2018 Appalachian Student Research Forum

April 4 - 5, 2018

Millennium Centre • Johnson City, TN
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Appendix A: Appalachian Student Research Forum
Presenters List ............................................................. A-1
About the ASRF

The Forum is an annual event in which undergraduate, graduate, medical and pharmacy students as well as post-doctoral fellows and medical residents present their research in a formal setting. The Forum is open to students from all colleges and universities within the southern Appalachian region.

The Forum hosts both poster and oral presentations. The poster presentation session is open to all participants (undergraduate, graduate and medical and pharmacy students, medical residents and post-doctoral fellows). Graduate, medical and pharmacy students, medical residents and post-doctoral fellows only are eligible to participate in the oral sessions. Participation is limited only by time and space constraints.

Throughout its history, East Tennessee State University has placed emphasis on research and the mission to conduct scholarship that improves the human condition. ETSU held its first student research forum on March 8, 1985 with 19 students participating. What began as program only for the College of Medicine has expanded to become a major region-wide event which attracts over 200 undergraduate, graduate, pharmacy and medical student, resident physician, and post-doctoral fellow participants.

A task force of ETSU faculty members oversees this annual event. Students from all fields of study have presented their work at the Forum. Many of these students have gone on to present their research findings at regional, state, and national meetings in their field.

The Appalachian Student Research Forum has brought several nationally recognized individuals to campus as keynote speakers for the event. Noted presenters include Dr. Joycelyn Elders, former U.S. Surgeon General; Dr. Michael Tucker, a leading researcher in in vitro fertilization; former NASA astronaut Dr. Rhea Seddon; and Dr. Ronald C. Desrosiers, who gained international recognition when he discovered that it is possible to vaccinate monkeys against the AIDS virus.

To learn about past Appalachian Student Research Forum events dating back to 2004, visit [http://www.etsu.edu/studentresearch/aboutasrf.php](http://www.etsu.edu/studentresearch/aboutasrf.php).
## Event Schedule – Day 1

### Wednesday, April 4, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Oral Presentations</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am – 3:15pm</td>
<td><strong>Oral Presentations</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Doctoral Students</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biomedical Science</td>
<td>9:00am – 11:00am</td>
<td>Ripshin Mtn. Room 130</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>1:00pm – 3:00 pm</td>
<td>Ripshin Mtn. Room 130</td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences – A</td>
<td>9:00am – 11:15am</td>
<td>Auditorium Room 137B</td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences – B</td>
<td>1:00pm – 3:15pm</td>
<td>Auditorium Room 137B</td>
</tr>
<tr>
<td><strong>Masters Students</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biomedical Science</td>
<td>11:00am – 12:15pm</td>
<td>Ripshin Mtn. Room 130</td>
</tr>
<tr>
<td>Education, Social &amp; Behavioral Sciences - A</td>
<td>9:00am – 1:00pm</td>
<td>Auditorium Room 137A</td>
</tr>
<tr>
<td>Education, Social &amp; Behavioral Sciences - B</td>
<td>1:00pm – 3:00pm</td>
<td>Auditorium Room 137A</td>
</tr>
<tr>
<td>Natural Sciences – A</td>
<td>9:00am – 11:00am</td>
<td>Bays Mtn. Room 125</td>
</tr>
<tr>
<td>Natural Sciences - B</td>
<td>1:00pm – 3:00pm</td>
<td>Bays Mtn. Room 125</td>
</tr>
<tr>
<td><strong>12:00pm – 4:30pm</strong></td>
<td><strong>Poster Check-in &amp; Set-up</strong></td>
<td><strong>Ballroom, 2nd Floor</strong></td>
</tr>
</tbody>
</table>
## Event Schedule – Day 2

### Thursday, April 5, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00am – 2:00pm</td>
<td>Poster Viewing</td>
<td>2&lt;sup&gt;nd&lt;/sup&gt; Floor Ballroom</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WhiteTop Mtn Room 225</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt. Mitchell Room 220</td>
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<tr>
<td></td>
<td></td>
<td>Clinch Mtn Room 215</td>
</tr>
<tr>
<td>8:30am – 12:00pm</td>
<td>Poster Judging</td>
<td>2&lt;sup&gt;nd&lt;/sup&gt; Floor Ballroom</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WhiteTop Mtn Room 225</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt. Mitchell Room 220</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clinch Mtn Room 215</td>
</tr>
<tr>
<td>12:00pm – 1:00pm</td>
<td>Lunch (ticket required)</td>
<td>1&lt;sup&gt;st&lt;/sup&gt; Floor Atrium</td>
</tr>
<tr>
<td>1:00pm – 2:00pm</td>
<td>Keynote Address</td>
<td>Auditorium Room 137B</td>
</tr>
<tr>
<td>2:15 pm – 3:00 pm</td>
<td>Awards Ceremony</td>
<td>Auditorium Room 137B</td>
</tr>
</tbody>
</table>
Dr. Richard Ignace is a professor in the Department of Physics and Astronomy and the Director of Undergraduate Research and Creative Activities at East Tennessee State University. His research interests include the theoretical, from radiative transfer, magnetic fields, to exoplanets, and the observational, including x-ray, ultraviolet, infrared, and radio astronomy. In his role as Director of the Office of Undergraduate Research & Creative Activities he oversees student-faculty collaborative grants, summer fellowships, travel grants, and the annual Boland Undergraduate Research Symposium.

Keynote Address Abstract:
“Mapping the Environments of Massive Stars: A chapter in the story of the interrelated cosmos"
ASRF Task Force

Dr. Aruna Kilaru, Task Force Chair
Biological Sciences

Dr. Karin Bartoszuk
School of Graduate Studies

Ms. Dinah DeFord
McNair Program

Ms. Wendy Eckert
Research and Sponsored Programs

Dr. Scott Honeycutt
Literature and Language

Dr. Richard Ignace
Undergraduate Research and Physics & Astronomy

Dr. Dhirendra Kumar
Biological Sciences

Dr. Mike Ramsey
Sports, Exercise, Recreation and Kinesiology

Dr. Ranjan Chakraborty
Health Sciences

Dr. William R. Duncan
Vice Provost for Research

Dr. Lee Glenn
College of Nursing

Dr. David Hurley
Pharmaceutical Sciences

Dr. John King
Communication

Dr. Cecilia McIntosh
School of Graduate Studies and Biological Sciences

ASRF Logistical Team
Office of Research & Sponsored Programs

Ms. Angela Clark
Ms. Cynthia Hardin
Ms. Lindsay Keitzer
Mr. Morgan Taylor
ASRF Judges

Many thanks to the following faculty and staff members who are giving their time and effort to serve as Judges for the poster and oral competitions.

**POSTER PRESENTATIONS**

Arsham Alamian  Greta Marek  Stacy Brown  Kate Beatty  Gerald Deehan  Aruna Kilaru
Karin Bartoszuk  Catherine McCusker  Brittany Butler  Andy Clark  William R. Duncan  Hana Mikdachi
Eric Beaumont  Pamela Mims  Andrea Clements  Myra Clark  Ivy Click  Alex Sargsyan
Patrick Bradshaw  Darrell Moore  Karen Cummings-Lilly  Sarah Chroust  Michael Kruppa
Candace Bright  Diana Morelen  Suman Dalal  Donna Cherry  Lisa Ousley
Russell Brown  Tammy Ozment  Mohamed Elgazzar  Michelle Chandley  Jodi Polaha
Regenia Campbell  Jodi Polaha  Allan Forsman  Alyson Chroust  Aaron Polichnowski
Michelle Chandle  Brooks Pond  Michael Kruppa  Karen Cummings-Lilly  Heather Dye
Donna Cherry  Heather Dye  Gina Deehan  Alyson Chroust  Suman Dalal
Alyson Chroust  Suman Dalal  William R. Duncan  Karen Cummings-Lilly  Eileen Ernenwein
Karen Cummings-Lilly  Eileen Ernenwein  Arunadee Pachuta  Suman Dalal  Patty Frey
Suman Dalal  Jim Fox  Alissa Lange  Donna Cherry  Alyson Chroust
Heather Dye  Donna Cherry  Sally Sargent  Lopes  Aline  Dehann  Regenia Campbell
Eileen Ernenwein  Arsham Alamian  Karen Cummings-Lilly  Karen Cummings-Lilly  Donna Cherry
Jim Fox  Michelle Chandle  Karen Cummings-Lilly  Donna Cherry  Donna Cherry
Retha Gentry  Suman Dalal  Michelle Chandle  Karen Cummings-Lilly  Donna Cherry
Jean Hemphill  Suman Dalal  Michelle Chandle  Karen Cummings-Lilly  Donna Cherry
Yong Jiang  Suman Dalal  Michelle Chandle  Karen Cummings-Lilly  Donna Cherry
Andrew Joyner  Suman Dalal  Michelle Chandle  Karen Cummings-Lilly  Donna Cherry
Michael Kruppa  Suman Dalal  Michelle Chandle  Karen Cummings-Lilly  Donna Cherry
Michael Kruppa  Suman Dalal  Michelle Chandle  Karen Cummings-Lilly  Donna Cherry
Alissa Lange  Suman Dalal  Michelle Chandle  Karen Cummings-Lilly  Donna Cherry
Janice Lazear  Suman Dalal  Michelle Chandle  Karen Cummings-Lilly  Donna Cherry
Ingrid Luffman  Suman Dalal  Michelle Chandle  Karen Cummings-Lilly  Donna Cherry

