February 22—23, 2019

Sawmill Creek Resort | Huron, Ohio

ocwic.org
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome</td>
<td>4</td>
</tr>
<tr>
<td>OCWiC 2019 Organization</td>
<td>5</td>
</tr>
<tr>
<td>Schedule</td>
<td>6</td>
</tr>
<tr>
<td>Venue Map</td>
<td>8</td>
</tr>
<tr>
<td>Keynote Speakers</td>
<td></td>
</tr>
<tr>
<td>Helen E. Patton</td>
<td>9</td>
</tr>
<tr>
<td>Mel McGee</td>
<td>10</td>
</tr>
<tr>
<td>Posters</td>
<td>11</td>
</tr>
<tr>
<td>Panels</td>
<td>14</td>
</tr>
<tr>
<td>Workshops</td>
<td>15</td>
</tr>
<tr>
<td>Birds of a Feather (BoF)</td>
<td>16</td>
</tr>
<tr>
<td>Short Talks</td>
<td>17</td>
</tr>
<tr>
<td>Research Talks</td>
<td>18</td>
</tr>
<tr>
<td>Biographies</td>
<td>19</td>
</tr>
</tbody>
</table>
I want to welcome you to the 2019 Ohio Celebration of Women in Computing held at the fabulous Sawmill Creek Resort in Huron, Ohio! This year’s program is comprised of workshops, research talks, Birds of a Feather, Q&A panels and short technical talks. I encourage you to meet new people and to not be afraid to ask your questions. We are here to help you.

Throughout the next two days, you will have an opportunity to obtain feedback on your resume, to hear from undergraduate and graduate researchers, from professionals in the industry and academia workplaces, and listen to two FANTASTIC keynote presenters:

♦ Helen E. Patton—CISO at The Ohio State University
♦ Mel McGee—Founder & CEO of We Can Code IT

On behalf of myself and all who were involved with making this celebration happen, we hope you leave knowing there are many different roles in computing, that it’s ok to change your focus as your interests evolve and that there is a community out there that can encourage you along the way!

We are glad you came and now...go mingle!

Sincerely,

Ashley Kline-Tozzi | General Chair

Special Thanks to:

♦ ACM-W
♦ All of our AMAZING Sponsors
♦ OCWiC Planning Committee
♦ OCWiC Council
♦ Volunteers
♦ Resume Reviewers (see list below)

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Alicia Pearlman, Schoolcraft College
Angela Guercio, Kent State University
Catalina Reasoner, OCLC
Cindy Heckman, Raytheon
Jacqueline Cahill, Caterpillar
Janell Vickers, Bon Secours Mercy Health
Jong Kwan “Jake” Lee, Bowling Green State University
Laurie Crawford, Franklin University
Malavika Melkote, Owens Corning
OCWiC 2019 ORGANIZATION

OCWiC MISSION:

Engaging and empowering Ohio women in computing by building community, celebrating success, and illuminating possibility.

