2019 University Undergraduate Research Arts Forum			1st Place Awa	ard Recipients
			ARTS &	LETTERS
Category	Туре	Sec	Name(s)	Presentation Title
Humanities	Poster	1	Mitch Carr, Kara Swanson, Talia Cohen, & Jasmine Young	Comparison in Finding Aesthetic in Poetry: English vs. Non-English Majors
Humanities	Oral	2	Katrina Stebbins	Race, Writing, Rhetoric, and American Cultures
Linguistics, Languages, & Speech	Poster	1	Darby Grachek, Kerry Berres, Jett Hampton, Sarah Sirna, Sarah Jones, & Hollie Nusbaum	
Linguistics, Languages, & Speech	Poster	2	Lauren Lee, Raymond Abbo, & Madelyn Marchiori	Relations among Home Literacy Environment and Phonological Awareness Skills of Young Children with Special Needs
Linguistics, Languages, & Speech	Poster	3	Sarah Dec, Audrey Saggau- Drotos, Paul Clancy, & Anusha How Talker Rhythm Affects Speech Understanding in Noise Mamidipaka	
Visual & Performing Arts	Poster	1	Cassie Feith	Blurring Binaries: Queering Poetry at the Intersection of the Personal & the Political
Visual & Performing Arts	Poster	2	Brandon Barker The Ding Dongs Scenic Design	
Visual & Performing Arts	Oral	3	Richard Tanner	Snares to Wares Giraffe
			AGRICULTURE, FOOD,	& ENVIRONMENTAL SCIENCES
Agriculture & Animal Science	Poster	1	Carlos Diola	Polyphenolic Profiling of Grass-Finished Beef and its relationship with Beta-Carotene
Agriculture & Animal Science	Poster	2	Laura Ford	Assessment of microRNA abundance throughout fetal and postnatal stages of pig skeletal muscle development
Agriculture & Animal Science	Poster	3	Qadir Muhammad, Shannon Leary, & Ava Miller	The Lingering Effect of Human Disturbance on Impala Activity Patterns
Agriculture & Animal Science	Poster	4	Megan Frick	Associational Effects of Chemical Traits Among Tomato Plant Neighbors Shapes the Arthropod Community
Agriculture & Animal Science	Oral	5	Megan Crawford	Effects of Chronic Exposure of Japanese Quail (Coturnix japonica) to Aqueous Film Forming Foam (AFFF)
Environmental Science & Natural Resources	Poster	1	Vincent Marinelli	A new wall film model for membrane fouling by emulsified oil
Environmental Science & Natural Resources	Poster	2	Tara Mojzuk	The Effects of Forest Retention Treatments on Microclimate and Carabid Beetle Species Composition

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Category	Туре	Sec	Name(s)	Presentation Title		
	Type	Jec				
Environmental Science & Natural Resources	Poster	3	Sarah Klein Nest Predation Risk Assessment of a Glyptemys muhlenbergii Translocation Progra			
Environmental Science & Natural Resources	Poster	4	Ally Brown	Prairie restoration method affects invasive flowering species and pollinators		
Environmental Science & Natural Resources	Oral	5	David Heit	Influence of Topography in Terrestrial Home Range Estimations of Large Carnivores		
Food Science & Human Nutrition	Poster	1	Sophia Perrelli	The Altered Cognitive and Motor Functions That Coffee Beans Provoke Based on Chemical Composition.		
Food Science & Human Nutrition	Poster	2	Travis Goeden	Tart Cherry Extract Reduces Oxidative Stress and Inflammation Markers in Macrophages		
Food Science & Human Nutrition	Oral	2		Effect of Novel Sound Wave Milling vs Conventional Knife Milling on Native and Heat Pre-		
Food Science & Human Nutrition	Oral	5	Anna Akariza	treated Whole Dry Beans (Phaseolus vulgaris) for Ingredients		
Plant Sciences	Poster	1	Kisanet Gebresilase	Microbially mediated changes in the root system of switchgrass during drought		
Plant Sciences	Poster	2	Paige Pline	Comparative analysis of two fungicide sensitivity tests for Helminthosporium solani		
Plant Sciences Poste	Dector	2	Madeline Bresson	Elucidating the role of common bean PvSUT2 in sucrose phloem loading and dissecting its		
	Poster	5		potential for engineering heat tolerant plants.		
Plant Sciences	Oral	4	Brooke Desposato	Evaluating the effects of Switchgrass Mosaic Virus infection on seed production and		
				germination in Panicum virgatum L. (Switchgrass)		
BUSINESS						
Business	Poster	1	Nic Weller & Justin Bennie Not so Simple Moving Averages			
Business	Poster	2	Lydia Whipple Uncharted Territory: What Determines Profit at the Sub-Industry Level			
Business	Oral	3	Dan Iancio Transparent Artificial Intelligence in Business: Supporting Management Decision N			
			COMMUNICA	TION ARTS & SCIENCES		
Communication Arts & Sciences	Poster	1	Ellen Brooks, Alexis Yang, Nikki Losievski Reliability of LENA in Identification of Child Vocalizations in Naturalistic Environm			
Communication Arts & Sciences	Poster	2	George McNeill, Gabriela Gendreau, Ian Crist, Hanna Wong, Whitney Zhou, Stefani Taskas, & Ann Desrochers	Sparty & "Sparthan": Exploring the Proteus Effect in Virtual Reality and its Correlations with Campus Pride and Misogynistic Attitudes		
Communication Arts & Sciences	Poster	3	Carolyn Whiting & Patty Girardot Identifying communications in construction projects through social networks			