**ORAL PRESENTATIONS**

Stacy Brown  Greta Marek  Stacy Brown  Kate Beatty  Gerald Deehan  Aruna Kilaru
Brittany Butler  Catherine McCusker  William R. Duncan  Andy Clark  William R. Duncan  Hana Mikdachi
Andrea Clements  Pamela Mims  Gary Henson  Myra Clark  Gary Henson  Alex Sargsyan
Ivy Click  Darrell Moore  Jodi Polaha  Andy Clark  Jodi Polaha
Karen Cummings-Lilly  Diana Morelen  Aaron Polichnowski  Myra Clark  Aaron Polichnowski
Suman Dalal  Lisa Ousley  Brooks Pond  Jodi Polaha  Michael Kruppa
Mohamed Elgazzar  Tammy Ozment  Jodi Polaha  Jodi Polaha  Michael Kruppa
Allan Forsman  Victoria Pope  Diego Rodriguez-Gil  Jodi Polaha  Michael Kruppa
Michael Kruppa  Antonio Rusinol  Antonio Rusinol  Jodi Polaha  Michael Kruppa
Alissa Lange  Dane Scott  Dane Scott  Jodi Polaha  Michael Kruppa
Katherine Silva  Candice Short  Candice Short  Jodi Polaha  Michael Kruppa
Sanjay Singh  Katherine Silva  Katherine Silva  Jodi Polaha  Michael Kruppa
Douglas Thewke  Krishna Singh  Krishna Singh  Jodi Polaha  Michael Kruppa
Sanjay Singh  Krishna Singh  Krishna Singh  Jodi Polaha  Michael Kruppa
Carol Trivette  Douglas Thewke  Douglas Thewke  Jodi Polaha  Michael Kruppa
Moin Uddin  Douglas Thewke  Douglas Thewke  Jodi Polaha  Michael Kruppa
Qian Xie  Douglas Thewke  Douglas Thewke  Jodi Polaha  Michael Kruppa
Liang Wang  Douglas Thewke  Douglas Thewke  Jodi Polaha  Michael Kruppa

**Alternate Judges**

Kate Beatty  Gerald Deehan  Aruna Kilaru
Andy Clark  William R. Duncan  Hana Mikdachi
Myra Clark  Gary Henson  Alex Sargsyan
ASRF 2018 Partners

Gold

The East Tennessee State University Research Foundation

Silver

The Center for Community Outreach and Applied Research
The Office of the President of East Tennessee State

Bronze

Sarstedt Inc.

East Tennessee State University’s:

- Office of the VP for Academic Affairs
- Office of the VP for Student Affairs
- Center for Nursing Outreach
- Continuing Studies and Academic Outreach
- Dept of Biological Sciences
- Dept of Biomedical Sciences
- Dept of Chemistry
- Dept of Geosciences
- Dept of Internal Medicine
- Dept of Pediatrics
- Dept of Psychology
- The Graduate School
- The Honors College
- Office of the Dean for Public Health
- Office of the Dean of the College of Arts & Sciences
- Office of the Dean of the College of Education
- Office of the VP for Health Affairs
- SERK
- The Sherrod Library
ASRF 2018 Contributors

- College of Business and Technology
- College of Pharmacy
- Dept of Audiology & Speech-Language Pathology
- Dept of Biostatistics and Epidemiology
- Dept of Communication & Performance
- Dept of Community & Behavioral Health
- Dept of Computing
- Dept of Engineering, Tech, Surveying & Dig. Media
- Dept of Environmental Health
- Dept of Health Sciences
- Dept of Health Services Management and Policy
- Dept of Literature & Language
- Dept of Obstetrics & Gynecology
- Dept of Pharmaceutical Sciences
- Dept of Pharmacy Practice
- Dept of Philosophy & Humanities
- Dept of Physics & Astronomy
- Dept of Sociology & Anthropology
- Dept of Surgery
- The McNair Program
- Office of the Dean of the College of Medicine
- Office of Equity and Diversity
- The Roan Scholars Leadership Program

Special Thanks
to the Students of the McNair Program
In Honor of Ten Years of Service to the Appalachian Student Research Forum
2007 - 2017

In memory of
Loretta “Carole” Thomason
1961 - 2017
APPENDIX A: 2018 Appalachian Student Research Forum

Oral Presentations

Natural Sciences & Engineering

Post-doctoral Fellow
Shinde, Suhas
https://dc.etsu.edu/asrf/2018/schedule/111
Ripshin Mtn. Room 130
4/4/2018 1:40 PM
Novel Polyunsaturated N-Acylethanolamines And Their Implications In Physcomitrella Patens

Master's Student

Affadu-Danful, George
https://dc.etsu.edu/asrf/2018/schedule/13
Bays Mtn. Room 125
4/4/2018 10:40 AM
Immobilization Of Gold Nanoparticles On Nitrided Carbon Fiber
Ultramicroelectrodes By Direct Reduction As A Platform For Measuring Electrocatalytic Properties.

Albright, Mark
https://dc.etsu.edu/asrf/2018/schedule/36
Bays Mtn. Room 125
4/4/2018 1:40 PM
Dietary Fatty Acids And Temperature Effects On The Reproduction Of Daphnia Magna

Coggins, Bret L.
https://dc.etsu.edu/asrf/2018/schedule/108
Bays Mtn. Room 125
4/4/2018 2:40 PM
Escaping The Arrhenius Tyranny: Metabolic Compensation During Exposure To High Temperature In Daphnia

Daniels, Jesse
https://dc.etsu.edu/asrf/2018/schedule/124
Bays Mtn. Room 125
4/4/2018 2:20 PM
Direct And Indirect Effects Of Invasive Cirsium Arvense On Pollination In Southern Appalachian Floral Communities.

Grant, Annie
https://dc.etsu.edu/asrf/2018/schedule/115
Bays Mtn. Room 125
4/4/2018 9:40 AM
Is Water Quality In Boone Lake A Dam Problem? An Assessment Of Water Quality Pre- And Post- Drawdown

Harrison, Matthew
https://dc.etsu.edu/asrf/2018/schedule/93
Bays Mtn. Room 125
4/4/2018 10:00 AM
Self-Organized Structures: Modeling Polistes Dominula Nest Construction With Simple Rules
APPENDIX A: 2018 Appalachian Student Research Forum

Lohani, Saroj Chandra
https://dc.etsu.edu/asrf/2018/schedule/78
Bays Mtn. Room 125
4/4/2018 2:00 PM  
*Sip68, A Glucosyltransferase Protein And Its Role In Plant Defense Mechanism*

Neequaye, Theophilus
https://dc.etsu.edu/asrf/2018/schedule/12
Bays Mtn. Room 125
4/4/2018 10:20 AM  
*Investigations Of Pre And Post Treatment Protocols In The Fabrication Of Carbon Fiber Ultramicro- And Nanoelectrodes*

Reeves, Ashleigh
https://dc.etsu.edu/asrf/2018/schedule/25
Bays Mtn. Room 125
4/4/2018 9:20 AM  
*Resident Stakeholder Perceptions Of Lava Flow Hazard Diversion Strategies And Protective Measures For Infrastructure And Commercial And Private Property On Kīlauea And Mauna Loa Volcanoes, Hawai‘I*

Shrestha, Sujan
https://dc.etsu.edu/asrf/2018/schedule/152
Bays Mtn. Room 125
4/4/2018 1:00 PM  
*Biochemical Characterization Of Tomato Fatty Acid Amide Hydrolase*

Andrews, Shantaya B.
https://dc.etsu.edu/asrf/2018/schedule/44
Bays Mtn. Room 125
4/4/2018 1:20 PM  
*Characterization Of Sip470, A Plant Lipid Transfer Protein, And Its Role In Plant Defense Signaling*

Adesoba, Taiwo P.
https://dc.etsu.edu/asrf/2018/schedule/38
Bays Mtn. Room 125
4/4/2018 9:00 AM  
*Frequency And Intensity Of Heat Waves In East Tennessee: Measurements Using Various Heat Wave Definitions*