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Ashley Kline-Tozzi  |  Celebration General Chair |  Celebration@ocwic.org
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Session Chair</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 - 3:00 PM</td>
<td>Welcome Reception</td>
<td></td>
<td></td>
<td>Pathway</td>
</tr>
<tr>
<td>3:00 - 3:30 PM</td>
<td>Welcome &amp; Introductions</td>
<td>Ashley Kline-Tozzi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:30 - 4:30 PM</td>
<td>Keynote - Information Security: But Why?</td>
<td>Helen E. Patton - The Ohio State University</td>
<td>Ashley Kline-Tozzi</td>
<td>North Hall (White Tail, Brook Trout, Blue Heron, Wildflower)</td>
</tr>
<tr>
<td>4:30 - 4:50 PM</td>
<td><strong>Diamond Sponsor Talk</strong> Eaton Corporation</td>
<td>Raven Aurand - Jessica Householder</td>
<td>Mary Jean Blink</td>
<td></td>
</tr>
<tr>
<td>4:55- 5:15 PM</td>
<td><strong>Diamond Sponsor Talk</strong> Owens Corning</td>
<td>Annie Baymiller</td>
<td>Mary Jean Blink</td>
<td></td>
</tr>
<tr>
<td>5:15 - 5:30 PM</td>
<td>Poster Lightning Talks</td>
<td>Students</td>
<td>Cindy Marling</td>
<td></td>
</tr>
<tr>
<td>5:30- 6:15 PM</td>
<td>Poster Session</td>
<td></td>
<td>Cindy Marling</td>
<td>Pathway</td>
</tr>
<tr>
<td>6:15 - 7:45 PM</td>
<td>Dinner</td>
<td></td>
<td>Ashley Kline-Tozzi</td>
<td>South Hall</td>
</tr>
<tr>
<td>7:45 - 8:00 PM</td>
<td>Break</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:00 - 9:45 PM</td>
<td>Resume Review</td>
<td>Lisa Pierson</td>
<td>Settler's Cabin</td>
<td></td>
</tr>
<tr>
<td>8:00 - 8:45PM</td>
<td><strong>Workshop:</strong> Got Doubt? Staying Authentic in Your Computing Major</td>
<td>Rachelle Kristof Hippler - Christopher J. Mruk</td>
<td>Laura Leventhal</td>
<td>White Tail</td>
</tr>
<tr>
<td>8:00 - 8:45PM</td>
<td><strong>Workshop:</strong> Growing a University ACM-W chapter</td>
<td>Emily Engle</td>
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<td>Brook Trout</td>
</tr>
<tr>
<td>8:00 - 8:45PM</td>
<td><strong>BoF:</strong> If We Build Makerspaces, Will They Come? Perspectives from a Liberal Arts Environment</td>
<td>Jaimie Kelley - Federico Read Grullon</td>
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<td>Wildflower / Blue Heron</td>
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<tr>
<td>8:00 - 8:45PM</td>
<td><strong>BoF:</strong> Code Review Culture &amp; Effectiveness</td>
<td>Katherine Papcun - Emily Warren - Sarah Whelan - Benjamin Horstman</td>
<td>Olga Nagdaseva</td>
<td>Osprey</td>
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<td>8:45 - 9:00 PM</td>
<td>Break</td>
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<td>9:00 - 9:45PM</td>
<td><strong>Workshop:</strong> Wearable Technology for Fun and Fashion</td>
<td>Jaimie Kelley - Caileigh Marshall - Lauren Robbins</td>
<td>Olga Nagdaseva</td>
<td>White Tail</td>
</tr>
<tr>
<td>9:00 - 9:45PM</td>
<td><strong>Workshop:</strong> Making Meetings Meaningful: A Workshop for the Real World</td>
<td>Andrea Jacobs - Eva Bradshaw</td>
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<td>Brook Trout</td>
</tr>
<tr>
<td>9:00 - 9:45PM</td>
<td><strong>BoF:</strong> Let's Talk Internships</td>
<td>Jenna Crosby - Mindy Berthold</td>
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<td>Wildflower / Blue Heron</td>
</tr>
<tr>
<td>9:00 - 9:45PM</td>
<td><strong>BoF:</strong> TEALS - Computer Science in Every High School</td>
<td>Katherine Papcun - Jake Taylor</td>
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<td>Osprey</td>
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<td>9:45—10:00PM</td>
<td>Break</td>
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<tr>
<td>10:00 - 12:00 AM</td>
<td>Party!</td>
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<td>South Hall (Golden Oak, Red Cedar)</td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Speaker</td>
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<tr>
<td>8:00 - 9:00 AM</td>
<td>Breakfast</td>
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<td>Iroquois Nation</td>
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<tr>
<td>9:00 - 9:15 AM</td>
<td>Break</td>
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<tr>
<td>9:15 - 9:35 AM</td>
<td>Research: Topic and Importance Evaluation of Tor services</td>
<td>Mahdieh Zabihimayvan Derek Doran</td>
<td></td>
<td>Wildflower / Blue Heron</td>
</tr>
<tr>
<td>9:15 - 10:00 AM</td>
<td><strong>Industry Panel I:</strong> Keeping up with Technology</td>
<td>Mindy Berthold Jacqueline Cahill Tracy Oriti</td>
<td>Mary Jean Blink</td>
<td>White Tail</td>
</tr>
<tr>
<td>9:15 - 10:00 AM</td>
<td><strong>Academic Panel I:</strong> Graduate</td>
<td>Amy Copus Chris Kiel</td>
<td>Dianne Foreback</td>
<td>Brook Trout</td>
</tr>
<tr>
<td>9:15 - 9:25 AM</td>
<td><strong>Short Talk:</strong> MLCert Kernel Perceptron</td>
<td>Robin Kelby Alexander Bagnall Gordon Stewart</td>
<td>Jodi Tims</td>
<td>Hawk</td>
</tr>
<tr>
<td>9:30 - 9:40 AM</td>
<td><strong>Short Talk:</strong> Network Data Analysis to Predict Future Network Traffic</td>
<td>Astha Syal Alina Lazar</td>
<td>Jodi Tims</td>
<td></td>
</tr>
<tr>
<td>10:00 - 10:15 AM</td>
<td>Break</td>
<td></td>
<td></td>
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<tr>
<td>10:15 - 10:35 AM</td>
<td>Research: Predicting Network Traffic using TCP Anomalies</td>
<td>Alina Lazar</td>
<td></td>
<td>Wildflower / Blue Heron</td>
</tr>
<tr>
<td>10:15 - 11:00 AM</td>
<td><strong>Industry Panel II:</strong> Building a Career in Technology</td>
<td>Annie Baymiller Cyndee Burke Debbie Kilgore</td>
<td>Mary Jean Blink</td>
<td>White Tail</td>
</tr>
<tr>
<td>10:15 - 11:00 AM</td>
<td><strong>Academic Panel II:</strong> Undergraduate</td>
<td>Jong Kwan Lee Cindy Marling</td>
<td>Dianne Foreback</td>
<td>Brook Trout</td>
</tr>
<tr>
<td>10:15 - 10:25 AM</td>
<td><strong>Short Talk:</strong> Impactful Interviewing for Women in IT</td>
<td>Olga Nagdaseva</td>
<td>Karen Davis</td>
<td>Hawk</td>
</tr>
<tr>
<td>10:30 - 10:40 AM</td>
<td><strong>Short Talk:</strong> Electronic Form Processing Increasing Productivity &amp; Efficiency Across Campus</td>
<td>Tasha Wells</td>
<td>Karen Davis</td>
<td>Hawk</td>
</tr>
<tr>
<td>11:00 - 11:15 AM</td>
<td>Break</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:15 - 12:30 PM</td>
<td>Career Fair</td>
<td></td>
<td></td>
<td>South Hall</td>
</tr>
<tr>
<td>11:15 - 12:30 PM</td>
<td>TEALS (TEALS group only)</td>
<td>Eva Bradshaw</td>
<td></td>
<td>White Tail</td>
</tr>
<tr>
<td>12:30 - 1:10 PM</td>
<td>Lunch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:10 - 1:30 PM</td>
<td><strong>Diamond Sponsor Talk:</strong> Preferred Consulting</td>
<td>Debbie Kilgore</td>
<td>Mary Jean Blink</td>
<td>Iroquois Nation</td>
</tr>
<tr>
<td>1:30 - 2:30 PM</td>
<td><strong>Keynote:</strong> Success is NaN</td>
<td>Mel McGee</td>
<td>Ashley Kline-Tozzi</td>
<td></td>
</tr>
<tr>
<td>2:30 - 3:00 PM</td>
<td>Wrap-up &amp; Farewell</td>
<td>Ashley Kline-Tozzi</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Information Security: But Why?**

