

## 2018 Appalachian Student Research Forum Award Winners

### **Affadu-Danful, George**

#### **First Place, Masters Natural Sciences Group A Oral Presentation**

*Immobilization Of Gold Nanoparticles On Nitrided Carbon Fiber Ultramicroelectrodes By Direct Reduction As A Platform For Measuring Electrocatalytic Properties*

Dr. Gregory Bishop, Advisor, Department of Chemistry, East Tennessee State University

### **Alabdulwaheed, Abdulhameed**

#### **First Place, Masters Natural Sciences Group B Poster Presentation**

*3D-Printed Fluidic Devices And Incorporated Graphite Electrodes For Electrochemical Immunoassay Of Biomarker Proteins*

Dr. Gregory Bishop, Advisor, Department of Chemistry, East Tennessee State University

### **Alharbi, Helal**

#### **First Place, Masters Natural Sciences Group A Poster Presentation**

*Synthesis Of Diazonium N-(Perfluoroalkyl) Benzenesulfonimide Zwitterionic Polymers For Proton Exchange Membrane Fuel Cells*

Dr. Hua Mei, Advisor, Department of Chemistry, East Tennessee State University

### **Ameen, Muhammad**

#### **Second Place, Masters Biomedical Sciences Poster Presentation**

*Vitamin B2 Reduces Amyloid-Beta Proteotoxicity And Improves Health In A Caenorhabditis Elegans Alzheimer'S Disease Model*

Dr. Patrick Bradshaw, Advisor, Department of Biomedical Sciences, East Tennessee State University

### **Andrews, Shantaya**

#### **First Place, Masters Natural Sciences Group B Oral Presentation**

*Characterization Of Sip470, A Plant Lipid Transfer Protein, And Its Role In Plant Defense Signaling*

Dr. Dharendra Kumar, Advisor, Department of Biological Sciences, East Tennessee State University

### **Birchfield, Aaron**

#### **Second Place, Masters Natural Sciences Group A Poster Presentation**

*Crystallization And Analysis Of Tag Effects Using A Flavonol Specific Glucosyltransferase From Grapefruit*

Dr. Cecilia McIntosh, Advisor, Department of Chemistry, East Tennessee State University

### **Bishop, Kaelyn**

#### **Second Place, Undergraduate Social & Behavioral Sciences Group B Poster Presentation**

*Perception And Acceptability Of Violence In Video Games, Movies, And News*

Dr. Andrea Clements, Advisor, Department of Psychology, East Tennessee State University

### **Blosser, Peter**

#### **Second Place, Medical Students Social, Behavioral, Biomedical & Health Sciences Group A Poster**

*Differential Diagnosis Of Pan-Uveitis: Behçet'S Disease*

Dr. Tiffany Lasky, Advisor, Department of Surgery, East Tennessee State University

### **Bowles, Alicia**

#### **First Place, Residents & Clinical Fellows Case Studies Group C Poster Presentation**

*Gi Bleed In A Hemodialysis Patient With Calciphylaxis And Paroxysmal Atrial Fibrillation: Should Warfarin Therapy Be Continued?*

Dr. Jennifer Treece, Advisor, Department of Internal Medicine, East Tennessee State University

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### **Bridges, Christopher MD**

#### **Second Place, Residents & Clinical Fellows Case Studies Group A Poster Presentation**

*Overcoming Barriers To End Of Life Planning For Residents In Primary Care*

Dr. Jodi Polaha, Advisor, Department of Family Medicine, East Tennessee State University

### **Carr, Laura**

#### **First Place, Undergraduate Humanities & Education Poster Presentation**

*Cleopatra: Perceptions And Reality*

Dr. Joel Van Amberg, Advisor, Department of History, Tusculum College

### **Chambers, Jessica**

#### **Second Place, Undergraduate Social & Behavioral Sciences Group A Poster Presentation**

*Internalizing Symptoms Associated With Emotional Abuse: An Examination Of Religious Social Support As A Moderating Variable*