Doctoral Student

Chand Thakuri, Bal Krishna
https://dc.etsu.edu/asrf/2018/schedule/208
Ripshin Mtn. Room 130
4/4/2018 1:00 PM  
*Sir2 Deacetylase Enzyme And Its Possible Role In Pathogen Infection*

Haq, Imdadul MD
https://dc.etsu.edu/asrf/2018/schedule/199
Ripshin Mtn. Room 130
4/4/2018 1:20 PM  
*Fatty Acid Amide Hydrolase In Nae Metabolic Pathway In Physcomitrella Patens*

Harris, Joseph B.
https://dc.etsu.edu/asrf/2018/schedule/40
Ripshin Mtn. Room 130
4/4/2018 2:20 PM  
*The Impact Of Subsidence On Industrial Complexes In The Lower Mississippi River Industrial Corridor*
APPENDIX A: 2018 Appalachian Student Research Forum

Kusi, Joseph
Ripshin Mtn. Room 130
4/4/2018 2:40 PM Silver Nanoparticles: Emerging Environmental Contaminants In The Aquatic System

Rahman, Md Mahbubur
https://dc.etsu.edu/asrf/2018/schedule/8
Ripshin Mtn. Room 130
4/4/2018 2:00 PM Transient Expression Of Avocado Dgat1 And Pdat1 In N. Benthamiana Leaves

Biomedical & Health Sciences

Medical Resident or Clinical Fellow
Miller, Rachel MD
https://dc.etsu.edu/asrf/2018/schedule/133
Ripshin Mtn. Room 130
4/4/2018 10:40 AM Virulent Bacteria In Appalachian Tennessee Waters

Medical Student
Bowers, Hannah E.
https://dc.etsu.edu/asrf/2018/schedule/98
Ripshin Mtn. Room 130
4/4/2018 10:00 AM The Effects Of Estrogen-Induced Stromal Cell Effectors, Osteopontin And Vimentin, On Chlamydia Infections In A Non-Polarized Cell Culture Model

Zaver, Himesh
https://dc.etsu.edu/asrf/2018/schedule/80
Ripshin Mtn. Room 130

Master's Student
Ajani, Iretioluwa
https://dc.etsu.edu/asrf/2018/schedule/125
Ripshin Mtn. Room 130
4/4/2018 12:00 PM Association Between Smoking And Functional Outcome In Acute Ischemic Stroke Population Treated With Tissue Plasminogen Activator

Fapo, Olushola
https://dc.etsu.edu/asrf/2018/schedule/74
Auditorium Room 137A
4/4/2018 2:00 PM Assessing And Improving Maternal Child Health Behaviors With Readnplay For A Bright Future

Hughes, Abigail
https://dc.etsu.edu/asrf/2018/schedule/142
Ripshin Mtn. Room 130
4/4/2018 11:00 AM Identification Of Alg1 Regulator, Pa2771, And Effects On Motility And Virulence In P. Aeruginosa
APPENDIX A: 2018 Appalachian Student Research Forum

**Miller, Ian**
https://dc.etsu.edu/asrf/2018/schedule/76  
Ripshin Mtn. Room 130  
4/4/2018 11:40 AM  
*A Stem-Loop Secondary Structure Influencing Expression Of The Post-Transcriptional Regulator, Rsma, In Pseudomonas Aeruginosa*

**Nwabueze, Christian**
https://dc.etsu.edu/asrf/2018/schedule/16  
Auditorium Room 137A  
4/4/2018 10:40 AM  
*Injurious Suicide Attempts Among Middle And High School Students*

**Stuffle, Derek A**
Ripshin Mtn. Room 130  
4/4/2018 11:20 AM  
*A C. Albicans Two Component Pathway Regulates The Cdr4 And Ssu1 Transport Genes Involved In Quorum Sensing And Response To Bacterial Signaling Molecules.*

**Doctoral Student**

**Jones, Rowdy**
https://dc.etsu.edu/asrf/2018/schedule/123  
Ripshin Mtn. Room 130  
4/4/2018 9:40 AM  
*Striking Differences In Uromodulin Excretion And Expression, Salt-Sensitive Hypertension, And Renal Injury In Dahl Ss Vs. Bn And Ss.Bn1 Consomic Rats*

**Pathak, Asmita**
https://dc.etsu.edu/asrf/2018/schedule/139  
Ripshin Mtn. Room 130  
4/4/2018 9:20 AM  
*C-Reactive Protein Is An Atheroprotective Molecule*

**Ngwa, Donald N.**
https://dc.etsu.edu/asrf/2018/schedule/136  
Ripshin Mtn. Room 130  
4/4/2018 9:00 AM  
*C-Reactive Protein, Antibiotics, And Treatment Of Pneumococcal Infection In Mice*

**Education & Social, Behavioral Sciences**

**Medical Student**

**Ryan, Chelsea N.**
https://dc.etsu.edu/asrf/2018/schedule/15  
Auditorium Room 137B  
4/4/2018 2:40 PM  
*Human Papillomavirus Vaccine Uptake, Knowledge, And Acceptance For Youth: A Systematic Review Of Appalachia*

**Schultz, Abby**
https://dc.etsu.edu/asrf/2018/schedule/112  
Auditorium Room 137B  
4/4/2018 10:40 AM  
*Knowledge, Attitudes And Practices Of East Tennessee Medical Providers Towards Transgender Patients*
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Date</th>
<th>Time</th>
<th>Room</th>
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<tbody>
<tr>
<td>Falodun, Ayotola</td>
<td>Association Between Screen Time And High-Risk Sexual Behaviors Among U.S High School Students</td>
<td>4/4/2018</td>
<td>2:20 PM</td>
<td>Auditorium Room 137A</td>
</tr>
<tr>
<td>James, Titilayo</td>
<td>National Burden Of Childhood Asthma Hospitalizations In The United States: Analysis Of The 2012 Kids’ Inpatient Database</td>
<td>4/4/2018</td>
<td>1:40 PM</td>
<td>Auditorium Room 137A</td>
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<tr>
<td>Job, Sarah A.</td>
<td>A Path Analysis Approach To Proximal Minority Stress And Problematic Drinking</td>
<td>4/4/2018</td>
<td>10:00 AM</td>
<td>Auditorium Room 137A</td>
</tr>
<tr>
<td>Kamran, Beenish</td>
<td>Identifying Motivators And Barriers For Wellness Programs To Inform Recruitment And Retention Of Diabetes Prevention Programs (Dpps)</td>
<td>4/4/2018</td>
<td>1:20 PM</td>
<td>Auditorium Room 137A</td>
</tr>
<tr>
<td>Kompella, Sindura</td>
<td>Behavioral Correlates For Quitting Opioids Among Opioid-Dependent Pregnant And Non-Pregnant Women Of Childbearing Age In Rural Appalachia</td>
<td>4/4/2018</td>
<td>9:40 AM</td>
<td>Auditorium Room 137A</td>
</tr>
<tr>
<td>Newell, Jessica</td>
<td>Jane Dulaney Hilbert: Appalachian Aviator</td>
<td>4/4/2018</td>
<td>9:00 AM</td>
<td>Auditorium Room 137A</td>
</tr>
<tr>
<td>Orimaye, Sylvester</td>
<td>Association Between Alzheimer’S Disease And Rural Northeast Tennessee Region Between 2013 And 2015</td>
<td>4/4/2018</td>
<td>1:00 PM</td>
<td>Auditorium Room 137A</td>
</tr>
</tbody>
</table>
APPENDIX A: 2018 Appalachian Student Research Forum

Rotimi, Oluyemi R.
https://dc.etsu.edu/asrf/2018/schedule/59
Auditorium Room 137A
4/4/2018 10:20 AM  
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.

