
URSCO NEWSLETTER

UNCG Undergraduate Research, Scholarship and Creativity Office | Fall 2018 Recap

Important Dates

January 30: Begin Accepting Expo Applications

February 10: Summer 2019 URCA Request Deadline

February 27: Expo Application Deadline

March 4-8: Spring Break!

April 14: Fall/Spring 2019/2020 URCA Request Deadline

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- SURF
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- ABRCMS
- URSCO Faculty Fellows
- McNair Scholars Program
- MARC U-STAR
- URCA Recipients

13th Annual Carolyn & Norwood Thomas Undergraduate Research and Creativity Expo

Thursday April 4, 2019

in the Elliot University Center

Applications will be accepted

January 30 - February 27

Save the Date!

The expo is the campus-wide celebration of undergraduate research, scholarship, and creative activities. All students engaged in faculty-mentored scholarly inquiry are encouraged to participate. Students are eligible to compete for program recognition, which includes monetary awards. Those students who wish to be considered for evaluation must have their mentor's approval.

Participants in course-based undergraduate research projects are also encouraged to present.

Eight students represented UNCG at the 3rd annual Southern Conference Undergraduate Research Forum (SURF) on November 2-4, 2018. SURF was hosted on the campus of Wofford College in Spartanburg, SC and brought together 150+ students from all 10 Southern Conference institutions who presented on their research, scholarship and/or creative inquiry representing a multitude of disciplines. The UNCG students attended presentations and graduate school information sessions, networked with fellow undergraduates from other institutions, and honed their oral communication skills through delivering their research presentations.



<u>Student Name</u>	<u>Faculty Mentor</u>	<u>Presentation Title</u>
Charles Crawford	Mitchell Croatt	Using Additives as Reagents: Coupling with Triphenylphosphine
Keia Harris	Carrie Rosario	Tobacco Ads: What Messages Are They Sending in Minority Communities?
Caroline Infante Arismendi	Chris Wahlheim	Spatial Cueing Effects on Memory for Event Changes
April Miller	Pat Wasserboehr	From 3D Modeling to Robotic Stone Carving
Dixie Ortiz	Rebecca MacLeod	Near Peer Mentorship as a Model for Private Music Instruction
Sarah Ragab	Michael Hemphill	Global Applications of Sport for Positive Youth Development: Sri Lanka
Andrew Savage	Mark Engebretson	Coruscate for Chamber Orchestra
Emilee Witte	Donna Nash	Using pXRF to Char the Use of Pigments in Southern Peru (900-1500 CE)

SNCURCS 2018



Twelve UNCG students presented their research at the 14th Annual State of North Carolina Undergraduate Research and Creativity Symposium (SNCURCS) on Saturday November 10, 2018. This year SNCURCS was hosted by NC State University and NC State University's Office of Undergraduate Research in Raleigh, NC.

SNCURCS provides undergraduate scholars in all fields a forum to share the results of their work through posters, oral presentations, performances, and works of art. This year's symposium showcased:

- 98 Oral Presentations
- 305 Poster Presentations
- 6 Creative Performances
- 1 Art Exhibit

<u>Student</u>	<u>Faculty Mentor</u>	<u>Presentation Title</u>
Yathrip Abdelgadir	Alyssa Gabbay	Issues of Interpretation and Authority in the Academic Study of Islam: The Nation of Islam
Maura Bourne	Susan Keane	The Effects of Sensation Seeking and Mother-Adolescent Conflict on Adolescent Risky Behavior
Grace Crowley	Tatsiana Shymanovich	For Oviposition Onthophagus Taurus Prefers Dung From Pastures With Novel Tall Fescue Cultivar MaxQ2 Over Traditional Kentucky-31
Manead Khin	Nadja Cech	Macleaya Cordata as a Potential Cure for MRSA
Alexandra Romero	Elizabeth Perrill	Farid Belkahia and Nguyen Tu Nghiem: The Artists' Manifestation of the Colonial Mindset
Andrew Savage	Mark Engebretson	Coruscate for Chamber Orchestra
Ali Shahbandi	Nadja Cech	Bacterial Metabolite Profiling via Ultra High-Performance Liquid Chromatography Coupled to High-Resolution Mass Spectrometry
Alexandra Smith	Susan Keane	Effects of Surgency and Emotion Relation on Friendship Quality
Aiko Ueno	Jennifer Etnier	Acute Exercise and Memory in Older Adults (EMO)
Hongzhou Wang	Norman Chiu	Improving Performance of Traveling Wave Ion Mobility Separation
Ariana Watkins	Gabriela Livas-Stein	Can You See Me? Student-Faculty Interactions
Autumn Yates	Stephen Sills	Building a Compassionate Community: An Evaluation of Harm Reduction Curriculum for Opioid Use and Dependency