**Abstract:**
Join Helen as she explores what it means to work in Information Security. Learn about Women in Information Security – what kinds of people choose this career? Then, think about how to successfully manage the security of your own information. Along the way, you’ll learn why our society needs women and men to think broadly about information security risks and threats, and how to manage them.

**Biography**
With more than 23 years of experience in the Security, Risk and Resiliency profession, Helen Patton (CRISC, CISA) enjoys managing information, technology and operational risk for global organizations, and advocates using Information Risk and Security Management to enable the mission of any Institution.

Since July 2013 Helen has assumed the role of Chief Information Security Officer at The Ohio State University, where she works to enable a risk-aware culture. She manages the Enterprise Security team, and oversees Information Risk and Control Governance across the university. Prior to working at OSU, Helen spent nine years in a Fortune 50 Financial Services firm, where she was responsible for creating Risk and Resiliency programs and operations which delivered pragmatic risk delivery capabilities.

Helen works to encourage collaboration across and within industries, to enable better information security practices. She believes in improving diversity in the Information Security profession, and mentors people interested in pursuing a career in Security, Privacy and Risk Management.

Helen has a Master’s degree in Public Policy, and has earned Certified Information Systems Auditor and Certified In Risk and Systems Control certifications from ISACA. She is a member of the State of Ohio Governor’s Cybersecurity Advisory Board, a founding board member of the National Technology Security Coalition, an advisory board member of CISOExecNet and is a member of the Ohio Cyber Collaboration Committee.
Success is NaN

Abstract:
In the real world, we need to define our own measurements. There are no grades, there's no one holding you accountable for your actions, it's up to you. You are responsible to define and measure your own success. With over 20 years of experience as a software developer and leader, Mel will take you through her non-linear journey towards leadership, pointing out potholes, cliffs, and even some interesting scenic routes along the way. Join in, discover your North Star, and give yourself latitude for getting there.

Biography
Founder and CEO of We Can Code IT, Crain’s Cleveland 2014 Woman of Note, Tech Czar / Cleveland.com Top Ten Tech Evangelist in 2017, and software engineer and architect with over 20 years of professional experience, Mel McGee has worked with clients like Tyco International, DeLorean Motor company, and hundreds of others to develop software. Her programming experience translated to the classroom nearly as soon as she began coding.

An experienced educator, she has taught computer science and engineering subjects to kids, teens, and adults at We Can Code IT, colleges, and overseas. Mel’s knowledge of over 20 programming languages allows her to adapt the curriculum to students in a variety of ways. As a certified Scrum master and a Gestalt trained facilitator, Mel’s interests in collaborative work are woven throughout We Can Code IT’s culture and classroom experience.

Her love for sharing her creative computing techniques has not gone unnoticed. Her innovative early wearable computer was featured in Howard Rheingold’s book Smart Mobs. Her web development expertise was featured in books like Curt Harler’s Beyond the Browser. She has been featured on NPR, publications like Motor World, Crain’s Cleveland Business, Cleveland’s Plain Dealer, and many more. Her artificial intelligence bots, Zoe-bot and Skeletor-bot, have been entertaining the masses online and at community events since the early 2000s. She continues to enjoy innovating with artificial intelligence.