Uyamasi, Kido
https://dc.etsu.edu/asrf/2018/schedule/23
Auditorium Room 137A
4/4/2018 2:40 PM  
Associations Between Family And Parental Factors And Childhood Obesity

Doctoral Student

Clingensmith, Rachel M.
https://dc.etsu.edu/asrf/2018/schedule/193
Auditorium Room 137B
4/4/2018 1:00 PM  
Link Between Parenting Style And Offspring Empathy As Mediated By A Relationship Of Familial Emotional Climate And Emotional Regulation

Dreves, Parker A.
https://dc.etsu.edu/asrf/2018/schedule/107
Auditorium Room 137B
4/4/2018 10:00 AM  
Thinking Into The Future: Motivational Consequences Of Time Perspective

Eisenbrandt, Lydia
https://dc.etsu.edu/asrf/2018/schedule/129
Auditorium Room 137B
4/4/2018 9:20 AM  
Adolescents In Residential Care With Major Mental Illness

Gretak, Alyssa P.
https://dc.etsu.edu/asrf/2018/schedule/172
Auditorium Room 137B
4/4/2018 9:40 AM  
Straight From Clinicians’ Mouths: A Qualitative Exploration Of Barriers To Rural Reentry

Loudermilk, Elaine
Auditorium Room 137B
4/4/2018 1:20 PM  
Impact Of Adverse Childhood Experiences On Hiv Risk Behaviors Using A Nationally Representative Sample From 2011 And 2012

Mauck, Erin E.
https://dc.etsu.edu/asrf/2018/schedule/26
Auditorium Room 137B
4/4/2018 10:20 AM  
Oregon’S Death With Dignity Act: An Evidenced-Based Approach To Improving End-Of-Life Healthcare In Tennessee

Mckinney, Jessica
https://dc.etsu.edu/asrf/2018/schedule/92
Auditorium Room 137B
4/4/2018 9:00 AM  
Self-Compassion And Suicide Risk In Veterans: Serial Effects Of Shame, Guilt, And Ptsd
APPENDIX A: 2018 Appalachian Student Research Forum

Mwirigi, Kiriinya
https://dc.etsu.edu/asrf/2018/schedule/213
Auditorium Room 137B
4/4/2018 11:00 AM  Increasing Fruits And Vegetable Consumption Among Snap Recipients Through An Innovative Prescription Program: Appalachian Farmacy

Otwell, Rebecca
https://dc.etsu.edu/asrf/2018/schedule/79
Auditorium Room 137B
4/4/2018 1:40 PM  Mom Power: Replanting The Seed

Peluso, Anthony
https://dc.etsu.edu/asrf/2018/schedule/145
Auditorium Room 137B
4/4/2018 2:20 PM  Dual Method Use In A Sample Of College-Aged Women

Yadav, Ruby
https://dc.etsu.edu/asrf/2018/schedule/57
Auditorium Room 137B
4/4/2018 2:00 PM  Preferences In Timing Of Sex Education Instruction Among Tennessee Sex Education Providers And Etsu College Students
# APPENDIX A: 2018 Appalachian Student Research Forum

## Poster Presentations

### Biomedical Case Study

<table>
<thead>
<tr>
<th>Medical Resident or Clinical Fellow</th>
<th>Title</th>
<th>Location</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alawoki, Mariam</td>
<td>Angioimmunoblastic T-Cell Lymphoma, A Rare Disease Causing Recurrent Chylothorax.</td>
<td>Clinch Mtn. Room 215</td>
<td>4/5/2018 8:00 AM</td>
</tr>
<tr>
<td>Anibal, Brittany</td>
<td>Streptococcus Pneumoniae Bacteremia In A Late Preterm Infant</td>
<td>Clinch Mtn. Room 215</td>
<td>4/5/2018 8:00 AM</td>
</tr>
<tr>
<td>Bridges, Christopher MD</td>
<td>Overcoming Barriers To End Of Life Planning For Residents In Primary Care</td>
<td>Clinch Mtn. Room 215</td>
<td>4/5/2018 8:00 AM</td>
</tr>
<tr>
<td>Kanaa, Majd</td>
<td>Lower Extremity Pain And Swelling As An Unusual Presentation Of Metastatic Esophageal Adenocarcinoma</td>
<td>Clinch Mtn. Room 215</td>
<td>4/5/2018 8:00 AM</td>
</tr>
<tr>
<td>Khalid, Muhammad</td>
<td>Complete Pacemaker Lead Fracture After A Theme Park Ride</td>
<td>Clinch Mtn. Room 215</td>
<td>4/5/2018 8:00 AM</td>
</tr>
<tr>
<td>Luo, Alice</td>
<td>Peeling Away The Layers To Anemia</td>
<td>Clinch Mtn. Room 215</td>
<td>4/5/2018 8:00 AM</td>
</tr>
<tr>
<td>Maguire, Joseph</td>
<td>A Rare Case Of Tolosa-Hunt Syndrome</td>
<td>Clinch Mtn. Room 215</td>
<td>4/5/2018 8:00 AM</td>
</tr>
<tr>
<td>Moka, Nagaishwarya</td>
<td>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</td>
<td>Clinch Mtn. Room 215</td>
<td>4/5/2018 8:00 AM</td>
</tr>
<tr>
<td>Murtaza, Ghulam</td>
<td>Pancreatic Pseudocyst Complicated By Hemorrhage Into The Peritoneal Cavity And Spleen</td>
<td>Clinch Mtn. Room 215</td>
<td>4/5/2018 8:00 AM</td>
</tr>
</tbody>
</table>

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*Links to corresponding schedules are provided for each presenter.*
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Panta, Utsab R.
https://dc.etsu.edu/asrf/2018/schedule/170
Clinch Mtn. Room 215
4/5/2018 8:00 AM
Pantoea Agglomerans Bacteremia: A Rare Case Of Spontaneous Human Infection By A Plant Pathogen In An Immunocompromised Host.

Rao, Nandita S.
https://dc.etsu.edu/asrf/2018/schedule/138
Clinch Mtn. Room 215
4/5/2018 8:00 AM
Ischemic Colitis As A Result Of Abdominal Aortic Aneurysmorrhaphy

Singh, Kanwardeep
https://dc.etsu.edu/asrf/2018/schedule/77
Clinch Mtn. Room 215
4/5/2018 8:00 AM
A Case Of Progressive Glomerulonephritis With Monoclonal Immunoglobulin Lambda Light Chain Deposition (Lcdd)

Tawadros, Fady
https://dc.etsu.edu/asrf/2018/schedule/75
Clinch Mtn. Room 215
4/5/2018 8:00 AM
Systemic Mastocytosis With Associated Cmml

Vedantam, Venkata S.H.
https://dc.etsu.edu/asrf/2018/schedule/49
Clinch Mtn. Room 215
4/5/2018 8:00 AM
Vitamin B12 Deficiency Anemia-Associated Malignancy Accelerated By Supplementation

Finniss, Mathew C. MD
https://dc.etsu.edu/asrf/2018/schedule/179
Clinch Mtn. Room 215
4/5/2018 8:00 AM
Sumatriptan Induced Coronary Vasospasm

Medical Student

Bowles, Alicia
https://dc.etsu.edu/asrf/2018/schedule/147
Clinch Mtn. Room 215
4/5/2018 8:00 AM
Gi Bleed In A Hemodialysis Patient With Calciphylaxis And Paroxysmal Atrial Fibrillation: Should Warfarin Therapy Be Continued?

Carey, Andrew J
https://dc.etsu.edu/asrf/2018/schedule/140
Clinch Mtn. Room 215
4/5/2018 8:00 AM
A Classic Presentation Of Infective Endocarditis

Grimsley, Christina
https://dc.etsu.edu/asrf/2018/schedule/113
Clinch Mtn. Room 215
4/5/2018 8:00 AM
Case Report: Tension Pneumothorax Complicated By Massive Subcutaneous Emphysema
**APPENDIX A: 2018 Appalachian Student Research Forum**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Location</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obeng, George</td>
<td>Therapeutic Misadventure With A Beta Blocker During A Thyroid Storm In An Undiagnosed Hyperthyroid Patient.</td>
<td>Clinch Mtn. Room 215</td>
<td>4/5/2018 8:00 AM</td>
</tr>
<tr>
<td>Simon, Remil BS</td>
<td>Treatment Of Cmv Vitritis In A Preterm Newborn</td>
<td>Clinch Mtn. Room 215</td>
<td>4/5/2018 8:00 AM</td>
</tr>
<tr>
<td>Wilhoite, David</td>
<td>Life Threatening Gi Bleeding From Stomal Varices Managed By Tips And Amplatzer Plug Embolization</td>
<td>Clinch Mtn. Room 215</td>
<td>4/5/2018 8:00 AM</td>
</tr>
</tbody>
</table>

**Humanities & Education**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Location</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carr, Laura</td>
<td>Cleopatra: Perceptions And Reality</td>
<td>Ballroom</td>
<td>4/5/2018 8:00 AM</td>
</tr>
<tr>
<td>Dinsmore, Kimberly</td>
<td>Factor And Cluster Analysis Of Learning Orientation Questionnaire</td>
<td>Ballroom</td>
<td>4/5/2018 8:00 AM</td>
</tr>
<tr>
<td>Gilmer, Dustin</td>
<td>Factors That Influence Success In Research Funding A Quantitative Study</td>
<td>Ballroom</td>
<td>4/5/2018 8:00 AM</td>
</tr>
<tr>
<td>Voiles, Rebekah</td>
<td>Greed And Parrots: Examining The Emergence Of Pirate Tropes In Treasure Island</td>
<td>Ballroom</td>
<td>4/5/2018 8:00 AM</td>
</tr>
</tbody>
</table>