UNCG Students at ABRCMS 2018

Seven UNCG MARC Fellows attended, of which three presented their research at the Annual Biomedical Research Conference for Minority Students (ABRCMS). ABRCMS is one of the largest communities of underrepresented minorities in STEM. Students attend this conference to present their research, enhance professional development skills, explore graduate schools, and network. During the four-day conference, over 2,000 students from over 350 colleges and universities participate in poster and oral presentations in twelve STEM disciplines. Fellows attending included: Kimberrly Colon, Alicia Costa-Terryll, Lauren Dorn, Alexis Rice, Oluwaseyi Isijola, Mo'nay Rodgers, and Megan Toler.



<u>Student Name</u>	<u>Faculty Mentor</u>	<u>Presentation Title</u>
Lauren Dorn	Laurie Wideman	Parental Monitoring and Neighborhood Quality in Childhood Correlate with Adolescent Health Outcomes
Alexis Rice	Erin Reifsteck	Comparison of Physical Activity Behaviors and Value of Physical Activity Among Community-Based Health Educators
Megan Toler	John Kiss	Analysis of Phototropism and Gravitropism on Arabidopsis Thaliana Development

2018-2019 URSCO Faculty Fellows

The goal of the URSCO Fellows program is to identify, support, and disseminate new ideas and pedagogical practices that increase the accessibility of Undergraduate Research on our campus.

This year, four UNCG Arts and Humanities faculty members will serve as URSCO Faculty Fellows.

In addition to these four, Dr. Joanne Murphy will serve as Senior Fellow and work alongside URSCO Director, Dr. Lee Phillips, to develop and refine additional strategies for discussing Research in the Curriculum.

<u>Professor Name</u>	<u>Department</u>	<u>Course Revisions</u>
Heather Adams	English	Adams plans to enhance a semester-long Course Based Undergraduate Research Experience (CURE) in ENG 305: Contemporary Rhetoric and to implement two shorter CURE projects in ENG 363: Gender and the Language of Health and Medicine.
Robyn Le Blanc	Classical Studies	Le Blanc plans to enhance her CCI 327: The Age of Constantine course by focusing on how students collect and organize large groups of evidence and how to analyze this evidence to move from topic to research question.
Jennida Chase	Media Studies	Chase will utilize the Faculty Fellows program to assist with production of a video she's producing and directing for electronic recording artist Quilla. The short, produced in the spring, will feature undergraduate students from UNCG's School of Dance. Media Studies majors will work with Chase on the video while enrolled in an independent study for credit during the Spring 2019 semester.
Spoma Jovanovic	Communication Studies	Jovanovic will utilize the Faculty Fellows program to assist with her piloting of a new course for the Spring 2019 semester: <i>Local and Global Voices of Activism and Democracy</i> , in the Honors College. The course will then be integrated into the curriculum for the Communication Studies Department the following school year.

During the summer of 2018, 17 first-generation and traditionally underrepresented students conducted research and prepared for graduate school through the McNair Summer Research Institute. This summer research institute began in early May.



Throughout the eight-week experience, students conducted independent research, prepared for the Graduate Record Examination, participated in a writing lab and completed an academic professionalization course to prepare for the graduate school application process.