Dr. Diana Morelen, Advisor, Department of Psychology, East Tennessee State University

### **Chapman, Rudy**

#### **First Place, Doctoral Biomedical Sciences Poster Presentation**

*Axonal Regrowth Of Olfactory Sensory Neurons After Chemical Ablation With Methimazole*

Dr. Diego Rodriguez-Gil, Advisor, Department of Biomedical Science, East Tennessee State University

### **Cox, Taylor**

#### **First Place, Masters Education & Learning Poster Presentation**

*Promoting Health Education And Literacy In Rural Tennessee: The Go-Packs Pilot Project*

Dr. Anthony DeLucia, Advisor, Department of Surgery, East Tennessee State University

### **Daniels, Jesse**

#### **Second Place, Masters Natural Sciences Group B Oral Presentation**

*Direct And Indirect Effects Of Invasive *Cirsium Arvense* On Pollination In Southern Appalachian Floral Communities.*

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

### **Dempsey, Brian**

#### **First Place, Undergraduate Natural Sciences & Engineering Group A Poster Presentation**

*Small Mammal Mortality Caused By Roadside Containers On A Heavily Trafficked Forest Service Road In The Cherokee National Forest*

Dr. Tom Laughlin, Department of Biology, College of Arts and Sciences, East Tennessee State University

### **Fasanello, Nicholas**

#### **First Place, Undergraduate Social & Behavioral Sciences Group B Poster Presentation**

*Self-Esteem As A Mediator Of Internalized Stigma And Health In Sexual Minority Women*

Dr. Stacey Williams, Advisor, Department of Psychology, East Tennessee State University

### **Gardner, Austin**

#### **Second Place, Masters Pharmacy Poster Presentation**

*Metabolic Targets Of Gnapthalin Mediated Apoptosis In Colon And Pancreatic Cancer Cell Lines*

Dr. Victoria Palau, Advisor, Department of Internal Medicine, East Tennessee State University

### **Garner, Chris**

#### **First Place, Residents & Clinical Fellows Biomedical Sciences Group A Poster Presentation**

*Improving Male Vaccine Uptake For Human Papilloma Virus In A Family Medicine Residency Program*

Dr. Amanda Stoltz, Advisor, Department of Family Medicine, East Tennessee State University

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### Gauck, Megan

#### First Place, Undergraduate Natural Sciences & Engineering Group B Poster Presentation

*Evaluation Of Circadian Regulated Behavior In The Southern Black Widow, Latrodectus Mactans*

Dr. Thomas Jones, Advisor, Department of Biological Sciences, East Tennessee State University

### Grimsley, Christina

#### First Place, Residents & Clinical Fellows Case Studies Group B Poster Presentation

*Case Report: Tension Pneumothorax Complicated By Massive Subcutaneous Emphysema*

Dr. Stephen Blankenship, Advisor, Center for Experiential Learning, East Tennessee State University

### Harris, Joseph

#### First Place, Doctoral Natural Sciences Oral Presentation

*The Impact Of Subsidence On Industrial Complexes In The Lower Mississippi River Industrial Corridor*

Dr. T. Andrew Joyner, Advisor, Department of Geosciences, East Tennessee State University

### Harrison, Matthew

#### Second Place, Masters Natural Sciences Group A Oral Presentation

*Self-Organized Structures: Modeling Polistes Dominula Nest Construction With Simple Rules*

Dr. Christopher Wallace, Advisor, Department of Computing, East Tennessee State University

### Job, Sarah

#### First Place, Masters Education, Social & Behavioral Sciences Group A Oral Presentation

*A Path Analysis Approach To Proximal Minority Stress And Problematic Drinking*

Dr. Stacey Williams, Advisor, Department of Psychology, East Tennessee State University