**Natural Sciences & Engineering**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Location</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anderson, Victoria</td>
<td>Geostatistical Approach To Delineate Wetland Boundaries In The Cutshaw Bog, Tennessee</td>
<td>Ballroom</td>
<td>4/5/2018 8:00 AM</td>
</tr>
</tbody>
</table>
APPENDIX A: 2018 Appalachian Student Research Forum

Cox, Isaiah
https://dc.etsu.edu/asrf/2018/schedule/100
Ballroom
4/5/2018 8:00 AM  Multi-Wavelength Statistics Of Clumpy Galaxies

Dempsey, Brian
https://dc.etsu.edu/asrf/2018/schedule/207
Ballroom
4/5/2018 8:00 AM  Small Mammal Mortality Caused By Roadside Containers On A Heavily Trafficed Forest Service Road in The Cherokee National Forest

Dennis, Taylor
https://dc.etsu.edu/asrf/2018/schedule/209
Ballroom
4/5/2018 8:00 AM  Clumps And Clusters In Ring Galaxies

Dunn, Brianne
https://dc.etsu.edu/asrf/2018/schedule/180
Ballroom
4/5/2018 8:00 AM  Hot, Cold, And Warm Interstellar Gas In Galaxy Mergers

Gauck, Megan
https://dc.etsu.edu/asrf/2018/schedule/110
Ballroom
4/5/2018 8:00 AM  Evaluation Of Circadian Regulated Behavior In The Southern Black Widow, Latrodectus Mactans

Magno, Macon
https://dc.etsu.edu/asrf/2018/schedule/150
Ballroom
4/5/2018 8:00 AM  A Study Of The H-Alpha Emission Line Shape In Beta Lyrae

Magno, Melissa A.
https://dc.etsu.edu/asrf/2018/schedule/126
Ballroom
4/5/2018 8:00 AM  Spatial Interpolation Of Heavy Metal Concentrations In Soils Of Bumpus Cove, Tn

Mcconnell, Nicholas
https://dc.etsu.edu/asrf/2018/schedule/137
Ballroom
4/5/2018 8:00 AM  Time-Lapse Monitoring Of Sidewall Mass-Wasting Events In A Northeast Tennessee Gully

Musrock, Henry
https://dc.etsu.edu/asrf/2018/schedule/141
Ballroom
4/5/2018 8:00 AM  Superacidic Materials Based On Immobilized Phosphotungstic Acid

Patel, Cheril
https://dc.etsu.edu/asrf/2018/schedule/158
Ballroom
4/5/2018 8:00 AM  Understanding Variation In The Effects Of Heterospecific Pollen Receipt: The Effect Of Pollen And Recipient Traits
APPENDIX A: 2018 Appalachian Student Research Forum

Roden, John W. III
https://dc.etsu.edu/asrf/2018/schedule/87
Ballroom
4/5/2018 8:00 AM Determining The Physiological And Behavioral Methods Of Salinity Tolerance In Corbicula Fluminea

Master's Student

Akande, Sodiq
https://dc.etsu.edu/asrf/2018/schedule/58
Ballroom
4/5/2018 8:00 AM Investigating Different Modeling Techniques For Quantifying Heat Transfer Through Building Envelopes

Alabdulwaheed, Abdulhameed
https://dc.etsu.edu/asrf/2018/schedule/175
Ballroom
4/5/2018 8:00 AM 3D-Printed Fluidic Devices And Incorporated Graphite Electrodes For Electrochemical Immunoassay Of Biomarker Proteins

Alenazi, Mohrah
https://dc.etsu.edu/asrf/2018/schedule/71
Ballroom
4/5/2018 8:00 AM Extraction And Purification Of Biologically Active Metabolites From The Rhodococcus Sp. Mtm3W5.2

Alharbi, Helal
https://dc.etsu.edu/asrf/2018/schedule/197
Ballroom
4/5/2018 8:00 AM Synthesis Of Diazonium N-(Perfluoroalkyl) Benzenesulfonimide Zwitterionic Polymers For Proton Exchange Membrane Fuel Cells

Ametsetor, Ebenezer
https://dc.etsu.edu/asrf/2018/schedule/64
Ballroom
4/5/2018 8:00 AM Synthesis Of Hydroxytyrosol Derivatives

Barker, Daniel A
https://dc.etsu.edu/asrf/2018/schedule/188
Ballroom
4/5/2018 8:00 AM The Effects Of Invasive Plant Species On Pollen Transfer Networks In Southern Appalachian Floral Communities

Birchfield, Aaron
https://dc.etsu.edu/asrf/2018/schedule/167
Ballroom
4/5/2018 8:00 AM Crystallization And Analysis Of Tag Effects Using A Flavonol Specific Glucosyltransferase From Grapefruit

Fasesin, Kingsley
https://dc.etsu.edu/asrf/2018/schedule/30
Ballroom
4/5/2018 8:00 AM Improving Sinkhole Mapping Using Lidar Data And Assessing Road Infrastructure At Risk In Johnson City, Tn.
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Kalu, Chimdi
https://dc.etsu.edu/asrf/2018/schedule/121
Ballroom
4/5/2018 8:00 AM Synthesis And Biological Significance Of 1,2,4-Oxadiaxolidin-5-One

Mingle, David
https://dc.etsu.edu/asrf/2018/schedule/130
Ballroom
4/5/2018 8:00 AM Synthesis Of Pyrrolo[2,1-C] [1,4] Benzodiazepine -11- Hydrazinyl Devrivaties
As A Potential Antimicrobial Agent

Nanto, Darack B.
https://dc.etsu.edu/asrf/2018/schedule/39
Ballroom
4/5/2018 8:00 AM The Eco-Smart Can V2.0

Omadoko, Ovuokenye
https://dc.etsu.edu/asrf/2018/schedule/169
Ballroom
4/5/2018 8:00 AM Simple Photochemical Reduction Of Carbon Dioxide To Formate Under Mild
Acidic Conditions

Peers, Justin
https://dc.etsu.edu/asrf/2018/schedule/4
Ballroom
4/5/2018 8:00 AM Improving Volcano Risk Communication At The Long Valley Caldera And
Mono-Inyo Craters Volcanic System, Eastern California, Usa

Ragsdale, Raven
https://dc.etsu.edu/asrf/2018/schedule/195
Ballroom
4/5/2018 8:00 AM Temperature Entrainment Of Two Different Circadian Rhythms In The Flesh
Fly Sarcophaga Crassipalpis

Stanley, Amber
https://dc.etsu.edu/asrf/2018/schedule/155
Ballroom
4/5/2018 8:00 AM The Effects Of Urbanization On Avian Seed Dispersal Success Of
Toxicodendron Radicans (Anacardiaceae)

Tedder, Amanda
https://dc.etsu.edu/asrf/2018/schedule/53
Ballroom
4/5/2018 8:00 AM Impact Of Viviparity On Skeletal Development In A Reproductively Bimodal
Squamate Species

Wang, Haiyu
https://dc.etsu.edu/asrf/2018/schedule/178
Ballroom
4/5/2018 8:00 AM Synthesis Of 2-Carbamoyl-4-Oxo-1,5-Diazabicyclo [3.2.1] Octane Derivatives
As A Possible Inhibitors Of Serine B-Lactamases
## Social & Behavioral Sciences

### Undergraduate Student

**Bailey, Benjamin**  
Ballroom  
4/5/2018 8:00 AM  
*The Relationship Among Prenatal Drug Exposure And Social Fear, Inhibitory Control, And Head Circumference*

**Bishop, Kaelyn**  
[https://dc.etsu.edu/asrf/2018/schedule/203](https://dc.etsu.edu/asrf/2018/schedule/203)  
Ballroom  
4/5/2018 8:00 AM  
*Perception And Acceptability Of Violence In Video Games, Movies, And News*

**Carlisle, Makaila**  
[https://dc.etsu.edu/asrf/2018/schedule/5](https://dc.etsu.edu/asrf/2018/schedule/5)  
Ballroom  
4/5/2018 8:00 AM  
*Outcomes Of Tennessee Youth As They Age Out Of Fostercare*

**Chambers, Jessica M.**  
Ballroom  
4/5/2018 8:00 AM  
*Internalizing Symptoms Associated With Emotional Abuse: An Examination Of Religious Social Support As A Moderating Variable*

**Clark, Emily A.**  
Ballroom  
4/5/2018 8:00 AM  
*Ptd Symtoms And Military-Specific Stigma In United States Veterans*

**Cobb, Teliyah**  
[https://dc.etsu.edu/asrf/2018/schedule/186](https://dc.etsu.edu/asrf/2018/schedule/186)  
Ballroom  
4/5/2018 8:00 AM  
*Mentally Ill Caregivers And Differential Patterns Of Substance Abuse In A Sample Of University Students*

