

2013 UURAF Award Winners

Congratulations to the 2013 UURAF Award Winners. Approximately 545 undergraduate students participated in this year's Forum. First Place Award recipients receive \$100 each. Grand Prize recipients receive \$500 each.

Grand Prize Winners:

- Humanities, Social Sciences, & Communication Arts & Sciences: Susie Sonnenschein for SEXUAL DIMORPHISM IN THE PREFRONTAL CORTEX DURING PUBERTY IN RATS. Faculty Mentor: Cheryl Sisk
- Science, Mathematics, & Engineering: Ari Walter for HISTOLOGICAL AND MOLECULAR PROFILE OF TFAP2A KNOCKOUT EMBRYOS REVEAL CRITICAL FUNCTION IN SKIN DEVELOPMENT. Faculty Mentor: Brian Schutte

Category	Туре	Student(s)	Project
Graphic Design,	Poster	Jill Zelenski	INTERACTIVE WATER CYCLE
Section 1			
Graphic Design,	Poster	Savanna Boutwell	LIFE & EARTH SCIENCES
Section 2			
Humanities & Performing Arts,	Oral	Milan Griffes	GREEK MUSICAL NOTATION
Section 1			
Humanities & Performing Arts,	Oral	Craig Pearson,	NEUROSCIENCE OF READING: FMRI SHOWS HEIGHTENED
Section 2		Truman Silvasi	BRAIN ACTIVATION IN CLOSE READING OF JANE AUSTEN
Humanities & Performing Arts,	Poster	Peter Martino	DOLLHOUSE
Section 1			
Humanities & Performing Arts,	Poster	Christine Scales	PARTICIPATORY MEMORY
Section 2			
Linguistics, Languages & Speech,	Poster	Bridget Molnar,	TEMPORAL CHRACTERISTICS OF SPEECH TO CHILDREN
Section 1		Sara Krebs,	WITH COCHLEAR IMPLANTS
		Kathleen Moon,	
		Christina Nguyen	
Linguistics, Languages & Speech,	Poster	John Sheets, Kyle	SLEEPING-BAG AS A BAG FOR SLEEPING OR A BAG THAT IS
Section 2		Latack	SLEEPING? HOW NATIVE AND NON-NATIVE SPEAKERS USE
			PROSODY TO DISAMBIGUATE COMPOUNDS AND
			PHRASES

ARTS & LETTERS

Linguistics, Languages & Speech,	Poster	Kait Ayres	SPEECH MOTOR ADAPTATION TO AUDITORY
Section 3			PERTURBATION IN CHILDREN WHO DO AND DO NOT
			STUTTER

AGRICULTURE, FOOD, & ENVIRONMENTAL SCIENCES

Category	Туре	Student(s)	Project
Agriculture & Animal Science,	Poster	Shelby Goodwin	FLIGHT BEHAVIOR AND SUCCESSFUL LANDINGS OF
Section 1			LAYING HENS HOUSED IN AVIARY SYSTEMS WITH LITTER
Agriculture & Animal Science,	Poster	Ashley Leach	OPTIMIZING BAIT FOR MONITORING THE INVASIVE PEST,
Section 2			SPOTTED WING DROSOPHILA (DROSOPHILA SUZUKII
			MATSUMURA)
Agriculture & Animal Science,	Poster	Stephan Diljak	EFFECTS OF PLATING CONDITIONS ON ZEBRAFISH
Section 3			EMBRYONIC FIBROBLASTS
Agriculture & Animal Science,	Poster	Shelby Tackett	DEVELOPMENT OF A FARM TO CONSUMER TRACEABILITY
Section 4			MODEL
Agriculture & Animal Science,	Poster	Nicole Martinec,	EFFECT OF CHIP SCRAPS ON STARTER PIG GROWTH
Section 5		Caelah Doerr, Erika	
		First, Ashley	
		Rogers, Krysten	
		Trottier	
Agriculture & Animal Science,	Oral	Benjamin Bailey,	ANTIBIOTICS: THE CONNECTION BETWEEN POLICY AND
Section 1		Ryan Guysky,	FACT
		Chelsey Klein, John	
		Peleman,	
		Paveenuch	
		Sritragu	
Agriculture & Animal Science,	Oral	Roya Oliai	THE ROLE AND USE OF MODEL SYSTEMS TO STUDY
Section 2			HUMAN PREIMPLANTATION EMBRYOS
Environmental Science &	Poster	Kimberly Ferguson	TROPISM RESPONSES AND GROWTH PATTERNS OF WIND
Natural Resources,			TREATED PINUS CONTORTA DOUGLAS VAR. LATIFOLIA
Section 1			

