Triangle Women in STEM

MAY 14TH
8AM-2PM

2022 GIRL SCOUTS STEM DAY @ DUKE UNIVERSITY

Triangle Women in STEM

PLANNING COMMITTEE

Sondra Rivers-Kobler
STEM Day Lead
Credit Suisse
(retired)

Holly Leddy, Ph.D.
Collaborative Partner
Duke University

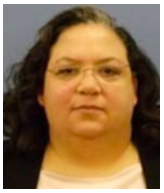
Raijene Walker
Collaborative Partner
Girl Scouts NCCP

Laura Downie
Robotics
Fidelity Investment

Laura Michek
Robotics
Fidelity Investment

Natasha Wiley
BioTech/DNA
Biogen

Ellery Ward
BioTech/DNA
Biogen



Natalie McQueen
Clean Energy
Credit Suisse

Kimla Lee
Clean Energy
Red Hat

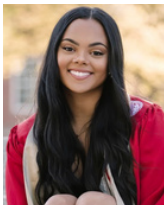
Erica Boyles
Sci. of Cosmetics
IBM

ShuDon Brown
Sci. of Cosmetics
IBM

Catherine McKenas, Ph.D.
Duke Lemurs
Duke University

Justin Gladman
Duke Lemurs
Duke University

Alyssa Sandy
Lead Comms
IBM



Gianna Flowers
Communications
Motorola

SCHEDULE OF EVENTS

Triangle Women in STEM

STUDENTS

Check In & Breakfast
Fitzpatrick-Twinnie
8AM-8:45AM

Opening
Fitzpatrick Schiciano Auditorium
9AM-9:20AM

STEM Workshops
9:30AM-12:00PM

- **Fun-damentals of Biotechnology/DNA**
  Wilkinson 130
- **Clean Energy: Wind Turbines**
  Wilkinson 136
- **Science of Cosmetics**
  Wilkinson 126
- **Robotics & Artificial Intelligence**
  Wilkinson 132
- **X-ray Paleontology of Duke Lemur**
  Fitzpatrick Schiciano Auditorium

Lunch & Photo Booth
Fitzpatrick Lobby
12:00PM-1:00PM

Career Panel
Fitzpatrick Schiciano Auditorium
1:00PM-1:45PM

Closing
Fitzpatrick Schiciano Auditorium
1:45PM-2:00PM

PARENTS

Check In & Breakfast
Fitzpatrick-Twinnie
8AM-8:45AM

Opening
Wilkinson 021 Auditorium
9AM-9:20AM

Parents Forum
9:30AM-12:00PM
Wilkinson 021 Auditorium

- **Introduction**
- **Impact of Social Media on Teens**
  Rosa Li, Ph.D., UNC-CH
- **The Need for Social Media Regulations**
  Hiwot Tesfaye, Microsoft
- **Artificial Intelligence Ethics**
  Phaedra Boinodiris, IBM
- **College Admissions Panel**

Lunch & Photo Booth
Fitzpatrick Lobby
12:00PM-1:00PM

Career Panel
Wilkinson 021 Auditorium
1:00PM-1:45PM

Closing
Wilkinson 021 Auditorium
1:45PM-2:00PM

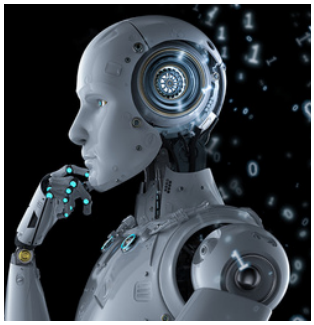
STEM WORKSHOPS

Triangle Women in STEM

Clean Energy

Leads: Kimla Lee & Natalie McQueen

In this workshop, students will examine wind power—a renewable energy resource with increasing importance to our society. Students will learn how to harness wind power by constructing turbine blades.



Robotics & Artificial Intelligence

Leads: Laura Downie & Laura Michek

In this workshop, students will build robots (Lego's Mindstorm EV3 kits) and program them, and command the robot to carry out actions and bring them to life.

Fun-damentals of Biotechnology/DNA

Leads: Ellery Ward & Natasha Wiley

In this workshop you will learn all about the exciting field of Biotechnology through hands-on activities. Students will perform a scientific procedure utilizing M&Ms and food dye. They will learn about food dye, molecule sizes, and how scientists use tools and techniques to observe and manipulate DNA and proteins.

Science of Cosmetics

Leads: Erica Boyles & ShuDon Brown

In this workshop, students will learn what chemical engineering is and what a chemical engineer does through the lens of cosmetics. Students will learn how chemicals mix and form new useful products that can be used as cosmetics and self-care products.