Scholar	Major	Research Title	Research Mentor	Library Mentor
Michael Bell	Classical Studies	Control and Production of Apicultural Commodities on the Island of Kea	Joanne Murphy	Kate Hill
McKayla Bohannon	Psychology	Retroactive Effects of Memory in Older and Younger Adults: The Role of Detecting and Remembering Change	Chris Wahlheim	Karen Grigg
Ricquita Dillard	Social Work	Depression, Racism, and Health Disparities in Pregnant Black Women	Yarneccia Dyson	Gerald Holmes
Kenya Downing	Social Work/ Psychology	Effects of Kinship Care Family Components in African American Youth	Tyreasa Washington	Rachel Sanders
Keia Harris	Public Health Education	Tobacco Retailers Utilization of Advertisement Messages within Minority Communities	Carrie Rosario	Sam Harlow
Melissa Lore	Psychology	Foster Care and Ward of the Court Alumni Success in Higher Education	Ashleigh Gallagher	Amy Harris Houk
Ashley Mustain	Kinesiology	Inversion-Eversion Measurements in Determining Risk of Having Chronic Ankle Instability	Aaron Terranova	Sam Harlow
Jasmine Porter	Political Science	Impacts of Multinational Corporations in Nigeria and Tanzania	Jerry Pubantz	Lynda Kellam
Rachel Reed	Media Studies	Color-ism in U.S. Media Representation of Afro-Latinas	Nodia Mena	Jenny Dale
Ali Shahbandi	Biochemistry	Bacterial Metabolite Profiling via Ultra High-Resolution Mass Spectrometry	Nadja Cech	Karen Grigg
Tamika Smith	Psychology	African-American Kinship Care: An Understudied Phenomenon	Tyreasa Washington	Rachel Sanders
Nic Smurthwaite	English	Contemporary Hurston: Echoes of Issues Past and Present in Literature	Noelle Morrissette	Jenny Dale
Atiyah Sylver	Arts Administration	A Look at How Artist Housing Increases the Market Value of Urban Communities and the Perpetuation of Gentrification	Hannah Granneman	Steve Cramer
Ariana Watkins	Psychology	Can You See Me?: Student-Faculty Interactions	Gabriela Stein	Amy Harris Houk
Kevin Wilson	Nutrition	Identifying Factors that Influence Dietary Spending Habits	Jared McGuirt	Lea Leininger



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McNair Program

The UNCG-McNair Scholars Program is a federal TRiO program funded by the US Department of Education. Designed to prepare undergraduate students for pursuit of a PhD, UNCG-McNair provides 25 undergraduate students with opportunities to complete research with faculty mentors, attend the UNCG-McNair Summer Research Institute, explore graduate school options, and prepare for graduate-level studies.

On November 26, the new cohort of McNair Scholars were formally inducted for the 2018-2019 School Year. URSCO would like to extend our congratulations to these scholars!



UNCG's Maximizing Access to Research Careers Undergraduate Student Training in Academic Research (MARC U-STAR) Fellowship program offers talented students underrepresented in the biomedical sciences an opportunity to prepare for graduate school.



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Maximizing Access to Research Careers
Undergraduate Student Training in
Academic Research

UNCG's MARC U-STAR Fellows work in research labs during their junior and senior year and receive:

- **A yearly ~\$12,000 stipend and tuition is paid at the in-state level**
- **Undergraduate Research Experiences**
 - **Funding to engage in year-round research projects**
 - **Paid summer research experiences**
 - **In a UNCG faculty mentor's lab**
 - **With a research group at another institution**
- **Specialized courses and workshops**
- **Travel funds to attend scientific conferences**

If you know any students interested in this amazing opportunity, invite them to apply by January 31, 2019. Visit marc.uncg.edu for more information!

Listed below are the current junior and senior MARC fellows. URSCO would like to congratulate these fellows as they participate in activities designed to enhance their confidence, academic skills, and technical abilities as they prepare to pursue graduate studies.

