TechSavy A program of AAUW

University of North Carolina at Greensboro

Saturday, March 30, 2019





Change a girl. Change a community. Change the world.

Learning Everyday Accomplishing Dreams (LEAD) is dedicated to providing the tools and resources that low-income/at-risk preteen girls must have to become productive citizens and active leaders in their communities. Using an evidence-based curriculum, LEAD encourages and mentors girls to aspire and achieve greatness academically, emotionally and creatively.

https://www.leadgirls.org/

2019 NCWIT Guilford County Aspirations Award Recipients

2 – National Honorable Mention Amelia Irvin and Serenity Phillips

11 – Regional Affiliate Winners Advika Kumar, Ambica Ramchandra, Ananya Sharma, Christa Simaan, Gabrielle Campbell, Lillian McNeal, Maggi Mugi, Rithika Jonnalagadda, Sanvi Korsapathy, Suhani Ramchandra, Sydney Barron

3 – Regional Affiliate Honorable Mention Alicia Bao, Kimberly Brown, Trisha Raj



The National Center for Women in Information Technology (NCWIT)

Aspirations in Computing (AiC) provides a long-term community for female technologists, from K-12 through higher education and beyond, encouraging persistence in computing through continuous engagement and ongoing encouragement at each pivotal stage of their educational and professional development. At the 9th grade level, girls may become affiliated by joining NCWIT online for FREE. They may also ask their computer technology and engineering teachers if they are also affiliated, as both girls and educators may apply for recognition awards.

https://www.aspirations.org/

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Welcome to UNCG

During your day, please know that UNCG campus police: Non-emergency number is 336-334-5963. Emergency number is 336-334-4444.

<u>SCHEDULE</u>

Program for Girls 7:45 a.m. to 3:00 p.m.

Time	Activity	Location	
7:45 to 8:30	Check-in and Breakfast	Sullivan 1 st floor lobby	
8:30 to 8:50	Welcoming and opening	Sullivan 101	
9:00 to 10:10	Group 1 Robotics	Sullivan 2 nd floor lobby	
9:00 to 10:10	Group 2 Polymer Chemistry	Sullivan 218	
10:10 to 11:20	Group 1 Polymer Chemistry	Sullivan 218	
10:10 to 11:20	Group 2 Robotics	Sullivan 2 nd floor lobby	
9:00 to 11:00	Group 3 Smart Code of Life	Petty 222	
9:00 to 12:15	Group 4 Build IT	Petty 307	
11:20 to 12:30	Group 3 Smart Code of Life Robotics	Sullivan 2 nd floor lobby	
11:20 to 12:00	Lunch for Groups 1 and 2	Sullivan 1 st floor lobby	
12:30 to 1:10	Lunch for Groups 3 and 4	Sullivan 1 st floor lobby	
12.00 + 1.10			
12:00 to 1:10	Group 1 Strawberry DNA	Eberhart physiology 327	
12:00 to 1:10	Group 1 Strawberry DNA Group 2 The Fruitvale Story	Eberhart physiology 327 Eberhart physiology 323	
12:00 to 1:10 12:00 to 1:10 1:10 to 2:20	Group 1 Strawberry DNA Group 2 The Fruitvale Story Group 2 Strawberry DNA	Eberhart physiology 327Eberhart physiology 323Eberhart physiology 327	
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Program for Adults 7:45 a.m. to 12:30 p.m.

Location

Time	Activity	Location
7:45-8:30	Check-in and breakfast snack	Sullivan 1 st floor lobby
8:30-8:50	Welcome and Opening	Sullivan 101
9:00-10:45	Panel discussion: STEM Beyond the Classroom – year-round enrichment programs, preparing for high school and advanced STEM	Sullivan 200
10:45 to 12:30	Tours of Tech Savvy Sessions in Sullivan, Petty, and Eberhart	From Sullivan 200
12:30 to 1:10	Pizza lunch with girls – after lunch parents may stay and visit classrooms or network	Sullivan 1 st floor lobby
2:20 to 2:45	Closing session	Sullivan 101

Panel Participants are listed on the following pages with descriptions of the programs they offer.