She has a daughter who is learning how to program, and two dogs who follow her everywhere they possibly can.
**POSTERS**

**Automatic Tagging of Stack Overflow Questions Using Global Vectors and Deep Learning, Alexandra Ballow*, Hannah Senediak*, Bonita Sharif†, Alina Lazar*, †Youngstown State University and †University of Nebraska**

**ABSTRACT:**
As more and more question-answer sites emerge online, it becomes impossible to read through all of the different sources to find the right answer. Tags were created to solve this problem. Currently, websites like Stack Overflow require users to submit several tags to give a short overview of a question, however users are unpredictable and can incorrectly assign tags. A better approach would be to automatically predict and generate tags. In this project, we will use newly developed natural language representations together with deep learning algorithms to improve the prediction accuracy of tags. With these methods it should be possible to automatically identify the keywords in short text and source code snippets. This project will test several word representations, deep learning architectures and parameters to determine the optimal procedure of automatically generating tags.

**CATCH-20: Pushing Analytics to the Edge, Ruksana Kabealo (a), Jules Turner (b), Luz Ortega (c) and Anthony Smith (c), (a) The Ohio State University, (b) Arcadia University and (c) Florida Institute of Technology**

**ABSTRACT:**
The seamless integration of mobile computing in our daily lives has led to innovations that were unimaginable just a few years ago. The 8.6 billion network-enabled mobile devices currently active worldwide create a vast untapped array of scientific data collection devices. These ubiquitous mobile devices are equipped with high-quality sensors and processors capable of natively running computationally intensive programs. These capabilities provide an unprecedented self-contained platform to run machine learning algorithms natively on a sophisticated, portable, and inexpensive data collection device. This project targeted developing machine learning techniques and edge analytics capable of exploiting low-fidelity, cyber-physical signatures. The concept involved the use of data from sensors of mobile devices, collected as time series data and analyzed on an Android device. The research team developed a mobile application, CATCH-20, that integrates high-resolution data visualization, event detection, feature extraction, and deep learning classification. To demonstrate the capability of the application, infrasound data were collected from the microphones of mobile devices to classify space rocket launches. The team used an open-source library for visualization, a sliding windows algorithm and the Bhattacharya distance for detection, and a Multi-Layer Perceptron (MLP) architecture for data classification. The use of a standard mobile device and new machine learning based signal processing is an innovative framework designed to characterize several phenomena, including environmental hazards monitoring, traffic control, financial analysis, and medical analysis.

**Chord Recognition in Symbolic Music: A Segmental CRF Model, Segment-Level Features, and Comparative Evaluations on Classical and Popular Music, Kristen Masada, Ohio University**

**ABSTRACT:**
In this poster, I present a new machine learning-based approach to harmonic analysis that is trained to segment music into a sequence of chord spans tagged with chord labels. Formulated as a semi-Markov Conditional Random Field (semi-CRF), this joint segmentation and labeling approach enables the use of segment-level features that capture the extent to which the events in an entire segment of music are compatible with a candidate chord label. The semi-CRF is evaluated on three corpora of classical music and a newly created corpus of rock music. Experimental results show that the semi-CRF model outperforms previous approaches to automatic harmonic analysis.
Landscape of Human Factor Issues in Ensemble Visualization: A Survey, Congrong Ren and Jian Chen, The Ohio State University
ABSTRACT:
Ensembles are frequently generated by domain experts. However, the scale of ensemble can be super large, which makes it impossible to view all the members in ensemble. Ensemble visualization is an effective method to both communicate and explore information in ensembles without viewing the individuals, and thus plays an important role in ensemble data analysis. This work surveys ensemble visualization methods and provides design guidelines of them. Specifically, we start with defining ensemble and ensemble visualization in broader point of view. Then we introduce a new taxonomy to identify the factors affecting performance of an ensemble visualization which includes visual dimensions, mechanisms, ensemble tasks, and applications. Coding related publications based on this taxonomy, we figure out the ensemble visualization methods frequently used or studied in prior years and evaluate their performance, and summarize some guidelines of ensemble visualization design.

Ultrasound Medical Imaging Systems Using Telemedicine and Blockchain for Remote Monitoring of Responses to Neoadjuvant Chemotherapy in Women’s Breast Cancer: Concept and Implementation, Safa Shubbar and Austin Melton, Kent State University
ABSTRACT:
Breast cancer disease continues to be a worldwide concern and the most common cause of death among women. In general, the cause of breast cancer remains unknown. Early detection and diagnosis of the disease remain the only factors which contribute to the successful preservation of lives in both developed and developing countries. By using computer-aided diagnosis (CAD), experts can further manipulate and process the obtained breast images. In this work, image classification is implemented by using the support vector machine (SVM). The goal of this method is to eventually use different processed and scanned breast images which are derived from segmenting and processing each image to detect cancerous tumors. Remote health care is established to monitor women in remote areas who receive neoadjuvant cancerous treatment by using the modern telecommunication infrastructure and blockchain technology.