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Category	Туре	Sec	Name(s)	Presentation Title
	Destau			Interpreted Political Interest: Experimentally manipulating civic customization to measure
Communication Arts & Sciences	Poster	4	Victoria Topor	exposure to politics on Facebook
Communication Arts & Sciences	Oral	E	i-mily lenkins	Establishing the Digital & Community Publishing Collective at MSU through a Literature
Communication Arts & Sciences	Oral	5		Review and Grant Proposal Analysis
Digital Media	Oral	1	Zoe Kissel & Elizabeth Keller	MSU TV: Growing A Campus Television Channel
Digital Media	Oral	2	Andrea Uglietta	Real World Creative Research
			E	DUCATION
Education	Poster	1	Mckain Williams	The Role of Familiar Music on College Students' Informal Learning
Education	Poster	2	Eric Locker	Cost-Effectiveness of Screening for Developmental Delays in Early Education and
Education	POSLEI	Z		Healthcare Settings
Education	Poster	3	China Gross	Reconstructing the Miseducation of Sex for Black Girls
Education	Poster	4	Robby McKay & Matthew Neumann	Analysis of Students' Explanations of LDFs Using Machine Learning Techniques
Education	Oral	Е	Robby McKay	The Impact of Core-Idea Centered Instruction on High School Students' Understanding of
Education	Oral	5		Structure-Property Relationships
Kinasialagu	Poster	1	Madeleine Motloch, Megan	Are Two Hands Better Than One When Learning to Control Variability in Precision
Kinesiology	FUSLEI		Miller & Emma Schuele	Movement Tasks?
Kinesiology	Poster	2	Kate Voisard Aerobic Fitness and Arithmetic Approximation in College-aged Adults	
Kinasialam	Postor	2	Kayley Irwin	Visuomotor Perturbation Plays a Greater Role than Dynamic Perturbation during a
Kinesiology	Poster	3		Bimanual Interference Task
Kinesiology	Oral	4	Tucker Alchin	Learning by Observation: Is it Important to Watch Multiple Ways to Solve a Task?
Kinesiology	Oral	5	Katie McKee	Preschoolers' Classroom Free-Play: Activity Type and Intensity by Location
			ENGINEERING, COMPU	TER SCIENCE, & MATHEMATICS
Engineering, Computer Science, &	Poster	1	Zoe Wilton	Monitoring Nutrients in Synthetic Hydrolyzed Urine Droplets Using Nanochromatography
Mathematics	FUSLEI	T		Normal of the broghets of the broghet of the br
Engineering, Computer Science, &	Poster	r 2	Mack Marshall	Formation and Characterization of the SmxMg3-xSb2 System
Mathematics	FUSLEI	2		
Engineering, Computer Science, &	Postor	2	Lleather Neanar	A Computational Investigation of the Mouse Genome
Mathematics	Poster	3	Heather Noonan	
Engineering, Computer Science, &	Dector	Λ	IRachelle Crow	Treatment of Winery Wastewater by a Vertical Flow Constructed Wetland for Nitrogen
Poster Poster	ruster	4		Removal

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Category	Туре	Sec	Name(s)