During our parent programs in previous years, we have discussed varied topics from cognitive development of girls to K-12 access and opportunities that are sometimes limited by lack of curriculum in certain schools.

Today we are talking about <u>year-round</u> science, technology, engineering, and math (STEM) programs, various programs in our communities to enhance opportunities. The panelists will share a range of approaches, and we encourage parents and audience members to share ideas and solutions that they have experienced.

Tour of Triad Tech Savvy sessions

UNCG Sullivan Building Department of Chemistry and Biochemistry, Petty Building Computer Science and Physics Labs, Eberhart Building Physiology Labs.

Guilford Apprenticeship Partners, is an initiative sponsored by the Eastern Triad Workforce Initiative, led by several local business partners and GTCC.

Our mission is to:

- Bridge the GAP between high school graduates and career opportunities in IT/Cybersecurity, Advanced Manufacturing, Service Fields (HVAC and Automotive), and Aviation Mechanics.
- Become a "go to resource" for our Education partners to present rewarding career pathways and opportunities for students.

High School students who are Juniors or Seniors in Guilford County can apply for a GAP apprenticeship.

An Apprenticeship is a skilled training program, while working toward a college degree, with NO LOANS and Earning Income!

Upon completion students receive a Journeyperson Certificate by NC Dept. of Labor and an Associate Degree from GTCC.

Tiffany N. Jacobs Apprenticeship Coordinator Guilford Technical Community College Center for Advanced Manufacturing (CAM) 6012 W. Gate City Blvd., Greensboro, NC 27407 Email: <u>tnjacobs@gtcc.edu</u> Direct: 336.334.4822 ext. 50756 Mailing Address: PO Box 309, Jamestown NC 27282 www.gtcc.edu

Girl Scouts Carolinas Peaks to Piedmont (GSCP2P), is one of the 112 councils from across the nation that delivers the Girl Scout program, serving nearly 14,000 girls in central and western North Carolina.

With the support and guidance of nearly 6,400 volunteers, girls in grades K-12 are given opportunities for fun and friendship, while fostering the development of leadership skills and self-esteem. It is a safe environment for girls to engage in activities while they *discover* more about themselves and the community around them, *connect* with others and *take action* to the make the world a better place.

Leslie Richards, <u>Irichards@girlscoutsp2p.org</u> Outside Recruitment Manager 8818 West Market Street Colfax, NC 27235 336-274-8491 https://www.girlscoutsp2p.org/ **4-H is delivered by Cooperative Extension**—a community of more than 100 public universities across the nation that provides experiences where young people learn by doing. For more than 100 years, 4-H has welcomed young people of all beliefs and backgrounds, giving kids a voice to express who they are and how they make their lives and communities better. Through life-changing 4-H programs, nearly six million kids have taken on critical societal issues, such as addressing community health inequities, engaging in civil discourse and advocating for equity and inclusion for all.

Peggie Lewis Joyce 4-H Youth Development (<u>plewis@ncsu.edu</u>) Guilford County Extension Services 3309 Burlington Road Greensboro, NC 27405 <u>https://4-h.org/</u>

North Carolina Mathematics and Science Education Network (NC-MSEN) - an

initiative to increase the pool of North Carolina high school graduates prepared to pursue careers requiring mathematics and science.

The Winston Salem State University (WSSU) NC-MSEN Pre-College Program recruits students from grades 6-12 to focus on mathematics and science careers and targets students from underrepresented populations who have not been prepared to pursue high-level mathematics and science-based courses. The WSSU NC-MSEN Pre-College Program is the largest pre-college program at Winston-Salem State University. The components of the WSSU Pre-College Program include the Saturday Academy, the Summer Enrichment Program, tutoring, mathematics and science competitions, field trips, Parent Involvement for Excellence (PIE) Clubs, leadership development, guest speakers in the fields of science, technology, engineering, and mathematics, and a recognition and awards banquet.

https://www.wssu.edu/academics/colleges-and-departments/college-of-arts-sciences-businesseducation/education/msen/index.html

Penn, Keith O. University Program Spec MSEN (336) 750.2995 pennko@wssu.edu

Carolina Hall, Room 112 601 S. Martin Luther King Jr. Drive Winston-Salem, NC 27110

HandyCapable Network

Mission

To enrich the lives of people with special needs by teaching them technology skills in an inclusive environment. Through our efforts, HandyCapable Network provides greater access to technology to economically challenged people and nonprofits serving those populations.

