

2019 Appalachian Student Research Forum Award Winners

Alkhateeb, Tuqa

First Place, Graduate Student-Doctoral, Medicine/Diseases, Oral Presentation

S100A9 Sustains Myeloid-Derived Suppressor Expansion and Immunosuppression During Chronic Murine

Dr. Mohamed Elgazzar, Internal Medicine, East Tennessee State University

Archibald, Timothy

First Place, Pharmacy Student/Grad Chemical Sciences, Poster Presentation

One year monitoring of potency change in commercial ibuprofen products stored in a household setting

Dr. Stacy Brown, Pharmaceutical Sciences, East Tennessee State University

Axelrad, Mary

First Place, Medical Resident or Clinical Fellow Healthcare, Poster Presentation

Improving the Referral Process for Behavioral Health Using a Patient-Centered Approach

Dr. Amanda Stoltz, Family Medicine, East Tennessee State University

Bass, Malikai

First Place, Undergraduate Student Arts and Humanities, Poster Presentation

Boys Like Me: Neurodivergence in the Young Adult Novel

Dr. Scott Honeycutt, Literature and Language, East Tennessee State University

Bledsoe, April

First Place, Graduate Student-Master's Natural Resources, Agriculture, and Environmental Sciences,

Ecological Niche Modeling and Sustainable Agroforestry: Climate Change Mitigation for Guatemalan Coffee

Dr. T. Andrew Joyner, Geosciences, East Tennessee State University

Bogner, Emily

First Place, Graduate Student-Master's, Natural Resources, Agriculture, and Environmental Sciences,

*Differentiating Black Bears (*Ursus americanus*) and Brown Bears (*Ursus arctos*) Geographically using Linear Measurements of Teeth and Identification of Ursids from Oregon Caves National Monument*

Dr. Blaine Schubert, Geosciences, East Tennessee State University

Bosse, Samantha

First Place, Undergraduate Student Social Sciences, Poster Presentation

How Emotional Body Expressions Direct an Infant's First Look

Dr. Alyson Chroust, Psychology, East Tennessee State University

Clark, Emily

Second Place, Undergraduate Student Social Sciences, Poster Presentation

Anticipated Stigma and Anxiety Symptoms: Does Concealment of Sexual Orientation Moderate this

Dr. Stacey Williams, Psychology, East Tennessee State University

Clingensmith, Rachel

Second Place, Graduate Student-Doctoral Social Sciences, Poster Presentation

We All Need Somebody to Lean on: Social Support as a Protective Factor for Individuals with Childhood

Dr. Diana Morelen, Psychology, East Tennessee State University

Dada, Samson

First Place, Graduate Student-Master's Chemical Sciences, Poster Presentation

Theranostic Nanoparticles for Simultaneous Detection and Treatment of Cancer

Dr. Hua Mei, Chemistry, East Tennessee State University

Dawoud, Fakhry**First Place, Medical Student Medicine, Poster Presentation**

ECMO Support for Pediatric Burn Patients: A Potential Life Saving Modality

Dr. Joe Florence, Family Medicine, East Tennessee State University

Dolson, Robyn**First Place, Graduate Student-Master's, Healthcare, Oral Presentation**

Pocket Ace: Neglect of Child Sexual Abuse Survivors in the ACE Study Questionnaire

Dr. Diana Morelen, Psychology, East Tennessee State University

Dreves, Parker**First Place, Graduate Student-Doctoral, Social Sciences, Oral Presentation**

An Investigation into the Structure of Self-Control

Dr. Ginette Blackhart, Psychology, East Tennessee State University

Epperson, Daniel**First Place, Medical Student Medicine, Poster Presentation**

Spontaneous Esophageal Rupture without Risk Factors

Dr. Stephen Blankenship, Section of Medical Education / Center for Experiential Learning, East Tennessee State University

Fain, Misty**First Place, Graduate Student-Master's Diseases, Poster Presentation**

NTRK2 Gene Expression Levels in Laser Captured Glutamatergic Neurons From Animal Models of Social

Dr. Michelle Chandley, Health Sciences, East Tennessee State University

Foster, Dylan**First Place, Undergraduate Student Biological Sciences, Poster Presentation**

Developing a C. elegans Co-infection Model for Assessing Bacterial-Fungal Interactions

Dr. Sean Fox, Health Sciences, East Tennessee State University

Gleadhill, Claire**Second Place, Medical Student Diseases, Poster Presentation**

Time to Think Deeper when HSV is Presenting in an Unusual Way

Dr. Demetrio Macariola, Pediatrics, East Tennessee State University

Gretak, Alyssa**Second Place, Graduate Student-Doctoral, Social Sciences, Oral Presentation**

Effective Practices to Facilitate Rural Reentry: A Policy Analysis

Dr. Jill Stinson, Psychology, East Tennessee State University

Gunnin, R.**First Place, Undergraduate Student Biological Sciences, Poster Presentation**

A new genus of desmognathan salamander (Plethodontidae) from the early Pliocene Gray Fossil Site of

Dr. Blaine Schubert, Geosciences, East Tennessee State University

Hillhouse, Linden**First Place, Undergraduate Student Social Sciences, Poster Presentation**

Data Quality: Does Time of Semester Matter?