Category	Туре	Sec	Name(s)	Presentation Title
Engineering, Computer Science, & Mathematics	Poster		Brant Toback	Mechanical and Optical Properties of Silicon Nanoparticles/ PDMS Composites
Engineering, Computer Science, & Mathematics	Poster	6	Aakash Dave	RamanSauce: Open Source Software for Multiplexed Imaging of Surface-Enhanced Raman Scattering Nanoparticles
			HEALTH	SCIENCES
Epidemiology & Public Health	Poster	1	Gracie Goble	Impacting Cancer Prevention through Education and Community Outreach
Epidemiology & Public Health	Poster	2	Claudia Allou Knowledge gaps using soundscape mapping and health data from a Detroit neighbor	
Epidemiology & Public Health	Poster	3	Payton Korhorn	Aromatherapy as Treatment for Anxiety, Pain, Postoperative Nausea, and Vomiting
			NATURAL &	PHYSICAL SCIENCES
Biochemistry & Molecular Biology	Poster	1	Adam Fillion	Specific Binding to Magnetic Nanoparticles as a Method of Mitochondrial Purification and Immobilization
Biochemistry & Molecular Biology	Poster	2	Jay Wright	Evaluating Bacterial Microcompartment Shell Proteins as Building Blocks for Self-Assembly of Predictable Nano-scaffolds
Biochemistry & Molecular Biology	Poster	3	ordyn Vanportfliet Modeling Interactions Between Intramembrane Metalloprotease, SpoIVFB, and its Substrate, Pro-?K	
Biochemistry & Molecular Biology	Poster	4	Robby Teis Understanding the Transcriptional Corepressor Activity of CtBP	
Biochemistry & Molecular Biology	Poster	5	Teja Mogasala Changing dietary fat content post-puberty influences mouse bone density	
Cell Biology, Genetics, & Genomics	Poster	1	Tim Dorweiler Effect of Intermittent Fasting on Retinal and Liver SIRT1/LXR Signaling Pathway	
Cell Biology, Genetics, & Genomics	Poster	2	Lindsey Royer	Three-Dimensional Characterization of the Effects of Ovarian Hormones on Uterine Nerve Density and Organization
Cell Biology, Genetics, & Genomics	Poster	3	Brian Amburn	Scarless CRISPR gene editing of human lipoxygenases in iPSCs for the study of oxylipin function in congenital heart disease
Cell Biology, Genetics, & Genomics	Poster	4	Abi Otwell Heart Rate Variability and Gastric Rhythm as Symptom Indicators in Pediatric Orthosta Intolerance	
Cell Biology, Genetics, & Genomics	Oral	5	Emma Bush PCR Assay to Detect F508del Mutation on the CFTR Gene	
Cell Biology, Genetics, & Genomics	Oral	6	Brett Trombley	The Effects of Galactosemia on Caspase-1 Activation in Retinal Tissue
Integrative Biology & Organismal Biology	Poster	1	Michael Killewald (Hymenoptera: Megachilidae) in Central Michigan	
Integrative Biology & Organismal Biology	Poster	2	Ally Brown	The Function of Infanticide by Females in a Large Social Carnivore

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Category	Туре	Sec	Name(s)	Presentation Title
	Dector	2		A New Onychodont (Osteichthyes, Sarcopterygii) Record from the Middle Devonian of
Integrative Biology & Organismal Biology	Poster	3	Lynnea Jackson	Michigan
Integrative Rielegy & Organismal Rielegy	Oral	4		Geometric Morphometric Analyses of Threespine Stickleback in a Network of
Integrative Biology & Organismal Biology	Urai	4	Marty Schmidt	Geographically Novel Lakes
Microbiology, Immunology, & Infectious	Poster	1	Zara Sragi	The Evaluation of Human Vaginal Microflora of Bacterial Vaginosis Individuals Using
Disease	FUSLEI	Т		CMEIAS Software of Computer Assisted Microscopy
Microbiology, Immunology, & Infectious	Dector	1	Sean Hyslop	Blockade of SLAMF7 Receptor Enhances Anti-Tumor Immunity and Prolongs the Survival
Disease	Poster	Т		for Tumor-Bearing Mice
Microbiology, Immunology, & Infectious	Poster	2	Mitchell Borin	Influence of Oxybenzone on Mammary Tumor Proliferation
Disease	FUSLEI	Z		
Microbiology, Immunology, & Infectious	Poster	3	Ishani Pandya	Small RNAs with Big Impacts on Bacterial Virulence Factors
Disease	ruster	5		
Microbiology, Immunology, & Infectious	Poster	4	Megan Seyerle	Investigating the Regulation of a Multi-Domain Protein that Controls Biofilm Formation in
Disease	103121	4		Burkholderia cenocepacia
Microbiology, Immunology, & Infectious	Oral	5	Madison Patrus	Rapid Detection of Clinically Relevant Bacteria Including Acinetobacter Baumannii
Disease	Orai	5		
Neuroscience	Poster	1	Faiez Samad & Hang Xiong	Evaluating the Role of Orexinergic Projection to the Dorsal Raphe in Regulating Affective
	103101	-		Behaviors
Neuroscience	Poster	2	Maggie Ahern	Female Reproductive State Influences Expression of Serotonin 1A, 2A, and 2C Receptors in
	103101	2		the Mesolimbic Dopamine Pathway
Neuroscience	Poster	3	Ashley Chambers	Changes in Extracellular Neurotransmitter Levels in the Ventral Tegmental Area during
	103121	5		Social Play in Juvenile Male and Female Rats
Neuroscience	Poster	4	Ann Scazzero	Sex-Specific Regulation of Juvenile Social Play by Oxytocin in the Nucleus Accumbens
Neuroscience	Oral	5	Brent Strong	Sex Differences in Intravenous rt-PA Thrombolysis Treatment for Acute Ischemic Stroke: An
ived oscience c	Orai			Updated Meta-analysis
Physical Sciences	Poster	1	Hazirah Sanani Analysis of Star Formation History of Novae in Andromeda Galaxy	
Physical Sciences	Poster	2	Molly Janasik GADGET System for Nuclear Astrophysics: Gamma-ray Data Analysis	
Physical Sciences	Poster	3	Dylan Mankel A Laboratory Analysis of Chemical Gradients at the Lost City Hydrothermal Field	
Physical Sciences	Poster	4	Megan Davis	Modeling Radial Migration of Stars and Gas in the Milky Way
Physical Sciences	Postor	г	Peyton Lalain	High Voltage Electrode Conditioning For Use In The Measurement of the Permanent
Physical Sciences	Poster	5		Electric Dipole Moment of Ra-225