Part of our mission at **HandyCapable Network** is to provide access to technology, and we believe that youth and children play an integral role in this endeavor. We offer multiple opportunities for youth and children throughout the year, introducing them to technology and helping them learn more about computers and recycling.

Summer Camp

Each summer HandyCapable offers a **summer camp** to elementary and middle school students, providing them the opportunity to learn to build a computer from the motherboard up. Upon completion of camp, the camper can either donate the computer to a family in need or keep the computer for themselves.

HandyCapable Club

HandyCapable also gives students the opportunity to host a **HandyCapable Club** at their school. HandyCapable provides computers to be torn down by the students for recycling. Students are then encouraged to further support HandyCapable's mission by holding recycling drives at their schools or taking part in other fundraising events. Clubs are welcome to tour HandyCapable, too.

http://www.handycapable.org/

Robin Morgan, Board Chair HandyCapable Network 2400 Summit Avenue Greensboro, NC 27405 Phone: 336-209-7360

<u>NOTES</u>

PROGRAM FOR GIRLS

Groups 1 and 2 Curriculum-based Science and Robotics

Polymer Chemistry

This hands-on workshop will give students the opportunity to learn about a common class of chemical compounds called polymers. Students will work in pairs in a chemistry lab and synthesize polymers from different starting materials. We will also use commercially manufactured polymers and perform tests to compare the properties of those materials.

What are Polymers? Many of the materials we use every day are plastics, which are made of large molecules that are similar in structure to a chain. You may know that molecules are made of atoms that are bonded together. So polymers are a special class of molecules. The properties of polymers depend on the atoms that make up the molecules called monomers which join together to make the polymer.

Nadja Cech, UNCG, PhD in Analytical Chemistry, University of New Mexico Michelle Hu, UNCG, PhD in Analytical Chemistry, University of Florida

Robotics - Sullivan 203 and second floor lobby

With LEGO Robotics, everyday toys can be brought to life. Students will work with the latest LEGO Robotics kits, EV3s, and be given the opportunity to create robots using LEGO pieces, wires to attach various sensors, and the "brick", which is a large LEGO block that acts as a programming hub for the robot. In addition to robot designs included within the kit, the students have the freedom to go beyond those instructions and explore new robots with their own designs. With Sphero, the concept of a regular, plastic ball has never been more fascinating. Sphero is a plastic ball with little wheels and batteries inside and a gyroscope to keep it balanced. Sphero can be used in conjunction with LEGO robots to tell stories and provide a visual aid to show how robots and/or Spheros can be used to solve global issues. We will also introduce the sensor equipped Cozmo robot toy programmed using tablet mobile devices. *Christa Simaan and Amelia Irvin*

The Fruitvale Story – Eberhart 323

Exploring earth science concepts such as the water cycle, map making and interpretation, and groundwater pollution is the objective of this module. These concepts are used in an investigation of groundwater contamination in the fictional city of Fruitvale. Students design and carry out a plan for testing water from different parts of the city to determine the contamination's source, severity, extent, and rate of travel. The data is then used to analyze the risk to Fruitvale's water supply. Finally, the students read about several clean-up options and participate in a role-play of a town meeting to decide which clean-up option to use.

Peijia Ku and Melika Osareh

Strawberry DNA – Eberhart 327

DNA contains the biological instructions that give each of us our uniqueness. Swiss biochemist Frederich Miescher first observed DNA. During this workshop, students will complete an experiment to isolate, extract, and observe DNA from a strawberry.

The long, thick fibers of DNA store the information for the functioning of the chemistry of life. DNA is present in every cell of plants and animals. The DNA found in strawberry cells can be extracted using common, everyday materials. We will use an extraction buffer containing salt to break up protein chains that bind around the nucleic acids and dish soap to dissolve the lipid (fat) part of the strawberry cell wall and nuclear membrane. This extraction buffer process will help provide us access to the DNA inside the cells.