Using Google Cardboard to Explore Fitts’ Law, Amanda Illig and Rachelle Hippler, Baldwin Wallace University
ABSTRACT:
In a world filled with technology, users want the most efficient devices to complete tasks at hand. The efficiency of devices has been studied since the 1950s and will continue to be an important aspect of human-computer interaction as the use of technology grows. As low-cost virtual reality headsets have become more popular, it is important to understand the speed in which it takes to use these devices, and how they compare to those previously studied. Fitts’ law is one method researchers use to compare and determine the efficiency of input devices. Paul M. Fitts’ concluded in his 1954 study that there is a linear relationship between the index of difficulty (ID) of a target and the movement time. The index of difficulty is a model in which to quantify the difficulty of a task. This study utilizes a simulation tool built by Baldwin Wallace University Computer Science students to measure the accuracy of head movement in a virtual world and how it is influenced by the target’s distance and direction. Traditionally, input devices studied using Fitts’ law are compared to a mouse. Therefore, this study will compare the head movement of a Google Cardboard virtual reality headset to a mouse. It is projected that Fitts’ law will apply to the head movement using a Google Cardboard virtual reality headset in three-dimensional space, focusing on the following three discoveries. There was a linear relationship found for the distance between the start and the target and movement time. Accuracy was also affected by target distance. The size of the target also impacted movement time and accuracy. Finally, it was found that the acceleration of the movement will be fast at first, slow in the middle and somewhat faster as the target is approached.
UAV Related Computational Thinking Curriculum Design, Shiqi Zhang and Christopher Stewart, The Ohio State University

ABSTRACT:
Unmanned aerial systems (UAS) do not carry human pilots. They can reach high, vast and unsafe places, transforming data available to photographers, farmers, first responders, city planners and traffic managers. From 2005 to 2013, UAS adoption tripled, software development doubled and commercial applications increased 5X. Naturally, UAS intrigue K-12 students and, as prices fall, students have access to them. This paper proposes a curriculum uses UAS to teach computational thinking, a critical component of STEM education. The curriculum was hard to design for the following reasons. First, this curriculum requires custom software to (1) fly UAS, (2) autonomously navigate classrooms, and (3) fit applications to K-12 users. Second, curriculum targeting K-12 users face resources and institutional challenges. Finally, K-12 users have diverse computer science backgrounds, making the curriculum easy to understand is critical. We used an open-source platform to develop novel autonomous flight systems that underlie 3 workshops on computational thinking. They are divided into three different phrase: understand drone performance, predict drone performance, create drone performance. We held a workshop called Buck-i-Code about predicting drone performance. We created a 45 minutes computational thinking workshop at a weekend camp called Buck-i-Code, held by Association of Computing Machinery Women Chapter, to evaluate the second part of our workshops, predicting drone performance. During the workshop, we used two cameras to record the reaction of girls, including the number of hand raising and responding time for each question. We divided the whole classroom into four sections, Front Right(A), Back Right(B), Front Left(C), Back Left(D) to collect data. The lecture had four parts, including warming-up exercise, remote control game, self-drone project introduction, and an exercise, called password game, which was autonomous software. This game aimed at walking student through four elements of computational thinking, which were abstract, algorithm, composition, pattern to figure out the password created by using if..else block. The game created based on the selfie drone with advanced feature. A password drone would recognize a specific sequence of people’s faces by implementing autonomous software, powered by artificial intelligence, if the faces showed up in the certain sequence, the drone can land, or keep hovering. For example, we set up the binary password as 1001 manually where 1 stands for there is at least one humans face in the picture, and 0 stands for there is no human face in the picture. Drone will take up to four pictures to check if this four-digit password, digit by digit, is correct or not. After we send out the command to start the drone, the drone take off to four feet and take the first picture. Based on the example we gave out, if the first picture contains at least one humans face, the gimbal will shake twice and prepared to take the second picture, or if there is no face at all, the gimbal will shake four times, hovering, and stopping taking picture to indicating the picture is not expected. Since the password is binary, if the password 1 is not correct, 0 must be correct. This process will walk student through how the computer checks the password. Twenty-four questions were presented, and seven of questions about drones, fourteen questions were computational related. We found the top three most reacted questions were about drones.
Industry Panel I: Keeping up with Technology

Purpose
The technology industry is still emerging, with new innovations advancing the field seemingly every day. This panel will talk about the challenges of keeping up with technology changes, strategies for technology life-long learning, and managing a technology career. Hear from each of panelists on their personal technology journeys as well as how they help their organizations and personnel choose the best technology path for their future.