**Fasanello, Nicholas A.**  
Ballroom  
4/5/2018 8:00 AM  
*Self-Esteem As A Mediator Of Internalized Stigma And Health In Sexual Minority Women*

**Ford, Emily E.**  
[https://dc.etsu.edu/asrf/2018/schedule/91](https://dc.etsu.edu/asrf/2018/schedule/91)  
Ballroom  
4/5/2018 8:00 AM  
*Taking The Risk: Insufficient Communication Concerning Risky Driving Behaviors Among Young Drivers In Central Appalachia*

**Gardner, Aaron**  
Ballroom  
4/5/2018 8:00 AM  
*An Examination Of Erps Produced By Images Of Locations And Graspable Objects In An Oddball Task*
APPENDIX A: 2018 Appalachian Student Research Forum

Hale, Elizabeth
https://dc.etsu.edu/asrf/2018/schedule/1
Ballroom
4/5/2018 8:00 AM  
*Relationship Of Military Service Branch To Rates Of Post-Traumatic Stress Disorder And Substance Use Disorder Among Appalachian Veterans*

Long, Kelsey B.
https://dc.etsu.edu/asrf/2018/schedule/210
Ballroom
4/5/2018 8:00 AM  
*Effects Of Birth Order On Temperament And Language*

Lunceford, Angel
https://dc.etsu.edu/asrf/2018/schedule/22
Ballroom
4/5/2018 8:00 AM  
*The Importance Of Baseline Analysis For Establishing Replicable, Evidence-Based Behavior Analytic Interventions: Implications For Researchers And Practitioners*

Mcnair, Ragen D.
https://dc.etsu.edu/asrf/2018/schedule/120
Ballroom
4/5/2018 8:00 AM  
*Siblicide: Offender Patterns And Typologies.*

Noe, Megan
https://dc.etsu.edu/asrf/2018/schedule/151
Ballroom
4/5/2018 8:00 AM  
*Appalachian Tennessee And Virginia Schools: A Role In Suicide Prevention Using Activity Involvement And Adult Connectedness As Key Markers.*

Simpson, Zakery
https://dc.etsu.edu/asrf/2018/schedule/192
Ballroom
4/5/2018 8:00 AM  
*Adolescent Alcohol-Drinking Leads To Long Lasting Changes In The Medial Prefrontal Cortex*

Stone, Samantha A.
https://dc.etsu.edu/asrf/2018/schedule/156
Ballroom
4/5/2018 8:00 AM  
*Indirect Effects Of Concealment On Health In Sexual Minority Women*

Tanner, Katie J.
https://dc.etsu.edu/asrf/2018/schedule/54
Ballroom
4/5/2018 8:00 AM  
*Insomnia And Suicide Risk In Veterans: Conditional Indirect Effects Of Perceived Burdensomeness And Self-Compassion*

Master's Student

Dubasi, Hima Bindu
https://dc.etsu.edu/asrf/2018/schedule/52
Ballroom
4/5/2018 8:00 AM  
*A Pilot Study On The Knowledge Of Sex- Trafficking In The United States Among A Sample Of College Students At A University In North- East Tennessee.*
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**Hawkins, Sarah**
https://dc.etsu.edu/asrf/2018/schedule/21
Ballroom
4/5/2018 8:00 AM  
*Beliefs And Knowledge Regarding Hiv Transmission In Swaziland: A Comparison Between The Sexes*

**Kuku, Olubunmi**
https://dc.etsu.edu/asrf/2018/schedule/159
Ballroom
4/5/2018 8:00 AM  
*Association Between Depression And Physical Health Among College Adults: The Mediating Roles Of Physical Activity And Diet*

**Liegel, Mckenzie**
https://dc.etsu.edu/asrf/2018/schedule/206
Ballroom
4/5/2018 8:00 AM  
*Health Communication Strategies Among Non-Profit Organizations In Appalachia*

**Oke, Adekunle**
https://dc.etsu.edu/asrf/2018/schedule/27
Ballroom
4/5/2018 8:00 AM  
*Recent Incidences And Trends Of The Top Five Cancers In Northeast Appalachian Tennessee*

**Osemede, Fenose**
https://dc.etsu.edu/asrf/2018/schedule/55
Ballroom
4/5/2018 8:00 AM  
*Individual And Contextual Factors Associated With Subclinical Atherosclerosis In Diabetes Patients In Rural Central Appalachia*

**Ouedraogo, Youssoufou**
https://dc.etsu.edu/asrf/2018/schedule/131
Ballroom
4/5/2018 8:00 AM  
*Motivating Factors Of Blood Donation Among South Central Appalachian Adolescents*

**Pugh, Kelley C.**
https://dc.etsu.edu/asrf/2018/schedule/34
Ballroom
4/5/2018 8:00 AM  
*Self-Forgiveness And Suicide Risk In Veterans: Examining Serial Linkages Of Shame And Interpersonal Needs*

**Treaster, Morgan K.**
https://dc.etsu.edu/asrf/2018/schedule/33
Ballroom
4/5/2018 8:00 AM  
*Social Support And Psychological Distress In Cancer: Stress As A Mediator*

**Doctoral Student**

**Collins, Candice**
https://dc.etsu.edu/asrf/2018/schedule/191
Whitetop Mountain Room 225
4/5/2018 8:00 AM  
*The Prevalence And Trend Of Depression Among U.S. Veterans*
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Gilley, Rebecca
https://dc.etsu.edu/asrf/2018/schedule/171
Whitetop Mountain Room 225
4/5/2018 8:00 AM  Crime In Tennessee: Differences In Perpetrator Gender And The Impact Of Rurality

Hall, Benjamin B.
https://dc.etsu.edu/asrf/2018/schedule/174
Whitetop Mountain Room 225
4/5/2018 8:00 AM  Guilt And Ptsd Among Injured Combat Veterans: Implications Of Self-Compassion And Posttraumatic Growth

Lemay, Carrie
https://dc.etsu.edu/asrf/2018/schedule/168
Whitetop Mountain Room 225
4/5/2018 8:00 AM  The Relationship Between Adverse Childhood Experiences, Mental Health Outcomes, And Polypharmacy Among Psychiatric Inpatients In Secure Forensic Care

Puszkiewicz, Kelcey
https://dc.etsu.edu/asrf/2018/schedule/163
Whitetop Mountain Room 225
4/5/2018 8:00 AM  Early Childhood Adversity, Socioecological Influences, And Delinquent Behaviors In A Treatment Sample Of Male Adolescents

Weber, Amy J.
https://dc.etsu.edu/asrf/2018/schedule/125
Whitetop Mountain Room 225
4/5/2018 8:00 AM  Differences In Access To Contraceptive Services Between Rural And Non-Rural Clinics In South Carolina

Biomedical & Health Sciences

Undergraduate Student

Adkins, Caleb
https://dc.etsu.edu/asrf/2018/schedule/35
Ballroom
4/5/2018 8:00 AM  Neuroinflammation In The C1Q/Tnf-Related Over-Expression Mouse Model Of Chronic Ethanol Exposure

Carrasco, Tiffani
https://dc.etsu.edu/asrf/2018/schedule/65
Ballroom
4/5/2018 8:00 AM  Vitamin D Receptor Gene Expression In Human And Mouse Cingulate Cortex

Coulthard, Jacob
https://dc.etsu.edu/asrf/2018/schedule/47
Ballroom
4/5/2018 8:00 AM  Oxidative Stress Susceptibility Of Oligodendrocytes In Major Depressive Disorder Is Widespread In The Brain
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Crawford, Claire C.
https://dc.etsu.edu/asrf/2018/schedule/148
Ballroom
4/5/2018 8:00 AM  
*Deficiency Of Ataxia-Telangiectasia Mutated Kinase Affects Autophagy After Myocardial Infarction*

Dillard, Cory
https://dc.etsu.edu/asrf/2018/schedule/143
Ballroom
4/5/2018 8:00 AM  
*Does Morphology Matter? The Fungal-Bacterial Inhibitory Interactions Of Candida Albicans And Alcaligenes Faecalis.*

Dinsmore, Kristen
https://dc.etsu.edu/asrf/2018/schedule/146
Ballroom
4/5/2018 8:00 AM  
*Refrigerated Stability Of Diluted Cisatracurium, Rocuronium, And Vecuronium For Skin Testing After Perioperative Anaphylaxis*