Peggy Lewis Joyce, NC State University

Groups 3 and 4

Smart Code of Life - Petty 222 Computer Lab

This innovative 12-hour program integrates coding techniques such as animation, internet of things, app design, and robotics with concepts ranging from entrepreneurship to neural networking. Developed by upper level high school students and funded by the National Center of Women in Information Technology, Smart Code of Life is more than a sample of technologies. It is the opportunity for girls to move quickly from one topic to another, guided by nearpeer mentors.

Ambica Ramchandra, STEM Early College at A&T

Build IT - Petty 307

The main program goal is that the girls should learn how to assemble a computer and understand its parts using real computers because many people generally do not usually understand the electronics they use.

There are four components to the lesson plan:

Instruction: The girls will be educated on the different parts of the computer using PowerPoint, video, flash cards, and writing exercises.

Practice: The girls will identify and swap out parts using disassembled computers. The girls will become able to identify the parts and say how they work, then they will be helped by instruction assistants to learn the techniques of reassembly.

Construction: Girls will build the entire computer from scratch in groups. **Analysis:** The girls present what they might adjust to create the computer of the future to address a social issue. Girls will gain experience discussing futuristic ideas such as 3D printing, holographic imaging, virtual reality, and artificial intelligence for their computer.

Aaliyah Wynn, Guilford Technical Community College

<u>NOTES</u>

MEET THE PRESENTERS

Nadja Cech Nadja cech@uncg.edu earned a BS degree in chemistry from Southern Oregon University at the age of 19. This degree was funded in part by the medicinal plant *Echinacea*, which she helped to cultivate on her family's organic farm. In 2001, Dr. Cech was awarded her PhD in Analytical Chemistry from the University of New Mexico, where she worked under the direction of Dr. Chris Enke, co-inventor of the triple quadrupole mass spectrometer. Dr. Cech's initial research efforts were focused on fundamental studies of electrospray ionization mass spectrometry, and her review on this topic is one of the most widely referenced in this field. When she joined the faculty at the University of North Carolina Greensboro in 2001, Dr. Cech was excited to apply her theoretical studies of mass spectrometry to her long-dormant interest in medicinal plants. She currently supervises a dynamic group of 12 undergraduates, graduate students, and postdoctoral research associates. Dr. Cech has been recognized for both her teaching (with the 2008 University of North Carolina Greensboro College Teaching Award) and her research (with the 2011 University of North Carolina Greensboro Junior Research Excellence Award) and has published 34 peer-reviewed papers.

Amelia Irvin <u>airbound4me@gmail.com</u> Junior Ragsdale High School

I was involved in the very first Triad Tech Savvy and attended IT is for Girls. Last year, I had the opportunity to participate as a speaker to encourage girls to find their STEM and share how I found my interest in aviation. I had already discovered robotics through Girl Scouts that led me into computer programming. Currently, I am on the code team programming in JAVA for an all-girls high school robotics team. This year, I was recognized as a Class Act on Fox 8 News for my Girl Scout Gold Award project, "Aviation Day for Girls."

Being an active member of Girl Scouts since age 6, I wanted to try something new. The spring of my seventh-grade year, I saw a commercial for a new aviation summer camp at Triad Aviation Academy. It was called "Aero Camp," and it was flight camp for youth. I found so much confidence from trying, and I actually started earning flight log hours to obtain my pilot's license.

I plan to pursue a degree as a software engineer and work in the field of avionics. My experiences will provide a platform to be a role model encouraging young girls to participate in STEM activities.

Michelle Hu, <u>h hu2@uncg.edu</u>, Department of Chemistry Lecturer, UNCG Dr. Hu completed her PhD in Analytical Chemistry at the University of Florida, Gainesville. Her research interest is to produce superior enzyme catalysts for production of hydroxymethyl furfural (HMF) from fructose or other monosaccharide feedstock.

Peijia Ku, **p** ku@uncg.edu, graduate student at UNCG: When I was little, I was attracted by the fantastic explanation of daily life phenomenon in the science books, just like revealing the truth of magic. Then I started loving thinking about what was the cool part behind the normal thing and decided to pursue science while I was in high school.