Panelists
Mindy Berthold | Director Stores Systems | Macy’s, Inc.
Jacqueline Cahill | Cat Digital | Data Engineer 1 Caterpillar
Tracy Oriti Director | Quality Assurance | OE Connection

Industry Panel II: Building a Career in Technology

Purpose
The technology industry is so vast, with many different career options and a wide range of paths to achieve career goals. This panel will talk about choices, comparing and contrasting opportunities with different size organizations, different types of organizations, and the variety of technology career options. It will also explore some of the ways to build a career that will allow for career growth and maintaining desired life-work balance. Hear from each of the panelists about their personal career journeys as well as their advice on building a technology career that is aligned with your career goals.

Panelists
Annie Baymiller Director | Global Information Services | Owens Corning
Cyndee Burke | Vice President, Admin CoE, (Information Technology) | Eaton Corporation
Deborah Kilgore | Founder and CEO | Preferred Consulting Group

Academic Panel I: Graduate

Purpose
Provide insight into types of higher degrees, review tips for preparing for grad school, TA opportunities, how to succeed and more! Educator and student views will be represented in the panel.

Panelists
Amy Copus | Academic Program Coordinator | Kent State
Chris Kiel | CSE Senior Lecturer | Ohio State University

Academic Panel II: Undergraduate Students

Purpose
Discuss opportunities that are available for undergraduate students and benefits of taking advantage of them. These include internships, research, career or graduate school preparation (e.g. activities to enhance your resume), and more!

Panelists
Jong Kwan Lee | Chair of the Department of Computer Science | Bowling Green State University
Cindy Marling | Associate Professor | Ohio University
**Got Doubt? Staying Authentic in Your Computing Major, Rachelle Kristof Hippler and Christopher J. Mruk, Baldwin Wallace University and Bowling Green State University, respectively**

**TIME:** Friday 8:00 - 8:45 PM

**ABSTRACT:**
Did you know that much research has been conducted demonstrating that women often have different experiences in computer science than their male classmates? Some experiences can be positive and therefore enhance self-esteem, where others can be negative and can decrease self-esteem leaving students to feel like they do not belong in their computing major. If this has ever happened to you, join us for a fun workshop that will give you strategies to build your authentic self-esteem in computing so you can combat those times of doubt.

**Growing a university ACM-W chapter, Emily Engle, ACM-W at the Ohio State University**

**TIME:** Friday 8:00 - 8:45 PM

**ABSTRACT:**
ACM-W at Ohio State was established in 2003. Since then, the organization has grown from a handful of members to a steady 75+ active members, a 9-person executive board, weekly meetings, and monthly outreach events throughout the school year. Growth did not come quickly or easily, and even today, we heavily focus on member recruitment and retention to maintain the quality of our organization.

We’ll be breaking down how we keep our organization running, from recruitment to finance to weekly events, and more. If you’re interested in starting an ACM-W chapter at your university or scaling an existing one, our workshop will answer the nitty-gritty of how we keep our organization running. We’ll be discussing approaches to each facet of the organization whether you’re an existing chapter or a brand-new one.

**Wearable Technology for Fun and Fashion, Jaimie Kelley, Caileigh Marshall and Lauren Robbins, Denison University**

**TIME:** Friday 9:00 - 9:45 PM

**ABSTRACT:**
Wearable technology has increased in its frequency of use in the last few years, particularly with regard to sticking LEDs on everything. Walmart this past Halloween had light-up pumpkin earrings. The challenge in today’s workshop is to design fun, flashy, light-up wearables that will augment fashion at OCWiC’s biannual dance party. While attendees learn the dos and don’ts when working with electronics and fabric together, students Caileigh Marshall and Lauren Robbins will relate their experiences in working with wearables for research. Lauren Robbins formulated a wearable body camera as an end-to-end project for her summer research, including designing the garment, putting together the hardware, and writing the software to capture images and perform recognition. Caileigh Marshall’s senior project combines Computer Science with Theatre to create a wireless costume of organza and fiber optic filament that changes color on command.

**Making Meetings Meaningful: A Workshop for the Real World, Andrea Jacobs and Eva Bradshaw, CAS, a division of the American Chemical Society and National Center for Women & Information Technology, respectively**

**TIME:** Friday 9:00 - 9:45 PM

**ABSTRACT:**
We all hold and participate in meetings every day – but how many of us have spent time learning how meetings can be effective and fun?

Making sure all voices are heard leads to more innovation and creativity, and greater shared ownership of meeting outcomes. In this interactive session, participants will have the opportunity to learn and try techniques of facilitation, which are designed to draw out all voices during critical stages of a meeting process. Participants will experience techniques for generating input and ideas, and tools for building consensus within diverse groups.