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Category	Туре	Sec	Name(s)	Presentation Title				
Physical Sciences	Oral	6	Jordan Stomps	Energy Calibration of a Gamma-ray Spectrum for Experimental Nuclear Astrophysics				
Toxicology & Pharmacology	Poster	1	Elyse Eldridge	Nasal Accumulations of Innate Lymphoid Cells in Mice Exposed and Re-Exposed to Ozone				
Toxicology & Pharmacology	Poster	2	Benjamin Kessler	Using C. Elegans to Discover the Physiological Benefits of Polyunsaturated Fatty Acids				
SOCIAL SCIENCES								
Anthropology	Poster		Emma Bignall, Hattie Pimentel, Hunter Kuchek & Rhett Pimentel	During drought in northern Kenya, mothers with iron deficiency anemia were younger, but not of low socioeconomic status				
History, Political Science, & Economics	Oral	2	Anna Esenther	Fact or Fancy? The Conflicting Approaches of Classical Economists and Mid-Nineteenth- Century English Novelists to Understanding Industrial Capitalism				
Psychology	Poster	1	Maddie Bross, Riti Singh, & Islam Said	The Effects of Napping on the Consolidation of Generalized Learning of Synthetic Speech				
Psychology	Poster	2	Rebecca Flynn	The Relation between Trauma and Empathy in Juvenile Offenders				
Psychology	Poster	3	Pero Dagbovie Is There Evidence of a "Ferguson Effect" on Crime in the United States?					
Psychology	Poster	4	Nataly Dawood Napping May Mitigate the Effects of Sleep Deprivation on Sustained Attention Memory Maintenance					
Psychology	Poster	5	Jessica Fattal Pupillometry as a Tool for Understanding Schizophrenia					
Psychology	Poster	6	John Bigham, Katie Lord, Dana Pontious					
Psychology	Poster		Ash Boss, Bella Andrus, Taylor Anderson	What Does it Means to be a Man or Woman? An Analysis of the Social Construction of Gender				
Psychology	Oral	8	Valerie Kemp	The Intersection of Race and Attractiveness				
Social Sciences: General	Poster	1	Ella Patrona & Jessica Altenberger	How Do Parents' Stress and Self-Efficacy Affect the Ways They See Their Children?				
Social Sciences: General	Poster	2	Terra Dunn & Nina Brown Correlates of Prejudice Towards Transgender and Gender Diverse Individuals					
Social Sciences: General	Poster	3	Emily Hatch & Kate LaFrenz Community Participatory Research in Palmichal, Costa Rica					
Social Sciences: General	Oral	4	Samantha Wagner	The Impact of Urban Agriculture on Wellbeing and Resilience				
Social Sciences: General	Oral	5	Rachel Rantanen Universal Design in Technology-Learning Environments on Campus: A Case Study Usi Behavioral Maps and Observations					
Social Sciences: General	Oral	6	Kendra Hungerford	Long-Term Head Start Impact on Outcomes for Children in Foster Care				

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Category	Type Sec Name(s)		Name(s)	Presentation Title	
Social Work	Poster	1	l laire Beutler	Evaluation of a Prototype for Integrating Mental Health Across Gerontological	
	Poster	Ŧ		Environments: A Virtual Reality Approach (IMAGE-VR)	
Sociology	Poster	1	Ayla Schwartz	Methodology and Morphology in Harris Line Analysis	
Seciology (Dester	ter 2	Bridget ()wens	Women In STEM At MSU: Status Of Female Faculty Nursing And Comparison To Other Big	
Sociology	Poster			10 Schools	
Sociology	Oral	3	Faizan Ali	Contingent Efficiency?: Assessing prepaid water meter in Palestine	