Considering the environmental problems around the globe, I decided to study in Environmental Engineering. I learned environmental remediation and how to control the quality of our air, water, and soil. While studying for my master's degree, I learned how the pollutants/toxins affect organisms and how metabolic mechanisms work inside the body.

I feel very lucky that I could come to UNCG for my Ph.D. study in Environmental Health Science, doing research on climate change and mercury cycling. I learned a lot from here, not only in knowledge but also in critical thinking. I am currently a Ph.D. candidate in Environmental Health Science in the Department of Biology. Keeping passion in Science makes you move forward!

Peggie Lewis Joyce, <u>plewis@ncsu.edu</u>, graduated from UNCG with her Bachelor's degree in Biology. She received her Master's degree from NC State University. Peggie works for NC State University with the 4-H Youth Development program in Guilford County. As the 4-H Agent, Peggie connects youth 5-18 years old with experiential learning opportunities so they can develop leadership, citizenship and community service skills. She has worked with the NCSU General Hugh Shelton Leadership summer challenge program as an instructor for nine years. This program provides positive learning experiences to high school students as they focus on The General's Five Pillars of Leadership including: Modeling the Way, Inspiring a Shared Vision, Challenging the Process, Enabling Others to Act, and Encouraging the Heart. <u>plewis@ncsu.edu</u>

"I love working with 4-H because it helps young people find their voice!"

Melika Osareh, <u>melikao72@gmail.com</u> Freshman, UNCG Upon entering college, I was eager to take part in undergraduate research opportunities. Although some told me it was too early for me to worry about research, I knew it was never too soon (or too late!) to go after one's passions. Through one of the Triad Tech Savvy Events, I came to learn about the research of Dr. John Z. Kiss, professor and dean of the College of Arts & Sciences at UNC-Greensboro who has been working with NASA for about 32 years. His research tied in my favorite subjects: biology and space! After a meeting with him, I was allowed to take part in his research as a freshman. Dr. Kiss's research studies how plants react to gravity and light stresses by replicating here in his laboratory at UNCG an experiment which was sent to space. Through this research we are trying to find the gene that allows plants to be most tolerant to microgravity conditions, which will later support astronauts in long space travels. Being able to partake in this research has been (and most probably will continue to be) the most exciting experience I've had as a college student, and I'm grateful to Triad Tech Savvy for introducing me to it.

Ambica Ramchandra <u>arramchandra@aggies.ncat.edu</u> a senior at STEM Early College at A&T

Ambica designed the integrated coding program, Smart Code of Life, so that disadvantaged youth may have the experiences and gain the knowledge that she has enjoyed. The project was submitted to the National Center for Women in Information Technology in August 2018 and was awarded funding for a fall 2018 session and a spring 2019 session. The program includes not only a range of coding techniques such as MIT App Design and MIT Scratch Animation, but also features information on the concepts of neural networking and entrepreneurship.

Christa Simaan <u>cesimaan@gmail.com</u> Junior Northwest Guilford High School

I found STEM in the first grade. I loved to play with Legos and my interest kept growing. In fourth grade, I joined my first First Lego League (FLL) team and continued with that for several years. Two years ago, I mentored a team at the Natural Science Center. I have been on an FIRST Tech Challenge (FTC) team for two years now and love it. I am the session leader for Robotics at the IT is for Girl's Summer Camp at UNCG and at Appalachian State in 2018. Before that, I attended the IT is for Girls summer camp and Tech Savvy many times and loved it! I was the session assistant in Internet of Things and Virtual Reality in 2017. I am very interested in math and science and hope to pursue a career in STEM to further my love for it. My advice would be to always look for opportunities and do the things you enjoy.