Empowered with these techniques, you can make your meetings truly meaningful!
**If We Build Makerspaces, Will They Come? Perspectives from a Liberal Arts Environment, Jaimie Kelley and Federico Read Grullon, Denison University**

**TIME:** Friday 8:00 – 8:45 PM  
**ABSTRACT:**  
The goal of Makerspaces in the liberal arts environment is to increase access and knowledge regarding prototyping for undergraduate and faculty research. The challenges we face include shepherding the resources and knowledge we share, as well as more business-like tasks of funding and marketing. In this Birds of a Feather session, we present highlights of Denison University’s experience in cultivating a Maker environment. On Denison University’s campus, we have identified physical spaces where prototyping tools are available, and pioneered the Data STREAM Lab, a Makerspace where students and faculty teach each other how to prototype for research with 3D printers, sewing machines, and electronics. Thus far, more than ten student and faculty research projects have involved the Data STREAM Lab, ranging from an automated shot pouring device in the Physics department to an intricate ray gun prop for a Cinema project. This Birds of a Feather session encourages members of our Liberal Arts community to discuss the Art of Making and differences in implementation across the curriculum.

**Code Review Culture and Effectiveness, Katherine Papcun, Emily Warren, Sarah Whelan, Benjamin Horstman and Katie Jackson, MIM Software Inc.**

**TIME:** Friday 8:00 – 8:45 PM  
**ABSTRACT:**  
In the real world, code isn’t written in a vacuum. We must write code that is usable by our team members and our future selves, so writing good code is a team effort. This session will discuss the practice of code review—why we need it, how we can do it, and what challenges it presents.

**Let’s Talk Internships, Jenna Crosby and Mindy Berthold, Macy’s TECH**

**TIME:** Friday 9:00 – 9:45 PM  
**ABSTRACT:**  
Some schools require them, some don’t – either way the internship experience could be your path to finding professional nirvana. In this presentation we will discuss everything from the initial internship interview to requesting a recommendation when the internship concludes.

What can you do to ensure a successful internship experience? How do you know this is the right company for you? We’ll draw on personal experiences from interns and managers. Conversation will include common internship pitfalls, as well as strategies for avoiding them.

An internship is a fantastic opportunity for personal growth and accomplishment, join us to discuss the possibilities.

**TEALS - Computer Science in Every High School, Katherine Papcun and Jake Taylor, MIM Software Inc. and TEALS, respectively**

**TIME:** Friday 9:00 – 9:45 PM  
**ABSTRACT:**  
Computer science education, especially in the K-12 space, is an important topic in the technology community. Creating a larger, more diverse, and more well-prepared talent pool is a problem that many big-name companies are currently trying to solve. One approach to this problem is the TEALS program, which is sponsored by Microsoft Philanthropies. The program encourages software engineers and other technology professionals to get involved in their communities, and to work with teachers to create sustainable Computer Science programs in their local high schools. This presentation will include information and details about the program, as well as some personal reflections from one of the volunteers.
**MLCert Kernel Perceptron, Robin Kelby, Alexander Bagnall and Gordon Stewart, Ohio University**

**TIME:** Saturday 9:15 - 9:25 AM  
**ABSTRACT:**  
This student short talk will focus on the implementation and verification of the kernel perceptron, a machine-learning algorithm used in two-class classification. In this research, we use our implementation to explore generalization bounds for the kernel perceptron algorithm and the effects of kernelization on these generalization bounds.

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**Network Data Analysis to Predict Future Network Traffic, Astha Syal and Alina Lazar, Youngstown State University**

**TIME:** Saturday 9:30 - 9:40 AM  
**ABSTRACT:**  
Today, internet has become an important tool for the entire public. It is the source of entertainment, education and convenience. To maintain the efficiency and performance of the large computer networks supporting the internet, it is important to monitor and analyze the network traffic. During evening hours, when most people access internet at the same time for social media browsing, accessing their data or watching Netflix, with the increase in utilization, the network traffic become congested and therefore the speed decreases. This paper aims to identify network variables that cause these disturbances, thus impacting the overall speed of the network. Machine learning models can be built using data collected in the network's logs and can be used in real-time to predict the traffic in the next time frame, so network administrators could tune the network variables that are causing these disturbances. In the end, the users will fully benefit of the internet at any day and any point of time without having to slow down their work or have data loss.

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**Impactful Interviewing for Women in IT, Olga Nagdaseva, Giesecke & Devrient (G+D) Mobile Security**

**TIME:** Saturday 10:15 - 10:25 AM  
**ABSTRACT:**  
Your dream job is right around the corner, and so is that stressful job interview. Dream job search is even more complicated if you are a woman navigating the interview process in Information Technology (IT). After conducting and attending hundreds of interviews (as hiring manager, recruiter, and job candidate), presenter Olga Nagdaseva learned the secrets of impactful interviews, making a lasting impression, and landing that dream job in IT. Olga will diverge from the typical “technical interview” secrets, and instead focus on real life interview examples, and the importance of developing in strong interpersonal to complement technical skills.