Drozdz, Mateusz
https://dc.etsu.edu/asrf/2018/schedule/161
Ballroom
4/5/2018 8:00 AM  
*Amphibians And Reptiles As A Source Of Salmonella – A Review Of Salmonella Outbreaks In A Period Of Last Ten Years*

Hall, Alexis
https://dc.etsu.edu/asrf/2018/schedule/119
Ballroom
4/5/2018 8:00 AM  
*The Long Term Effects Of Methylphenidate On The Brain*

Harness, Denise
https://dc.etsu.edu/asrf/2018/schedule/106
Ballroom
4/5/2018 8:00 AM  
*A Comparison Of Unsupervised Methods For Dna Microarray Leukemia Data*

Keith, Sydney R
https://dc.etsu.edu/asrf/2018/schedule/182
Ballroom
4/5/2018 8:00 AM  
*Experimental Protocol For The Production Of Bacterial Expressed Ctrp3*

Oliver, Joe
https://dc.etsu.edu/asrf/2018/schedule/97
Ballroom
4/5/2018 8:00 AM  
*Inhibition Of Focal Adhesion Kinase Promotes Adult Olfactory Stem Cell Self-Renewal And Neuroregeneration Via Ciliary Neurotrophic Factor*

Singal, Sakshi
https://dc.etsu.edu/asrf/2018/schedule/11
Ballroom
4/5/2018 8:00 AM  
*Burkitt'S Lymphoma Masquerading As Acute Cholecystitis And Vaginal Bleeding*
APPENDIX A: 2018 Appalachian Student Research Forum

Trogen, Greta
https://dc.etsu.edu/asrf/2018/schedule/72
Ballroom
4/5/2018 8:00 AM Analysis Of Oligomeric State Of Ctrp3 In Relation To Type 2 Diabetes

Wanamaker, Salem
https://dc.etsu.edu/asrf/2018/schedule/132
Ballroom
4/5/2018 8:00 AM Visualizing The Inhibitory Power Of A Novel Protein Against Citrobacter And Enterobacter Biofilms.

Warren, Zachary C
https://dc.etsu.edu/asrf/2018/schedule/60
Ballroom
4/5/2018 8:00 AM Upregulating Of Cyp2E1 In Ethanol-Fed Mice With Transgenic Overexpression Of Ctrp3

White, Grayson D.
https://dc.etsu.edu/asrf/2018/schedule/48
Ballroom
4/5/2018 8:00 AM The Effects Of Simulated Spaceflight Conditions On The Mucin Lining Of The Mouse Uterine Tube

Yuceer, Buse
https://dc.etsu.edu/asrf/2018/schedule/157
Ballroom
4/5/2018 8:00 AM Does Alcaligenes Inhibit Other Staphylococcal Species?

Britt, Nicholas M.
https://dc.etsu.edu/asrf/2018/schedule/205
Ballroom
4/5/2018 8:00 AM Immunodeficient R2G2 Mouse Strain Yields Spleens With Unusual Cytoarchitecture And Sympathetic Innervation

Master's Student

Ameen, Muhammad T.
https://dc.etsu.edu/asrf/2018/schedule/24
Ballroom
4/5/2018 8:00 AM Vitamin B2 Reduces Amyloid-Beta Proteotoxicity And Improves Health In A Caenorhabditis Elegans Alzheimer'S Disease Model

Degroat, Ashley R.
https://dc.etsu.edu/asrf/2018/schedule/66
Ballroom
4/5/2018 8:00 AM The Effect Of Alcohol Consumption On Female Inflammation

Elom, Hilary
https://dc.etsu.edu/asrf/2018/schedule/116
Ballroom
4/5/2018 8:00 AM The Distribution Of Hepatitis C Virus Genotypes In Us Population. Data From Nhanes 2006-2016
Famojuro, Oluwaseun
https://dc.etsu.edu/asrf/2018/schedule/187
Ballroom
4/5/2018 8:00 AM  
Association Of Substance Use And Obesity Among Adults In United States(Findings From Brfss 2016)

Hagood, Kendra L.
https://dc.etsu.edu/asrf/2018/schedule/42
Ballroom
4/5/2018 8:00 AM  
Effect Of Ethanol On Autophagy Of Skeletal Muscle

Nowicki, Blake A.
https://dc.etsu.edu/asrf/2018/schedule/122
Ballroom
4/5/2018 8:00 AM  
Young Adults With Cleft Lip And Palate: Are They Receiving Team Services?

Salamat, Julia
https://dc.etsu.edu/asrf/2018/schedule/189
Ballroom
4/5/2018 8:00 AM  
The Role Of Cyp2A5 And Ppar-Alpha In Cadmium-Induced Liver Injury

Scruggs, Kent
https://dc.etsu.edu/asrf/2018/schedule/50
Ballroom
4/5/2018 8:00 AM  
Analysis Of Neuroinflammatory Markers In The Btbr T+Tf/J Mouse Model Of Autism Spectrum Disorder

Shelton, Heath W.
https://dc.etsu.edu/asrf/2018/schedule/166
Ballroom
4/5/2018 8:00 AM  
Inhibition Of Tnf-Alpha Decreases Microglia Activation In Rats Neonatally Treated With Poly I:C

Doctoral Student
Chapman, Rudy T.
https://dc.etsu.edu/asrf/2018/schedule/17
Whitetop Mountain Room 225
4/5/2018 8:00 AM  
Axonal Regrowth Of Olfactory Sensory Neurons After Chemical Ablation With Methimazole

Gill, Wesley
https://dc.etsu.edu/asrf/2018/schedule/68
Whitetop Mountain Room 225
4/5/2018 8:00 AM  
Epigenetic Transmission Of Nicotinic Effects Within The Neonatal Quinpirole Rodent Model Of Schizophrenia

Gong, Henry
https://dc.etsu.edu/asrf/2018/schedule/51
Whitetop Mountain Room 225
4/5/2018 8:00 AM  
Importance Of Mitochondrial Nadph Generating Enzymes For Longevity
APPENDIX A: 2018 Appalachian Student Research Forum

Hicks, Courtney
https://dc.etsu.edu/asrf/2018/schedule/81
Whitetop Mountain Room 225
4/5/2018 8:00 AM  Medical Students’ Self-Perceived Preparedness In Managing Patients With Bppv

Madon, Katelyn
https://dc.etsu.edu/asrf/2018/schedule/127
Whitetop Mountain Room 225
4/5/2018 8:00 AM  Investigating Orphan Response Regulators In The Opportunistic Pathogen Pseudomonas Aeruginosa

Rahman, Abir
https://dc.etsu.edu/asrf/2018/schedule/3
Whitetop Mountain Room 225
4/5/2018 8:00 AM  Association Of E-Cigarette Use With Coronary Heart Disease Among U.S. Adults

Thode, Madison P.
https://dc.etsu.edu/asrf/2018/schedule/135
Whitetop Mountain Room 225
4/5/2018 8:00 AM  A Comparison Of Word Recognition Performance For Young Adults With Normal Hearing When Listening To Two Speakers

Education & Learning

Medical Student

Cox, Taylor
https://dc.etsu.edu/asrf/2018/schedule/86
Ballroom
4/5/2018 8:00 AM  Promoting Health Education And Literacy In Rural Tennessee: The Go-Packs Pilot Project

Master’s Student

Mensah-Bonsu, Patience
https://dc.etsu.edu/asrf/2018/schedule/149
Ballroom
4/5/2018 8:00 AM  Examining The Effects Of A Teacher Training System On Preschool Teachers’ Productive And Non-Productive Conversation With Children During The Free Play Time: Using A Multiple Baseline Experimental Design

Chavez Reyes, Denise A.
https://dc.etsu.edu/asrf/2018/schedule/20
Ballroom
4/5/2018 8:00 AM  An Assessment Of The Factors That Increase The Likeliness Of Hispanics Students To Attend Higher Education
# APPENDIX A: 2018 Appalachian Student Research Forum