MEET THE VOLUNTEERS

American Association of University Women (AAUW) Greensboro

Laura Tew – STEM Outreach Coordinator Lena Murrill-Chapman, Branch President

Brandy Black Denise Brown Barbara Carter Libby Haile Millie Hoffler Foushee Kelly Irvin Peggy Knox Leona La Perriere Dianne Lytle Sue Metz Elaine Morehead Cristina Moreira Mary Fran Schickedantz Ann Schwabeland Stephanie Ghotbi-Taheri Aaliyah Wynn, Intern Lauryn Wynn, Photographer

Aspirations in Computing Volunteers

Dalal Ahmidouch Sulaf Ali Alicia Bao Zoya Bawangaonwala Kimberly Brown Amelia Irvin Raquel Jones Sanvi Korsapathy Lillian McNeal Maggi Mugi Ambica Ramchandra Suhani Ramchandra Ananya Sharma Christa Simaan Hope Stephens Janice Wong Yasmin Zaraf

University of North Carolina at Greensboro

College of Arts and Sciences, Dean John Kiss Departments of Chemistry/Biochemistry, Biology, Physics, Computer Science, and Mathematics Office of Research and Engagement, Vice Chancellor Terri Shelton Jackson Library Digital Media Commons, Dean Martin Halbert

Mitch Croate, PhD Barbara Hemphill Andrew Hollady Michelle Hu, PhD Mary Katsikas Matina Kalcounis-Ruppell, PhD Peijia Ku Luis Mejia Delight Morehead Cristina Moreira, PhD Melika Osareh Chantel Peltzer Trina Porcher Madeline Tillman Warren Vidar Alyssa Wharton

2019 IT Is For Girls AAUW UNCG Summer Camp July 29th – August 2nd.

Five-day all-inclusive camp, 8 a.m. to 4:30 p.m., Monday through Friday

Rising 5th through 8th grade girls

\$160 pre-registration April 1st to May 20th

\$200 registration after May 20th

Needs-based scholarships will be awarded May 20th based on pre-registration follow-up with parents. Curriculum will include: App Design, Kodu Game Design, Internet of Things, Robotics, Computer Design and Engineering, Film Festival, and various enrichment activities such as 3-D printing.

Lunch included every day. Capstone team projects will be presented for parents, judges, and guests on Friday afternoon August 2nd.

Registration: https://wiit.uncg.edu/ For information Email: wiit@uncg.edu

2019 Innovate for Good App State Summer Camp July 22nd – July 26th.

Rising 4th to 10th grade Girls

Walker College of Business, Appalachian State University, Boone, NC Cost: \$225 (day camp fee); \$475 (Residential, check-in Sunday July 21 at 3 pm) Registration required; limit of 55 students.

Flyer and registration information can be found at https://innovate.appstate.edu/

Limited need-based scholarships are available with funding from NCWIT ASPIRE IT.. Please email for details to <u>innovate@appstate.edu</u> or Dr. lyer (<u>iyerLs@appstate.edu</u>)



https://aspireit.aspirations.org/



Want to have fun like a G.I.R.L.?

Come see what Girl Scouts is all about and discover all the fun we can have together! Learn about sports and careers, sample the arts, explore the sciences and travel the world! With us, you'll make a bunch of friends, learn how exciting life is and have a ton of adventures over and over again!

Any girl in grades K-12 can join the fun at Girl Scouts.

Whether you want to be part of a troop, sign up for exciting series or events, explore the outdoors or travel the world, each age level has something for you.

Girl Scouts is a great value! Membership starts at just \$25. Of course, we don't want this to be a barrier, so don't hesitate to ask us about financial assistance.

"The following materials/statements/programs are not endorsed by GCS nor do they represent the district's position or policy."



Make a difference! Take action in vour community.

Get creative! Think outside the box to solve problems.

Explore new things! Be courageous, strong and adventurous.

Inspire others!

Help her develop skills and confidence.

Join the fun and register today at www.BeAGirlScout.org Have questions about Girl Scouts? Contact our staff at info@girlscoutsp2p.org or 800-672-2148!



Join the American Association of University Women, Greensboro Branch. Help us with this and other initiatives for women and girls in our community. Shape the Future discount memberships available today.

> AAUW of Greensboro, North Carolina P.O. Box 10754 Greensboro, NC 27404 <u>http://greensboro-nc.aauw.net/</u> <u>aauwgreensboro@gmail.com</u>