Dr. Ginette Blackhart, Psychology, East Tennessee State University

James, Caytlin**Second Place, Undergraduate Student Biological Sciences, Poster Presentation**

Lack of Osteopontin Decreases Systolic and Diastolic Functional Parameters of the Heart Following

Dr. Krishna Singh, Biomedical Sciences, East Tennessee State University

Kuvayskaya, Anastasia**First Place, Graduate Student-Master's Group 1, Physical/Chemical Sciences, Oral Presentation**

Synthesis of Long-chain Alkylbenzenes on Superacidic Catalysts Containing Embedded Phosphotungstic Acid

Dr. Aleksey Vasiliev, Chemistry, East Tennessee State University

Majors, Chloe**First Place, Undergraduate Student Biological Sciences, Poster Presentation**

Nicotine-enhanced sign tracking results in greater cocaine demand in rats using a behavior economic

Dr. Matthew Palmatier, Psychology, East Tennessee State University

Malone, Hannah**Second Place, Graduate Student-Doctoral, Medicine/Diseases, Oral Presentation**

Therapeutic Potential of FAK Inhibitor After Stroke in Neuroprotection and Neurogenesis

Dr. Theo Hagg, Biomedical Sciences, East Tennessee State University

Manthri, Sukesh**First Place, Medical Resident or Clinical Fellow Medicine, Poster Presentation**

A Rare Case of Non-Producing Primary Plasma Cell Leukemia

Dr. Kanishka Chakraborty, Internal Medicine, East Tennessee State University

Mawudoku, Daniel**First Place, Graduate Student-Master's Group 2, Physical/Chemical Sciences, Oral Presentation**

Immobilization of Electrocatalytically Active Gold Nanoparticles on Nitrogen-Doped Carbon Fiber Electrodes

Dr. Gregory Bishop, Chemistry, East Tennessee State University

McCuiston, Pearl**Second Place, Undergraduate Student Diseases, Poster Presentation**

The Role of the Ataxia Telangiectasia Mutated Kinase on Diastolic and Systolic Function in Diabetic

Dr. Cerrone Foster, Biological Sciences, East Tennessee State University

Meek, Rachel**First Place, Undergraduate Student Social Sciences, Poster Presentation**

Psychache and Suicide Risk in the LGBTQ Community: Considering the Role of Time Perspective

Dr. Jameson Hirsch, Psychology, East Tennessee State University

Menozi, Lucia**First Place, Graduate Student-Doctoral Healthcare, Poster Presentation**

Objective Measurement of Cognitive Systems During Effortful Listening

Dr. Marcy Lau, Audiology & Speech Pathology, East Tennessee State University

Miller, Madeleine**First Place, Graduate Student-Doctoral Biological Sciences, Poster Presentation**

*Lights, Clock, Action! Circadian Rhythms of Locomotor Activity in *Larinioides cornutus* Indicate Extreme*

Dr. Darrell Moore, Biological Sciences, East Tennessee State University

Mounger, David**First Place, Undergraduate Student Medicine, Poster Presentation**

GLP-1 agonist liraglutide increases metabolic- and cardiovascular-related sympathetic activity of the central

Dr. Matthew Zahner, Health Sciences, East Tennessee State University

Odebunmi, Olufeyisayo**First Place, Graduate Student-Master's Group 2, Medicine/Diseases, Oral Presentation**

Identifying Multiple Risk Factors of Hypertension for Reducing the Prevalence of Peripheral Arterial Disease in

Dr. Hadii Mamudu, Health Services Management & Policy, East Tennessee State University

Okwori, Glory**First Place, Graduate Student-Doctoral Healthcare, Poster Presentation**

Geographic Differences in Contraception Access and Utilization Within Family Planning Organizations in
Dr. Nathan Hale, Health Services Management & Policy, East Tennessee State University

Olanrewaju, Folawiyo**First Place, Graduate Student-Master's Healthcare, Poster Presentation**

Hepatitis C Virus Screening in Federally Qualified Health Centers in Rural Appalachia
Dr. Patricia Vanhook, Nursing, East Tennessee State University

Ozodiegwu, Ifeoma**First Place, Graduate Student-Doctoral, Healthcare, Oral Presentation**

A Qualitative Research Synthesis of Contextual Factors Contributing To Female Overweight and Obesity over
Dr. Hadii Mamudu, Health Services Management & Policy, East Tennessee State University

Parrish, Loni**First Place, Graduate Student-Master's Social Sciences, Poster Presentation**