X-ray Paleontology of Duke Lemur

Leads: Catherine McKenas, PhD & Justin Gladman

In this workshop, students will learn how two different STEM fields – engineering and paleontology – work together at Duke to unlock the secrets of lemurs! Using x-ray vision with tools like the MicroCT lets us look into rocks that hold ancient lemur bones.

PARENTS FORUM

Triangle Women in STEM

Panel Moderators

Tsegga Medhin
UN Women USA NC / The Pearl Institute

Heather Vincent, Ph.D.
Duke University

Impact of Social Media on Teens

Rosa Li, Ph.D. | UNC-Chapel Hill

Rosa Li a teaching assistant professor in the Department of Psychology and Neuroscience at UNC-Chapel Hill, where she teaches undergraduate courses in developmental psychology, cognitive neuroscience, and decision sciences. She is also the outreach coordinator for the Winston Family Initiative in Technology & Adolescent Brain Development and oversees TeensAndTech.org, which strives to make psychological research on how adolescents' brain development affects their technology use and well-being.

The Need for Social Media Regulations

Hiwot Tesfaye | Microsoft

Hiwot is a Technical Advisor in Microsoft's Office of Responsible AI where she collaborates and partners with teams across the company to incubate and prototype new patterns, practices, and tools to put responsible AI principles into practice. Hiwot comes to Microsoft from SAS Institute where she most recently helped to create SAS's first Data Ethics Practice and served as the lead data scientist. During her time at SAS, Hiwot developed and operationalized a customer churn predictive model for internal use and later worked as Sr. Data Scientist in SAS' Health and Life Sciences team where she advised health care customers on how to best leverage SAS software to get the most out of their data-driven initiatives. While at SAS Hiwot served on the leadership council of SAS's first Black employee resource group – the Black Initiatives Group (BIG) – since its inception, where she led and participated in efforts to recruit, retain, and promote Black talent at SAS.

Artificial Intelligence Ethics

Phaedra Boinodiris | IBM

Phaedra Boinodiris is dedicated to the mission of STEAM and inclusivity in her community with a particular passion in AI and Ethics. She is a prolific public speaker and author, she is on the IBM Academy of Technology's leadership council, a Fellow of the RSA, and serves on the advisory boards of several academic institutions. She is currently pursuing a PhD in AI and Ethics thanks to the European Union. She won the United Nations Woman of Influence in STEM and inclusivity Award in 2019, received the Social Innovator Award by IBM in 2018, received the 2014 Kenan Flagler Young Alumni Award, became a Fellow of the American Democracy Institute in 2011 and in 2007 was recognized by Women in Games International as being one of the Top 100 Women in the Games industry.

COLLEGE PANEL

Alonzo Alexander, Ph.D.
NC State University

Sara Mackenzie
NC State University

Laurel Burkbauer
Duke University

Sarah Overman
Research Triangle High School

Mattie Gaddy-Parks
NC School of Science and Mathematics

Ann Taylor Shaw
UNC-Chapel Hill

Stephanie Gant
NC Central University - BRITE

STEM CAREER PANEL

Triangle Women in STEM

Joanna Brooke
Duke University - BS in Psychology

Tonya Lane
Burt's Bees - Cosmetics Scientist

Leah Bellcase
NC State University - BS in Materials Science and Engineering

Cydney Nicholson
Campbell University - Ph.D. in Pharmaceutical Science

Bettie Closs
Harvard University, NC School of Science & Mathematics

Blair Pearce
Credit Suisse

Vanessa Cupil Garcia
Duke University - Ph.D. in Chemistry

Ellie Scott
Fidelity Investments

Trinite Klamadji
Lenovo - Customer Success Engineer

Triangle Women in STEM

SPECIAL THANKS TO OUR PARTNERS & SPONSORS

Duke Pratt School of Engineering

Triangle Women in STEM

Duke Trinity College of Arts & Sciences

Credit Suisse

girl scouts north carolina coastal pines

Red Hat

Fidelity Investments

Coastal Credit Union

RTNN Research Triangle Nanotechnology Network

IBM

Biogen

MANY THANKS TO OUR VOLUNTEERS!