Environmental Science & Natural Resources, Section 2	Poster	Annette Lundberg, Ruth Adamus, Mathieu Gervais, Riley Ravary	ECTOPARASITIC ACTIVITY IN INCUBATING BIRDS
Environmental Science & Natural Resources, Section 1	Oral	Nicole Zokvic	EPIZOOTIOLOGY OF EMERGENT FLAVOBACTERIA IN GREAT LAKES CHINOOK SALMON (ONCORHYNCHUS TSHAWYTSCHA) AND HATCHERY WATERWAYS
Health, Food & Wellness, Section 1	Poster	Deanna Phelan	RELIABILITY AND VALIDITY OF THREE PHYSICAL MEASUREMENTS DURING PREGNANCY AND POSTPARTUM
Health, Food & Wellness, Section 2	Poster	Adriel Egner	POORER AEROBIC FITNESS PREDICTS REDUCED INTEGRITY OF COGNITION ACROSS MULTIPLE MEMORY SYSTEMS
Health, Food & Wellness, Section 3	Poster	Mitchell Rozman	THE IMPACT OF AGING ON PERIPHERAL BLOOD FLOW
Health, Food & Wellness, Section 1	Oral	Kayle Noble	EXPLORING AGE-RELATED CHANGES IN MICROVASCULAR FUNCTION WITH MRI
Health, Food & Wellness, Section 2	Oral	Kristyn Wilhelm, Samantha Belanger	THE EFFECTS OF MULTIPLE CONCUSSIONS ON NEUROCOGNITIVE PERFORMANCE AND SYMPTOM CLUSTERS IN HIGH SCHOOL AND COLLEGIATE STUDENT- ATHLETES

COMMUNICATION ARTS & SCIENCES

Category	Туре	Student(s)	Project
Communication Arts & Sciences,	Poster	Stephanie Schmidt,	ONE SMALL STEP FOR (A) MAN: FUNCTION WORD
Section 1		Jesse Nagel	REDUCTION AND ACOUSTIC AMBIGUITY
Communication Arts & Sciences,	Poster	Jason Pearson	AN ANALYSIS OF THE ELEMENTS OF PERSUASION IN
Section 2			COACHES' LOCKER ROOM SPEECHES
Communication Arts & Sciences,	Oral	TIE	(1) PHOTOGRAPHIC EXHIBITION AND BOOK: AN
Section 1		(1) Marisa Hamel,	EXTRAORDINARY DOCUMENT OF OUR WORLD AND DETROIT
		Kathleen McLain	RESURGENT

UURAF Award Recipients | 3

Digital Media, Section 1	Oral	(2) Julia Grippe, Danielle Turcotte Antonio Revard, Dan Sosnowski, Benjamin Szymczak	(2) REVISITING VERGER'S DAHOMEY: A PHOTOGRAPHIC CONTRAST FEATHER FEUD
Digital Media, Section 2	Oral	Simon Schuster	SUSTAINING STATE

EDUCATION

Category	Туре	Student(s)	Project
Education,	Poster	Augusta Morrison,	ART FOR THE BLIND
Section 1		Emily Ekdom	
Education,	Oral	Andrea Grafstein,	MOTIVATIONAL FACTORS TOWARDS SCHOOL FOR
Section 1		Alayna	CULTURALLY DIVERSE STUDENTS: INTEREST AND
		Washington	RESPECT