### Kamran, Beenish

#### First Place, Masters Education, Social & Behavioral Sciences Group B Oral Presentation

*Identifying Motivators And Barriers For Wellness Programs To Inform Recruitment And Retention Of Diabetes Prevention Programs (DPPS)*

Dr. Deborah Slawson, Advisor, Department of Community and Behavioral Health, East Tennessee State University

### Keith, Sydney

#### Second Place, Undergraduate Biomedical Sciences Group B Poster Presentation

*Experimental Protocol For The Production Of Bacterial Expressed Ctrp3*

Dr. Jonathan Peterson, Advisor, Department of Health Sciences, East Tennessee State University

### Ketchem, Shannon

#### First Place, Masters Pharmacy Poster Presentation

*Dopamine Cell Loss Within The Nigrostriatal Pathway Due To Oxidative Stress From Chronic Methylphenidate*

Dr. Brooks Pond, Advisor, Department of Pharmaceutical Sciences, East Tennessee State University

### Khalaf, Rossa

#### First Place, Residents & Clinical Fellows Biomedical Sciences Group B Poster Presentation

*Marginal Zone Lymphoma With Hyper Viscosity Syndrome Responding To Plasmapheresis And Chemo Immunotherapy*

Dr. De Jaishankar, Advisor, Department of Internal Medicine, East Tennessee State University

## 2018 Appalachian Student Research Forum Award Winners

### **Kuku, Olubunmi**

#### **Second Place, Masters Social & Behavioral Sciences Poster Presentation**

*Association Between Depression And Physical Health Among College Adults: The Mediating Roles Of Physical Activity And Diet*

Dr Julia Dodd, Advisor, Department of Psychology, East Tennessee State University

### **LeMay, Carrie**

#### **First Place, Doctoral Social & Behavioral Sciences Poster Presentation**

*The Relationship Between Adverse Childhood Experiences, Mental Health Outcomes, And Polypharmacy Among Psychiatric Inpatients In Secure Forensic Care*

Dr. Jill Stinson, Advisor, Department of Psychology, East Tennessee State University

### **Magno, Melissa**

#### **Second Place, Undergraduate Natural Sciences & Engineering Group B Poster Presentation**

*Spatial Interpolation Of Heavy Metal Concentrations In Soils Of Bumpus Cove, Tn*

Dr. Ingrid Luffman & Dr. Arpita Nandi, Advisors, Department of Geosciences, East Tennessee State University

### **Maguire, Joseph**

#### **First Place, Residents & Clinical Fellows Case Studies Group A Poster Presentation**

*A Rare Case Of Tolosa-Hunt Syndrome*

Dr. Thad Snyder, Advisor, Department of Internal Medicine, East Tennessee State University

### **McKinney, Jessica**

#### **First Place, Doctoral Social & Behavioral Sciences Group A Oral Presentation**

*Self-Compassion And Suicide Risk In Veterans: Serial Effects Of Shame, Guilt, And PTSD*

Dr. Jameson Hirsch, Advisor, Department of Psychology, East Tennessee State University

### **Miller, Brandon**

#### **First Place, Medical Students Social, Behavioral, Biomedical & Health Sciences Group A Poster Presentation**

*Effects Of Podocyte Dysfunction On The Susceptibility To Hypertensive Glomerulosclerosis*

Dr. Aaron Polichnowski, Advisor, Department of Biomedical Science, East Tennessee State University

### **Moka, Nagaishwarya**

#### **First Place, Residents & Clinical Fellows Case Studies Group D Poster Presentation**

*Delta-Tocotrienol And Simvastatin Induces Differential Cytotoxicity And Synergy In Braf Wild-Type Sk-Mel-2 And Mutant Braf Sk-Mel-28 Melanoma Cancer Cells*

Dr. Koyamangalath Krishnan, Advisor, Department of Internal Medicine, East Tennessee State University