<u>Student Name</u>	<u>Major</u>	<u>Faculty Mentor</u>
Kimberly Colon	Psychology	Gabriela Stein
Alicia Costa-Terryll	Archaeology & Biology	Charles Egeland & Bruce Kirchoff
Lauren Dorn	Kinesiology	Laurie Wideman
Oluwaseyi Isijola	Public Health	Suzanne Vrshek-Schallhorn
Madeline Rees	Psychology	George Michel
Alexis Rice	Psychology	Erin Reifsteck
Mo'nay Rodgers	Biology	Joseph Graves
Megan Toler	Biology	John Kiss & Tatsiana Shymanovich

UNCG Undergraduate Research, Scholarship and Creativity Office
Undergraduate Research and Creativity Awards
2018 Summer

Student	Faculty Mentor	Department	Project Title
Jamison Breeding	Mitchell Croatt	Chemistry and Biochemistry	Large Scale Synthesis of Mevalocidin, a Potential Organic Herbicide
Nicholas Chambers	Kimberly Petersen	Chemistry and Biochemistry	Synthesis of Enantioenriched Spirocyclic Lactones from Enantioenriched Lactones
Alicia Costa-Terryl	Charles Egeland	Anthropology	*Reconstructing Early Human Behavior at Olduvai Gorge, Tanzania
Kiersten Eury	Amy Vetter	TEHE	Gate City Writes: The Identity Work of Teachers as Writers
Caroline Infante	Chris Wahlheim	Psychology	Spatial Cueing Effects on the Detection of Everyday Changes
Han Jiang	Norman Chiu	Chemistry and Biochemistry	Method Development for Measuring Stress Level with High Sensitivity
Shayla Lee	Hunter Bacot	Political Science	The 311 City Link Program as a Civic Engagement and Citizen Satisfaction Tool for Municipalities: The Case of the '311 City Link' Program in Winston-Salem
April Miller	Pat Wasserboehr	School of Art	*Sculpting with Robots in Italy
Ryan Parks	Sat Gupta	Mathematics and Statistics	Complex Data Analysis using Statistical and Machine Learning Tools
Kyle Pontieri	Charles Egeland	Anthropology	*Reconstructing early human behavior at Olduvai Gorge, Tanzania
Megan Saunders	Charles Egeland	Anthropology	*Reconstructing early human behavior at Olduvai Gorge, Tanzania
Andrew Savage	Mark Engebretson	Music Composition	Composition for Alarm Will Sound
Kirby Schmidt	Ian Beatty	Physics and Anatomy	Fluid Surface Polygon Formation
Saad Sohail	Mitchell Croatt	Chemistry and Biochemistry	Design and Development of New Reactions: Utilization of Strained Rings and Reactive Intermediates
Hongzhou Wang	Norman Chiu	Chemistry and Biochemistry	Pushing the Limit on Mass Spectrometric Measurements of Ribonucleosides
Emilee Witte	Donna Nash	Anthropology	*Chiribaya Ceramic Technology: Construction, Clay, and Color
Xuechen Zhu	Sat Gupta	Mathematics and Statistics	Complex Data Analysis using Statistical and Machine Learning Tools