Sophia Liu, Amazon
Natalia Olson, American Chemical Society
Ritu Mathur, AskBio
Brandi Le, Avioq
Amy Cooper, Bandwidth
Lori Mills, BASF
Kristen Borchert, BD
Hang Vu, Biogen
Ellery Ward, Biogen
Natasha Wiley, Biogen
Vanessa Michelou, Biomason
Tonya Lane, Burt's Bees
Cydney Nicholson, Campbell University
Kelly Curtin, ChickTech
Natalie McQueen, Credit Suisse
Laxmi kirti Bachu, Credit Suisse
Nikki Bowen, Credit Suisse
Kate Edgren, Credit Suisse
Michelle Hall, Credit Suisse
Blair Pearce, Credit Suisse
Daejha Smith, Credit Suisse
Selena Wright, Credit Suisse
Sondra Rivers-Kobler, Credit Suisse (retired)
Matt Borths, Duke Lemur Center
Holly Leddy, Ph.D., Duke University
Perisa Ashar, Duke University
Joanna Brooke, Duke University
Laurel Burkbauer, Duke University
Vanessa Cupil Garcia, Duke University
Maya Evanitsky, Duke University
Alyssa Florwick, Duke University
Atefeh Ghazavi, Duke University
Cait Hamele, Duke University
Ashley Huggins, Ph.D, Duke University
Shruti Pandey, Duke University
Meghan Reynolds, Duke University
Amy Strong, Duke University
Quiana Tyson, Duke University
Heather Vincent, Ph.D., Duke University
Karie Whitman, Duke University
Justin Gladman, Duke University
Catherine McKenas, Ph.D., Duke University
Nan Jokerst, Ph.D., Duke University
Ebony Thomas Ross, Durham County Dept of Ed
Shirin Jooybanpour, Eastern Carolina University
Akshaya Polaepalli, FDBU
Erica Boyles, Fidelity Investments
Murali Mohan Aravapalli, Fidelity Investments
Justine Bartoloni, Fidelity Investments
Michelle Bayait, Fidelity Investments
Liz Burke, Fidelity Investments
Laura Downie, Fidelity Investments
Hashma Javed, Fidelity Investments
Ellie Scott, Fidelity Investments
Liz Simon, Fidelity Investments
Priya Srivastava, Fidelity Investments
Soumya Waddiparthi, Fidelity Investments
Laura Micek, Fidelity Investments
Marie Hopper, FIRST North Carolina
Sarah Mosier, GEI Consultants
Raijene Walker, Girl Scouts NCCP
Betty Closs, Harvard University
Alyssa Sandy, IBM
ShuDon Brown, IBM
Sachin Avasthi, IBM
Phaedra Bonodiris, IBM
Megan Cruz, IBM
Michelle Mitchell, IBM
Payal Patel, IBM
Shailaja Patel, IBM
Nichole Stewart, IBM
Vidya Unnikrishnan, IBM
Kianna Wilder, IBM
Joan Nelson, IBM
Sharlene Batts, Jaggaer
Deidra Bowen JLL, Inc
Trinite Klamadji, Lenovo
Lashuane Allen, Martin Marietta
Hiwot Tesfaye, Microsoft
Beverly Mills, Mills Auto Group
Gianna Flowers, Motorola
Siobahn Grady, Ph.D, NC Central University
Stephanie Gant, NC Central University - BRITE
Sterling Johnson, NC Dept of Transportation
Mattie Gaddy-Parks, NC School of Science and Mathematics
Alonzo Alexander, Ph.D., NC State University
Leah Bellcase, NC State University
Alexandra Henriques, NC State University
Sara Mackenzie, NC State University
Betsy DeVaul, NetApp
Lori Lewis, NYPD (retired)
Danica Cabral, Precision Biosciences
Kimla Lee, Red Hat
Sarah Buchanan, Red Hat
Sneha Dokania, Red Hat
Willy Hardy, Red Hat
Deepika Ramakrishnan, Red Hat
Lisa Wojcik, Red Hat
Sarah Overman, Research Triangle High School
Melissa Haley, Rho, Inc.
Audrey Ford, RTI International
Rahime Cvetkovic, Teleflex
Niti Goel, TrialSpark
Tsegga Medhin, UN Women USA NC / The Pearl Institute
Rosa Li, Ph.D., UNC-Chapel Hill
Ann Taylor Shaw, UNC-Chapel Hill
Kathryn Tippey, Willow Tree Apps
Jillian DePinto, Wolfspeed, Inc
Madison Paul, Wolfspeed, Inc

Heartfelt thanks to our amazing team of volunteers for their commitment to engage, inspire, and impact the next generation of "young women in STEM". The volunteers represent more than 45 organizations in the Triangle region.

—Sondra Rivers-Kobler

CONNECT WITH US!

@triwistem

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https://www.trianglewomeninstem.org/

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Don't forget to use our hashtags!

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