### **Mwirigi, Kiriinya**

#### **Second Place, Doctoral Social & Behavioral Sciences Group A Oral Presentation**

*Increasing Fruits And Vegetable Consumption Among Snap Recipients Through An Innovative Prescription Program: Appalachian Farmacy*

Dr. Deborah Slawson, Advisor, Department of Community and Behavioral Health, East Tennessee State University

### **Neighbor, Rebecca**

#### **Second Place, Medical Students Social, Behavioral, Biomedical & Health Sciences Group B Poster**

*Gojoco Trail Awareness*

Dr. Karen Schetzina, Advisor, Department of Pediatrics, East Tennessee State University

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### **Oliver, Joe**

#### **Second Place, Undergraduate Biomedical Sciences Group A Poster Presentation**

*Inhibition Of Focal Adhesion Kinase Promotes Adult Olfactory Stem Cell Self-Renewal And Neuroregeneration Via Ciliary Neurotrophic Factor*

Dr. Cuihong Jia, Advisor, Department of Biomedical Sciences, East Tennessee State University

### **Orimaye, Sylvester**

#### **Second Place, Masters Education, Social & Behavioral Sciences Group B Oral Presentation**

*Association Between Alzheimer'S Disease And Rural Northeast Tennessee Region Between 2013 And 2015*

Dr. Jodi Southerland, Advisor, Department of Community and Behavioral Health, East Tennessee State University

### **Patel, Amit**

#### **Second Place, Residents & Clinical Fellows Biomedical Sciences Group A Poster Presentation**

*Addressing Gaps In Immunization Rates In A Family Medicine Residency Clinic*

Dr. Leigh Johnson, Advisor, Department of Family Medicine, East Tennessee State University

### **Pathak, Asmita**

#### **First Place, Doctoral Biomedical Sciences Oral Presentation**

*C-Reactive Protein Is An Atheroprotective Molecule*

Dr. Alok Agrawal, Advisor, Department of Biomedical Sciences, East Tennessee State University

### **Pugh, Kelley**

#### **First Place, Masters Social & Behavioral Sciences Poster Presentation**

*Self-Forgiveness And Suicide Risk In Veterans: Examining Serial Linkages Of Shame And Interpersonal Needs*

Dr. Jameson Hirsch, Advisor, Department of Psychology, East Tennessee State University

### **Puszkiewicz, Kelcey**

#### **Second Place, Doctoral Social & Behavioral Sciences Poster Presentation**

*Early Childhood Adversity, Socioecological Influences, And Delinquent Behaviors In A Treatment Sample Of Male Adolescents*

Dr. Jill Stinson, Advisor, Department of Psychology, East Tennessee State University

### **Rahimi-Saber, Anahita**

#### **First Place, Medical Students Social, Behavioral, Biomedical & Health Sciences Group B Poster Presentation**

*Transgender Medicine Integrated Grand Rounds: Are Medical Students Receiving Enough Education To Competently Care For Our Patients?*

Dr. Ivy Click, Advisor, Department of Family Medicine, East Tennessee State University

### **Rahman, Mahbubur**

#### **Second Place, Doctoral Natural Sciences Oral Presentation**

*Transient Expression Of Avocado Dgat1 And Pdat1 In N. Benthamiana Leaves*

Dr. Aruna Kilaru, Advisor, Department of Biological Sciences, East Tennessee State University

### **Roden, John III**

#### **Second Place, Undergraduate Natural Sciences & Engineering Group A Poster Presentation**

*Determining The Physiological And Behavioral Methods Of Salinity Tolerance In Corbicula Fluminea*

Dr. Joseph Bidwell, Advisor, Department of Biological Sciences, East Tennessee State University

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### **Rotimi, Oluyemi**

#### **Second Place, Masters Education, Social & Behavioral Sciences Group A Oral Presentation**

*Factors That Affect Early Sexual Initiation In A Sample Of College Students In North-East Tennessee: The Role Of Adverse Childhood Experiences, Economic Hardship, Family Structure And Religiosity*