* indicates Globally Engaged project

** indicates Community Based/Engaged project

UNCG Undergraduate Research, Scholarship and Creativity Office			
Undergraduate Research and Creativity Awards			
2018-2019 Fall-Spring			
Student	Faculty Mentor	Department	Project Title
Robert Born	Nicholas Oberlies	Chemistry and Biochemistry	Perinatal Opioid Use: Examining Best Practices in Service Provision
Maura Bourne	Susan Keane	Psychology	The Effects of Sensation Seeking and Maternal Warmth on Adolescent Risky Behavior
Celeste Cervantes	Jamie Schissel	Teacher Education and Higher Education	*Establishing a Centralized Language Assessment Association in Mexico for Indigenous Language Assessments
Melissa Chicoma	Terence Nile	Chemistry and Biochemistry	Synthesis of Noovel Ligands for Biopolymer Formation
Laura Clifton	Jo Leimenstoll	Interior Architecture	The Historic Dimension Series: Launching an Online Student Publication Series
Candice Corcoran	Kara Holden	Specialized Education Services	**A Preliminary Study of Knowledge Transfer and Application of Functional Behavior Assessments and Behavior Intervention Plans in K-12 Classrooms.
Kali Cox	Olav Rueppell	Biology	Experimental Induction of Thelytokous Parthenogenesis in Apis Mellifera (Western Honey Bee)
Kenya Downing	Tyreasa Washington	Social Work	**A Family's Impact on the Development of African American Children in Kinship Care: The Pilot Study
Michael Doyle	Nicholas Oberlies	Chemistry and Biochemistry	Natural Products as Sources of Light Activated Prodrugs
Logan Elliott	Robyn Le Blanc	Classical Studies	The Sacrificial Practices of Alexander the Great
Vanessa Enoch	Sudha Shreeniwas	Human Development and Family Studies	*Students Assist with Montagnards Count!
Victoria Espinoza	Sudha Shreeniwas	Human Development and Family Studies	*Students Assist with Montagnards Count!
Kaylee Faw	Charles Prysby	Political Science	Working-Class Support for the Republican Party
Philippian Flowe	Tyreasa Washington	Social Work	**A Family's Impact on the Development of African American Children in Kinship Care: The Pilot Study
Lindsey Flowers	Melanie Carrico and Seoha Min	Consumer, Apparel, and Retail Studies	Designing Apparel for Plus-Sized Consumers Using 3D Virtual Prototyping Technology
Elisa Frazier	Eric Drollette	Kinesiology	The Effects of Acute Cycling on Brain Function, Cognition, and Academic Achievement in Children Diagnosed with ADHD
Rachel Fuqua	Heather Helms	Human Development and Family Studies	A Meta-Analytic Review Examining Linkages Between Marital Quality and Mental Health Outcomes
Emily Gaines	Melanie Carrico and Seoha Min	Consumer, Apparel, and Retail Studies	Designing Apparel for Plus-Sized Consumers Using 3D Virtual Prototyping Technology
Aran Garnett-deakin	Heather Helms	Human Development and Family Studies	A Meta-Analytic Review Examining Linkages Between Marital Quality and Mental Health Outcomes
Paul Grant	Terence Nile	Chemistry and Biochemistry	***Novel Approaches to the Synthesis of Biopolymers Derived from Biomass
Jennifer Gubbins	Kara Holden	Specialized Education Services	**A Preliminary Study of Knowledge Transfer and Application of Functional Behavior Assessments and Behavior Intervention Plans in K-12 Classrooms.
Nima Hajhashemi	Tatsiana Shymanovich	Biology	The Cost of Autogeny in Leishmaniasis Vectors: Does Egg Production Without Obtaining Blood-Meal Reduce Sand Flies Fitness?
Lindsay House	Ian Beatty	Physics and Astronomy	Can Grandeur Overcome Insecurity? Investigating the Impact of Introductory Astronomy Course Elements on Students Self-Efficacy
Cameron Hoyle	Carrie Rosario	Public Health Education	Unveiling 'The Quit' Journey: Ecological Barriers and Facilitators to Tobacco Cessation on a College Campus
Sharneisha Joyner	Alejandro Ruty	Music	A World of Monsters
Manead Khin	Nadja Cech	Chemistry and Biochemistry	Fungal Metabolites to Target Virulence in Methicillin-Resistant Staphylococcus Aureus

UNCG Undergraduate Research, Scholarship and Creativity Office
Undergraduate Research and Creativity Awards
2018-2019 Fall-Spring

