of Pharmacy

\$3,860

*Using Actors or Peers as Standardized Patients (SP) in Pharmacy Practice Simulations have an Effect on Student Objective Structured Clinical Exam (OSCE) Performances*

### **Sherif Eishahawi**

American Association of Colleges of Pharmacy

\$10,000

*Generation of Lipopeptide Analogs Using Biocatalytic Methods*

### **Ronald Jordan**

Prescribe Wellness

\$250,000

### **Innokentiy Maslennikov**

Relay Therapeutics

\$50,000

*PSA: Characterization of Ligands, Proteins, Lipids and their Mixtures Based on NMR, Mass Spec and Other Tools.*

### **Hamidreza Montazeri-Aliabadi**

AJK BioPharmaceutical LLC

\$116,355

*Design and Evaluation of Peptide-Based Platforms for Oligonucleotide Delivery*

### **Hamidreza Montazeri-Aliabadi**

Beta Beta Beta Biological Society

\$500

*The Importance of Safer Toothpaste*

**Rennolds Ostrom**

Thomas Jefferson University

\$34,500

*G Protein-Coupled Receptor Regulation in Airway Myocytes*

**Keykavous Parang**

AJK BioPharmaceutical LLC

\$116,955

**Simin Rahighi**

Proteogenomics Resea

\$19,200

**Simin Rahighi**

Amberstone Biosciences

\$15,000

**Ajay Sharma**

Akrivista LLC

\$15,700

**Ajay Sharma**

National Institutes of Health

\$410,258

*Tear Film-Mucous Layer Dysfunction and Pathogenesis of Diabetes-Associated Dry Eye Disease*

**Rakesh Tiwari**

Brown University

\$10,000

*Scaled Up Synthesis of CN2097*

**Jennifer Totonchy**

National Institutes of Health

\$328,351

*Identifying Susceptibility Factors for KSHV Infection in Human Tonsil*

**Jennifer Totonchy**

National Cancer Institute

\$249,000

*Factors Influencing KSHV Infection and Spread within the Oral Cavity*

**Siu-Fun Wong**

Amgen

\$165,000  
*Educational Fellowship Agreement*

**Sun Yang**

National Institutes of Health  
\$112,331

*The Development of Novel Mechanistically-based APE/Ref-1 Redox Inhibitors*

**Miao Zhang**

National Institutes of Health  
\$168,959

*Development of SK Channel Modulators as Therapeutic Agents for Ataxia*

**Miao Zhang**

National Institutes of Health  
\$186,750

*Development of SK Channel Modulators as Therapeutic Agents for Ataxia*

**Wilkinson College of Arts, Humanities, and Social Sciences**

**Chris Bader**

Pennsylvania State University  
\$136,073

*Improving the Measurement of Religion Across the Social Sciences*

**Michael Pace**

Boston College  
\$208,722

*The Philosophy, Theology, and Psychology of Trust in God*

**Pilar Valenzuela**

National Science Foundation  
\$344,690

*Linguistic and Computational Approaches in Collaboration with the Indigenous Communities in the Documentation of the Amawaka Language (AMC)*