Dr Mildred Maisonet, Advisor, Department of Biostatistics and Epidemiology, East Tennessee State University

### **Ryan, Chelsea**

#### **First Place, Doctoral Social & Behavioral Sciences Group B Oral Presentation**

*Human Papillomavirus Vaccine Uptake, Knowledge, And Acceptance For Youth: A Systematic Review Of Appalachia*

Dr. Kiana Johnson & Dr. David Wood, Advisors, Department of Pediatrics, East Tennessee State University

### **Scruggs, Kent**

#### **First Place, Masters Biomedical Sciences Poster Presentation**

*Analysis Of Neuroinflammatory Markers In The Btbr T+ Tf/J Mouse Model Of Autism Spectrum Disorder*

Dr. Michelle Chandley, Advisor, Department of Health Sciences, East Tennessee State University

### **Sriramoju, Vindhya M.D.**

#### **Second Place, Residents & Clinical Fellows Biomedical Sciences Group B Poster Presentation**

*Elizabethkingia Meningoseptica Bacteremia Associated With Infective Endocarditis In An Intravenous Drug Abuser*

Dr. Christopher Cook, Advisor, Department of Internal Medicine, East Tennessee State University

### **Stuffle, Derek**

#### **First Place, Masters Biomedical Sciences Oral Presentation**

*A C. Albicans Two Component Pathway Regulates The Cdr4 And Ssu1 Transport Genes Involved In Quorum Sensing And Response To Bacterial Signaling Molecules*

Dr. Michael Kruppa, Advisor, Department of Biomedical Sciences, East Tennessee State University

### **Tanner, Katie**

#### **First Place, Undergraduate Social & Behavioral Sciences Group A Poster Presentation**

*Insomnia And Suicide Risk In Veterans: Conditional Indirect Effects Of Perceived Burdensomeness And Self-Compassion*

Dr. Jameson Hirsch, Advisor, Department of Psychology, East Tennessee State University

### **Tedder, Amanda**

#### **Second Place, Masters Natural Sciences Group B Poster Presentation**

*Impact Of Viviparity On Skeletal Development In A Reproductively Bimodal Squamate Species*

Dr. Rebecca A. Pyles, Advisor, Department of Biological Sciences, East Tennessee State University

### **Thode, Madison**

#### **Second Place, Doctoral Biomedical Sciences Poster Presentation**

*A Comparison Of Word Recognition Performance For Young Adults With Normal Hearing When Listening To Two Speakers*

Dr. Richard Wilson, Advisor, Department of Audiology & Speech Pathology, East Tennessee State University

### **Wanamaker, Salem**

#### **First Place, Undergraduate Biomedical Sciences Group A Poster Presentation**

*Visualizing The Inhibitory Power Of A Novel Protein Against Citrobacter And Enterobacter Biofilms*

Dr. Sean Fox, Advisor, Department of Health Sciences, East Tennessee State University

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### **White, Grayson**

#### **First Place, Undergraduate Biomedical Sciences Group B Poster Presentation**

*The Effects Of Simulated Spaceflight Conditions On The Mucin Lining Of The Mouse Uterine Tube*

Dr. Allan Forsman, Advisor, Department of Health Sciences, East Tennessee State University

### **Yadav, Ruby**

#### **Second Place, Doctoral Social & Behavioral Sciences Group B Oral Presentation**

*Preferences In Timing Of Sex Education Instruction Among Tennessee Sex Education Providers And Etsu College Students*

Dr. Mildred Maisonet, Advisor, Department of Biostatistics and Epidemiology, East Tennessee State University

### **Zaver, Himesh**

#### **Second Place, Doctoral Biomedical Sciences Oral Presentation**

*Ledipasvir/Sofosbuvir Induced Nephrotic Syndrome: A Challenging Case Of Hepatitis C Management*

Dr. Chakradhar Reddy, Advisor, Department of Internal Medicine, East Tennessee State University