Student	Faculty Mentor	Department	Project Title
Diana Kidd	Linda Stine	Anthropology	Visualizing Guildford Courthouse's Revolutionary Landscape through Historical Archaeological Research
Margaret Leone	Robyn Le Blanc	Classical Studies	Representation of Women Throughout Material Evidence in Caesarea Maritima
Jacob Lipps	Campbell McDermid	Specialized Education Services	ASL Sociolinguistic and Strategic Performance
Aidan Lytle	Anatoly Miroshnichenko and Alicia Aarnio	Physics and Astronomy	Exploration of Properties of Local Star Nu Geminorum
Esther Mununga	Gabriela Stein	Psychology	*Cultural Perspectives on Adolescent Mental Health for Congolese Families in Two Western Countries
Lauren Nelson	John Sopper	Grogan College/Religious Studies	Residential Learning Communities and Students' Readiness to Share in the Classroom
Michael Newman	Denise Gabriel	Theatre	**Mindfulness Art Mindfulness Action (MAMA)
Hieu Nguyen	Gideon Wasserberg	Biology	The Role of Saprophytic Bacteria in Inducing Oviposition and Egg Hatching in Phlebotomus Papatasi Sand Flies
Valerie Nkansah	Sharon Morrison	Public Health Education	*Transglobal Maternal Health Practices-Phase II
Lunda Onesias	Sharon Morrison	Public Health Education	*Transglobal Maternal Health Practices-Phase II
Chioma Onokalah	Terence Nile	Chemistry and Biochemistry	***Novel Approaches to the Synthesis of Biopolymers Derived from Biomass
Dixie Ortiz	Rebecca MacLeod	Music	Gender and Race in the Music Classroom: Do Students Prefer Teachers Who Seem More Like Them?
Michael Puerto	Michaeline Jensen	Psychology	"Are WE connecting?" We-talk in Young adult text message conversations with parents, peers and romantic partners
Sarah Ragab	Michael Hemphill	Kinesiology	*Global Applications of Sport for Positive Youth Development
Itzel Avila Ramirez	Michaeline Jensen	Psychology	Do Ethnic-Racial Socialization Messages Manifest in Technological Communication Between Romantic Partners of Latinx Heritage
Olivia Redd	Sandra Echeverria	Public Health Education	*Physical Activity Promotion Among Latinos Living with Diabetes
Ali Shahbandi	Nadja Cech	Chemistry and Biochemistry	Bacterial Metabolite Profiling via Ultra High-Performance Liquid Chromatography Coupled to High-Resolution Mass Spectrometry
Alexandra Smith	Susan Keane	Psychology	Effect of Surgency and Emotion Regulation on Friendship Quality
Elyse Smith	Brett Nolker	Music	Metacognition in the Individual Musicianship of Preservice Music Teachers
Tamika Smith	Tyreasa Washington	Social Work	**A Family's Impact on the Development of African American Children in Kinship Care: The Pilot Study
Jordan Speas	Denise Gabriel	Theatre	**Mindfulness Art Mindfulness Action (MAMA)
Anastasia Temkina	Robert Anemone	Anthropology	Determining the Alpha Taxonomy of Early Eocene Mammals From the Great Divide Basin of SW Wyoming: The Perissodactyla
Zachary Tuomey	Arthur Murphy	Anthropology	*500 Years of Struggle: Miners, the State and Mining in Sonora, Mexico
Aiko Ueno	Jenny Etnier	Kinesiology	Acute Exercise and Memory in Older Adults (EMO)
Sarah White	Jared McGuirt	Nutrition	Scoping Review of Implicit Bias Curriculum in US Dietetic Undergraduate Programs
Marisha Williams	Rebecca MacLeod	Music	Gender and Race in the Music Classroom: Do Students Prefer Teachers Who Seem More Like Them?
Emilee Witte	Donna Nash	Anthropology	*Chiribaya Ceramic Technology Construction, Clay, and Color
Autumn Yates	Stephen Sills	Sociology	Harm Reduction Trainings: An Evaluation of Confidence and Efficacy

* indicates Globally Engaged project

** indicates Community Based/Engaged project

*** indicates Silicones Inc.



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Undergraduate
Research, Scholarship
and Creativity Office

HOW TO CREATE AN EFFECTIVE POSTER PRESENTATION WORKSHOPS

FEBRUARY 5

**Tuesday
11:00a - 12:00p**

FEBRUARY 13

**Wednesday
10:00a - 11:00a**

FEBRUARY 21

**Thursday
11:00a - 12:00p
12:00p - 1:00p**

FEBRUARY 26

**Tuesday
10:00a - 11:00a
11:00a - 12:00p**

MARCH 13

**Wednesday
10:00a - 11:00a**

MARCH 20

**Wednesday
10:00a - 11:00a
11:00a - 12:00p**

MARCH 21

**Thursday
9:30a - 10:30a**

All workshops will be held in Faculty Center

This workshop series will provide students with a step-by-step process of how to create a poster on a plotter printer. To register please go to <https://workshops.uncg.edu/Workshop-Schedule/548>
Contact ursco@uncg.edu for more info!



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