<table>
<thead>
<tr>
<th>Doctoral Student</th>
<th>Title</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sareh, Narges</td>
<td>Gender Differences In Preschool Teachers’ Math Talk With Children</td>
<td>4/5/2018 8:00 AM</td>
<td>Ballroom</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Pharmacy Student</th>
<th>Title</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Archibald, Timothy</td>
<td>Refrigerated Stability Of Diluted Succinylcholine, Pancuronium, And Atracurium</td>
<td>4/5/2018 8:00 AM</td>
<td>Ballroom</td>
</tr>
<tr>
<td>Gardner, Austin</td>
<td>Metabolic Targets Of Gnaphalin Mediated Apoptosis In Colon And Pancreatic Cancer Cell Lines</td>
<td>4/5/2018 8:00 AM</td>
<td>Ballroom</td>
</tr>
<tr>
<td>Ketchem, Shannon</td>
<td>Dopamine Cell Loss Within The Nigrostriatal Pathway Due To Oxidative Stress From Chronic Methylphenidate</td>
<td>4/5/2018 8:00 AM</td>
<td>Ballroom</td>
</tr>
<tr>
<td>Lawson, Sarah</td>
<td>Stability Of Oral Vitamin K Solutions Stored In Amber Plastic Syringes</td>
<td>4/5/2018 8:00 AM</td>
<td>Ballroom</td>
</tr>
<tr>
<td>McGuire White, Kathleen</td>
<td>Interprofessional Transitional Care Teams Reduce Medications Needed Post-Discharge</td>
<td>4/5/2018 8:00 AM</td>
<td>Ballroom</td>
</tr>
<tr>
<td>Schreiner, Shannon C.A.</td>
<td>Pharmacokinetics Of Synthetic Cathinones Found In “Bath Salts” In Mouse Brain And Plasma Using Liquid Chromatography - Mass Spectrometry</td>
<td>4/5/2018 8:00 AM</td>
<td>Ballroom</td>
</tr>
<tr>
<td>Sondergaard, Jeffrey</td>
<td>Comparison Of Two Rat Somatotroph Cell Lines To Examine Tissue-Specific Transcription Of Growth Hormone</td>
<td>4/5/2018 8:00 AM</td>
<td>Ballroom</td>
</tr>
</tbody>
</table>
APPENDIX A: 2018 Appalachian Student Research Forum

**Yoo, Harrison**
https://dc.etsu.edu/asrf/2018/schedule/28
Ballroom
4/5/2018 8:00 AM  
*Dissolution Analysis Of Otc Coenzyme Q10 Dietary Supplements*

**Social, Behavioral, Biomedical & Health Sciences**

**Medical Resident or Clinical Fellow**

**Arif, Sarah**  MD
https://dc.etsu.edu/asrf/2018/schedule/46
Whitetop Mountain Room 225
4/5/2018 8:00 AM  
*A De Novo Presentation Without Renal Failure.*

**Dave, Havya**
https://dc.etsu.edu/asrf/2018/schedule/160
Whitetop Mountain Room 225
4/5/2018 8:00 AM  
*Spirometry And Improving Clinical Decision Making In Reactive Airway Diseases*

**Farmer, Cortney**
https://dc.etsu.edu/asrf/2018/schedule/162
Whitetop Mountain Room 225
4/5/2018 8:00 AM  
*Outpatient Evaluation & Management Billing And Coding: Development Of Enduring Curriculum For Pgy1 Resident Education In A Rural Family Medicine Practice*

**Gaddam, Sathvika**
https://dc.etsu.edu/asrf/2018/schedule/70
Whitetop Mountain Room 225
4/5/2018 8:00 AM  
*Critical Upper Limb Ischemia In A Patient With New-Onset Atrial Fibrillation*

**Garner, Chris**
https://dc.etsu.edu/asrf/2018/schedule/105
Whitetop Mountain Room 225
4/5/2018 8:00 AM  
*Improving Male Vaccine Uptake For Human Papilloma Virus In A Family Medicine Residency Program*

**Hollis, Jason**
https://dc.etsu.edu/asrf/2018/schedule/190
Whitetop Mountain Room 225
4/5/2018 8:00 AM  
*Improving Annual Screening For Lung Cancer In Targeted Adult Populations In A Rural Family Medicine Residency*

**Jones, Curry**
https://dc.etsu.edu/asrf/2018/schedule/183
Whitetop Mountain Room 225
4/5/2018 8:00 AM  
*Improving Knowledge Of Hepatitis C Screening Guidelines Among A Population Of Family Medicine Residents*
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Khalaf, Rossa
https://dc.etsu.edu/asrf/2018/schedule/173
Whitetop Mountain Room 225
4/5/2018 8:00 AM  Marginal Zone Lymphoma With Hyper Viscosity Syndrome Responding To Plasmapheresis And Chemo Immunotherapy

Patel, Amit
https://dc.etsu.edu/asrf/2018/schedule/200
Whitetop Mountain Room 225
4/5/2018 8:00 AM  Addressing Gaps In Immunization Rates In A Family Medicine Residency Clinic

Reddy, Dheeraj MD
https://dc.etsu.edu/asrf/2018/schedule/211
Whitetop Mountain Room 225
4/5/2018 8:00 AM  Renal And Testicular Myeloid Sarcoma Defines Acute Myeloid Leukemia Even In The Absence Of Blood And Marrow Involvement

Sriramoju, Vindhya MD
https://dc.etsu.edu/asrf/2018/schedule/201
Whitetop Mountain Room 225
4/5/2018 8:00 AM  Elizabethkingia Meningoseptica Bacteremia Associated With Infective Endocarditis In An Intravenous Drug Abuser

Medical Student

Allred, Delayne
https://dc.etsu.edu/asrf/2018/schedule/164
Mt. Mitchell Room 220
4/5/2018 8:00 AM  Improving Coding Behaviors Among Physicians In A Rural Family Medicine Residency Program

Blosser, Peter
https://dc.etsu.edu/asrf/2018/schedule/2
Mt. Mitchell Room 220
4/5/2018 8:00 AM  Differential Diagnosis Of Pan-Uveitis: Behçet’S Disease

Chan, Adam Y.
https://dc.etsu.edu/asrf/2018/schedule/19
Mt. Mitchell Room 220
4/5/2018 8:00 AM  Mental Health Intervention Strategies For Youth In Rural Northeast Tn

Kolagatla, Sandhya
https://dc.etsu.edu/asrf/2018/schedule/89
Mt. Mitchell Room 220
4/5/2018 8:00 AM  Familial Polycythemia Likely Due To Novel Hemoglobin Variant- Hemoglobin Hyden

Kwak, Hakyong G.
https://dc.etsu.edu/asrf/2018/schedule/85
Mt. Mitchell Room 220
4/5/2018 8:00 AM  Knowledge And Perceptions Of Aces (Adverse Childhood Experiences) Among Parents And Providers In Northeast Tennessee
APPENDIX A: 2018 Appalachian Student Research Forum

Lee, Katie
https://dc.etsu.edu/asrf/2018/schedule/144
Mt. Mitchell Room 220
4/5/2018 8:00 AM  Determining The Efficacy For Training Medical Students On Domestic Violence And Sexual Assault Survivor Support

Miller, Brandon
https://dc.etsu.edu/asrf/2018/schedule/184
Mt. Mitchell Room 220
4/5/2018 8:00 AM  Effects Of Pododcyte Dysfunction On The Susceptibility To Hypertensive Glomerulosclerosis

Minhas, Ahmed
https://dc.etsu.edu/asrf/2018/schedule/212
Mt. Mitchell Room 220
4/5/2018 8:00 AM  When Imaging Predicts Aggressiveness Of Large B Cell Lymphoma Biology

Neighbor, Rebecca
https://dc.etsu.edu/asrf/2018/schedule/69
Mt. Mitchell Room 220
4/5/2018 8:00 AM  Gojoco Trail Awareness

Rahimi-Saber, Anahita
https://dc.etsu.edu/asrf/2018/schedule/128
Mt. Mitchell Room 220
4/5/2018 8:00 AM  Transgender Medicine Integrated Grand Rounds: Are Medical Students Receiving Enough Education To Competently Care For Our Patients?

Shipley, Lindsey C. BS
https://dc.etsu.edu/asrf/2018/schedule/154
Mt. Mitchell Room 220
4/5/2018 8:00 AM  15 Lox 1 Up-Regulation And Cytotoxicity With Γ-Tocotrienol In Hct-116 Colon Cancer Cells

Shoemaker, Griffin
https://dc.etsu.edu/asrf/2018/schedule/18
Mt. Mitchell Room 220
4/5/2018 8:00 AM  Prenatal Drug And Related Exposures In Infant Patients Of A Northeast Tennessee Pediatric Primary Care Clinic

Ververis, Megan
https://dc.etsu.edu/asrf/2018/schedule/67
Mt. Mitchell Room 220
4/5/2018 8:00 AM  A Case Report Of Krukenberg Tumor Arising From Small Bowel Adenocarcinoma

Whicker, Wyatt
https://dc.etsu.edu/asrf/2018/schedule/204
Mt. Mitchell Room 220
4/5/2018 8:00 AM  Discovery Of A Novel Anti-Neuroinflammatory Treatment For Auditory Sensorimotor Gating In Two Rodent Models Of Schizophrenia

Zalewski, Jacob T.
https://dc.etsu.edu/asrf/2018/schedule/29
Mt. Mitchell Room 220
4/5/2018 8:00 AM  Severity Of Acute Kidney Injury In Mice Associated With Ischemia Duration And Gender