ENGINEERING, COMPUTER SCIENCE, & MATHEMATICS

Category	Туре	Student(s)	Project
Engineering, Computer Science,	Poster	Tianyu Zhao	EMBEDDED CONTROL SYSTEM OF A TAIL ASSISTED
& Mathematics,			JUMPING AND RUNNING ROBOT
Section 1			
Engineering, Computer Science,	Poster	Charles Chen	NOVEL ALKALINE HYDROGEN PEROXIDE PRETREATMENT
& Mathematics,			ENHANCES THE ENZYMATIC DIGESTIBILITY OF WOODY
Section 2			BIOMASS SUBSTRATES UNDER AMBIENT CONDITION
Engineering, Computer Science,	Poster	Kaitlin Ward	DETROIT ZOOLOGICAL SOCIETY WASTE TO ENERGY
& Mathematics,			FEASIBILITY STUDY
Section 3			
Engineering, Computer Science,	Poster	Jennifer Jones	WHAT MAKES GODIVA CHOCOLATE SUPERIOR TO OTHER
& Mathematics,			TYPES OF CHOCOLATE?

Section 4			
Engineering, Computer Science,	Oral	Jennifer Andrews	QUANTITATIVE ESTIMATION OF LEACHED IRON FROM
& Mathematics,			METAL-NITROGEN-CARBON BASED CATALYST USING UV-
Section 1			VIS SPECTROSCOPY

NATURAL & PHYSICAL SCIENCES

Category	Туре	Student(s)	Project
Biochemistry & Molecular	Poster	Keenan Noyes	REGION SPECIFIC PROTEIN REFINEMENT USING STEERED
Biology,			MOLECULAR DYNAMICS
Section 1			
Biochemistry & Molecular	Poster	Brandon Wilkinson	THE EFFECTS OF PU.1 AND CEBP/ß ON CHROMATIN
Biology,			ARCHITECTURE AND LINEAGE-DETERMINING CELL
Section 2			DIFFERENTIATION
Biochemistry & Molecular	Poster	TIE	(1) IDENTIFICATION OF CAROTENOID PATHWAY
Biology,		(1) Yen-Nhu	REGULATORS THROUGH QUANTITATIVE TRAIT LOCI AND
Section 3		Nguyen	GENOME WIDE ASSOCIATION STUDIES
		(2) Patrick Ropp	(2) EXPRESSION OF A FERULATE MONOLIGNOL
			TRANSFERASE IN ARABIDOPSIS AND CLONING OF A
			CINNAMOYLCOENZYME A REDUCTASE RNAI CONSTRUCT
Biochemistry & Molecular	Oral	Irina Pushel	USING FLY EYES TO UNDERSTAND A TUMOR SUPPRESSOR:
Biology,			KEY MUTATIONS IN DROSOPHILA RBF1 REVEAL
Section 1			FUNCTIONAL SIGNIFICANCE IN FLY EYE DEVELOPMENT
Cell Biology, Genetics, &	Poster	Shohei Ueno	EYA1 SEQUENCING IN A PATIENT WITH SUSPECTED
Genomics,			BOR SYNDROME
Section 1			
Cell Biology, Genetics, &	Poster	Ashley D. Sample	MIXED-LINEAGE KINASES IN GLIOMA VIABILITY
Genomics,			
Section 2			
Cell Biology, Genetics, &	Poster	Irene Li	FREE-FATTY ACID EFFECTS ON LIVER CANCER METASTASIS:
Genomics,			ACCELERATING THE EPITHELIAL-MESENCHYMAL