Serial Spatial Memory Performance and Physical Activity in Children 5-11 Years Old.
Dr. Alyson Chroust, Psychology, East Tennessee State University

Pinkston, Justin**First Place, Medical Student Healthcare, Poster Presentation**

Perception of Cardiovascular Disease Among Adolescence in a Rural Community and the Effectiveness of a
Dr. Jose Velasco, Family Medicine, East Tennessee State University

Pugh, Kelley**First Place, Graduate Student-Master's, Social Sciences, Oral Presentation**

Religious Attendance, Surrender to God, and Suicide Risk: Mediating Pathways of Feeling Forgiven by God
Dr. Jameson Hirsch, Psychology, East Tennessee State University

Ragsdale, Raven**First Place, Graduate Student-Master's Biological Sciences, Poster Presentation**

Circadian Resonance and Entrainment in Three Spider Species (Frontinella communis, Metazygia wittfeldae,
Dr. Darrell Moore, Biological Sciences, East Tennessee State University

Rehman, Haroon**Second Place, Medical Resident or Clinical Fellow Diseases, Poster Presentation**

Not Your Regular Run-of-the-Mill Bladder Cancer
Dr. Kanishka Chakraborty, Internal Medicine, East Tennessee State University

Rutherford, Noah**First Place, Undergraduate Student Diseases, Poster Presentation**

Expression of Oxidized Protein Hydrolase in Bladder Cancers
Dr. William Stone, Pediatrics, East Tennessee State University

Scott, Kyla**Second Place, Undergraduate Student Biological Sciences, Poster Presentation**

Short-Chain Fatty Acid Profiles for Mouse Models of Autism Spectrum Disorder
Dr. Michelle Chandley, Health Sciences, East Tennessee State University

Simerly, Gabriel**Second Place, Undergraduate Student Social Sciences, Poster Presentation**

Effects of Self-Care on Undergraduate Stress
Dr. Ginette Blackhart, Psychology, East Tennessee State University

Sriramoju, Vindhya**First Place, Medical Resident or Clinical Fellow Medicine, Poster Presentation**

A Case of Postmenopausal Ovarian Hyperandrogenism of Uncertain Etiology

Dr. Saba Aziz, Endocrinology, East Tennessee State University

Stanley, Amber**First Place, Graduate Student-Master's, Biological Sciences, Oral Presentation**

The Effects of Urbanization on Avian Seed Dispersal Success of Eastern Poison Ivy (Anacardiaceae)

Dr. Gerardo Arceo-Gomez, Biological Sciences, East Tennessee State University

Treaster, Morgan**First Place, Graduate Student-Master's Social Sciences, Poster Presentation**

"I Forgive Myself and God:" Coping and Distress Among Parents of Children with Disabilities

Dr. Jameson Hirsch, Psychology, East Tennessee State University

Trogen, Greta**Second Place, Undergraduate Student Diseases, Poster Presentation**

Circulating Oligomeric State and Circadian Rhythm Regulation of CTRP3

Dr. Jonathan Peterson, Health Sciences, East Tennessee State University

Troglin, Courtney**First Place, Pharmacy Student Medicine, Poster Presentation**

Pharmacokinetics of individual versus combined exposure to "bath salts" compounds MDPV, Mephedrone, and

Dr. Brooks Pond, Pharmaceutical Sciences, East Tennessee State University

Uyamasi, Kido**First Place, Graduate Student-Master's Group 1, Medicine/Diseases, Oral Presentation**

Family Size and Risk of Juvenile Idiopathic Arthritis: A Cross-Sectional Study

Dr. Kiana Johnson, Pediatrics, East Tennessee State University

Wade, Parker**Second Place, Pharmacy Student Diseases, Poster Presentation**

Additional Hydroxyl group on CT6 (3,4-dihydroxy-5,7-dimethoxyflavone), a flavone extracted from

Dr. Victoria Palau, Pharmaceutical Sciences, East Tennessee State University

Wagstaff, Peter**Second Place, Undergraduate Student Physical Science, Poster Presentation**

Spatial Extent of Diffuse X-Ray Emitting Regions in Major Merging Galaxies

Dr. Beverly Smith, Physics & Astronomy, East Tennessee State University

Weiner, Jessica**First Place, Graduate Student-Master's Social Sciences, Poster Presentation**

Clinician-Research Collaboration: Determining Research Interests & Needs of Clinicians in the Tri-Cities,

Dr. Brenda Louw, Audiology & Speech Pathology, East Tennessee State University

Wingard, Mary**First Place, Graduate Student-Doctoral Biological Sciences, Poster Presentation**

Ataxia-Telangiectasia Mutated Kinase Deficiency Alters the Autophagic Response During Chronic Myocardial

Dr. Krishna Singh, Biomedical Sciences, East Tennessee State University