Section 3			TRANSITION
Cell Biology, Genetics, &	Oral	Sean Misek	MLK3 SIGNALING IN GLIOMA INVASION
Genomics,			
Section 1			
Microbiology, Immunology &	Poster	Jessica Hunter	A DEGENERATE VIBRIO CHOLERAE DIGUANYLATE CYCLASE
Infectious Disease,			REGULATES BIOFILM FORMATION AND MOTILITY
Section 1			THROUGH SYNTHESIS OF CYCLIC DI-GMP
Microbiology, Immunology &	Poster	Michael Paxhia	USING LIPOPOLYSACCHARIDE TRUNCATION MUTANTS TO
Infectious Disease,			INVESTIGATE SURFACE CHARACTERISTICS AND METAL
Section 2			REDUCTION IN GEOBACTER SULFURREDUCENS
Microbiology, Immunology &	Poster	Daniel Mitchell	RELATIONSHIP BETWEEN FITNESS AND INVASION IN LONG-
Infectious Disease,			TERM E. COLI EVOLUTION POPULATIONS
Section 3			
Microbiology, Immunology &	Poster	Ari Walter	HISTOLOGICAL AND MOLECULAR PROFILE OF TFAP2A
Infectious Disease,			KNOCKOUT EMBRYOS REVEAL CRITICAL FUNCTION IN SKIN
Section 4			DEVELOPMENT
Physical Sciences,	Poster	Emily Movsesian	MELTING OF THE EARTH'S MANTLE: A MODELING
Section 1			APPROACH WITH RESEARCH AND EDUCATIONAL
			APPLICATIONS
Physical Sciences,	Poster	Sultan Qiblawi	DIVALENT COPPER TRANS-1,4-
Section 2			CYCLOHEXANEDICARBOXYLATE COORDINATION
			POLYMERS WITH ISOMERIC DIPYRIDYLAMIDE LIGANDS:
			NEW PILLARED AND SELF-PENETRATED BINODAL
			NETWORKS

SOCIAL SCIENCES

Category	Туре	Student(s)	Project
History, Political Science, &	Oral	Cody Schulz	GERMAN ENERGY SECURITY: POSSIBILITIES FOR THE
Economics,			FUTURE
Section 1			
History, Political Science, &	Poster	Michelle LeBlanc	PLANNING POLICIES AND REGULATIONS THAT CAN

UURAF Award Recipients | 6

		REDUCE THE PRACTICE OF PRIVATE PROPERTY
		ABANDONMENT IN THE UNITED STATES
Poster	Susie	SEXUAL DIMORPHISM IN THE PREFRONTAL CORTEX
	Sonnenschein	DURING PUBERTY IN RATS
Poster	Neelima Wagley	THE EFFECT OF LANGUAGE BACKGROUND ON THE
		PERCEPTION OF TONAL GROUPINGS
Poster	Shelby Parks	AN INVESTIGATION INTO THE RELATIONSHIPS BETWEEN
		TEMPERAMENT AND PEER INTERACTIONS IN PRESCHOOL
		CHILDREN
Poster	Monique Daignault	CAN KNOWING WHEN A CHANGE WILL OCCUR HELP YOU
		DETECT IT?
Poster	Arika Starostanko,	ASSOCIATIONS BETWEEN CAREGIVERS' LEVEL OF
	Lauren Prainito	EDUCATION AND THEIR USE OF MENTAL STATE LANGUAGE
		WITH YOUNG CHILDREN
Poster	Hiba Naseem,	FOLLOW MY LEAD: IMPORTANCE OF PARENTAL
	Ashley Martin	RESPONSIVENESS TO CHILD'S INITIATIONS
Poster	Kaitlin Scharra	EXPLORING THE USE OF PREHISTORIC STONE BOX GRAVES
		AND THE ROLE OF BURIAL TREATMENTS: A REANALYSIS OF
		THE EAST ST. LOUIS STONE QUARRY SITE CEMETERY (CA
		AD 1300)
Oral	Abigail Wroble	PROBATION/PAROLE OFFICERS ROLE IN RECOVERY: THE
		IMPORTANCE OF COMMUNICATION
Oral	Justin Cochran,	THE INFLUENCE OF SOCIAL CONTEXT ON THE FREQUENCY
	Torin Kulhanek	AND OUTCOME OF CONFLICT
Poster	Amanda Freis	RECENT VICTIMIZATION, MENTAL HEALTH, AND SOCIAL
		WORK NEEDS OF WOMEN IN JAIL
	Poster Poster Poster Poster Poster Poster Oral Oral	SonnenscheinPosterNeelima WagleyPosterShelby ParksPosterMonique DaignaultPosterArika Starostanko, Lauren PrainitoPosterHiba Naseem, Ashley MartinPosterKaitlin ScharraOralAbigail WrobleOralJustin Cochran, Torin Kulhanek