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**Electronic Form Processing Increasing Productivity & Efficiency Across Campus, Tasha Wells, Youngstown State University**

**TIME:** Saturday 10:30 - 10:40 AM  
**ABSTRACT:**  
The purpose of this study was to evaluate the varying needs of form processing at Youngstown State University and propose a versatile and scalable electronic form processing solution that is easy to use, completely electronic, can automate workflows and can be implemented within the constraints that exist at Youngstown State University. Three solutions currently being utilized by a subset of people were considered. After review, Adobe Sign (specifically Mega Sign) was proposed as a potential campus-wide solution but more work needs done to address more complex workflows and campus-wide acceptance and implementation.
**RESEARCH TALKS**

*Topic and Importance Evaluation of Tor services, Mahdieh Zabihimayvan and Derek Doran, Wright State University*

**TIME:** Saturday 9:15 – 9:35 AM

**ABSTRACT:**
Tor is perhaps the most well-known dark net in the world. It has noble uses, including as a platform for free speech and information dissemination under the guise of true anonymity, but may be culturally better known as a conduit for criminal activity and as a platform to market illicit goods and data. Past studies on the content of Tor support this notion, but were carried out by narrowly targeting popular domains likely to contain illicit content. A survey of past studies may thus not yield a complete evaluation of the content and use of Tor. This work addresses this gap by presenting an evaluation of the content of the English Tor ecosystem. We perform a comprehensive crawl of the Tor dark web and, through topic and network analysis, characterize the ‘types’ of information and services hosted across a broad swath of Tor domains and their hyperlink relational structure. We recover nine domain types demanded by the information or service they host and unveil over 50% of all domains discovered are either directories to other Tor domains, or serve as marketplace to buy and sell goods and services. On the other hand, just 24% of all Tor domains are used to publicly post, privately send, or to discover information anonymously. We also present measurements suggesting that marketplaces of illegal drugs and services do emerge as the dominant type of Tor domain. Our study is the product of crawling over 1 million pages from 20,000 Tor seed addresses, yielding a collection of over 150,000 Tor pages. To the best of our knowledge this is the broadest set of measurements taken over Tor to date.

*Predicting Network Traffic Using TCP Anomalies, Alina Lazar, Youngstown State University*

**TIME:** Friday 8:30 - 8:50 PM

**ABSTRACT:**
Accurately predicting network traffic volume is beneficial for congestion control, improving routing, allocating network resources and network optimization. Traffic congestion happens when a network device is receiving more data packets than its processing capability. The number of retransmissions per flow, packet duplication and synthetic reordering can seriously degrade the overall TCP performance. An unsupervised/supervised technique to accurately identify TCP anomalies occurring during file transfers based on passive measurements of TCP traffic collected using Tstat is proposed. This method will be validated on real large datasets collected from several data transfer nodes. The preliminary results indicate that the percentage of TCP anomalies correlate well with the average throughput in any given time window.
**BIOGRAPHIES**

**Alina Lazar**  
*Youngstown State University*  
**OCWiC 2019 – Past General Chair**

Dr. Alina Lazar is a Professor in the Department of Computer Science and Information Systems. Her research interests lie at the intersection between machine learning and data science. Lately, she has been working on applying machine learning algorithms to scientific datasets and software engineering related datasets. She is also interested in adapting learning algorithms to scale well in order to deal with large real data sets. She wrote multiple research papers on the subject and she served as a reviewer many conferences and journals. She is the recipient of the Research Professorship Award from YSU for five times. She received the YSU Distinguished Research Professor award in 2008 and the YSU Distinguished Service Professor Award in 2017. Dr. Lazar has been teaching database and data mining courses at both undergraduate and graduate levels. She enjoys working with talented undergraduate students on multidisciplinary research projects.

**Amy Copus**  
*Kent State*  
**Academic Panelist**

Amy has earned a Master of Education in Teaching & Learning from The Ohio State University, an Master of Business Administration and a Post Graduate Certificate in Institutional Research and Assessment from Kent State University and is currently working on her Doctorate in Evaluation & Measurement at Kent State. Amy has been working in graduate admissions and graduate student services since 2009 with various colleges and graduate programs at Kent State and currently serves as the Academic Program Coordinator for the School of Digital Sciences in the College of Communication and Information.

**Annie Baymiller**  
*Director, Global Information Services*  
*Owens Corning*  
**Diamond Speaker & Industry Panelist**

Annie Baymiller serves as a Director of Global Information Services for Owens Corning, a world leader in insulation, roofing, and fiberglass composites. In her role, she leads Enterprise Project Management, IS Strategic Planning and serves as the GIS leader for the Roofing and Insulation businesses. Baymiller joined Owens Corning in 2006 as a Project Manager. Living in Europe for almost two years, she led a program of SAP 6.0 deployments in Belgium, Italy, Spain, and France. In addition to project management responsibilities, Baymiller served as the European IT Portfolio Leader with a focus on change management and business relationships. Returning to the United States, Baymiller became the Global Personal Computing leader for Owens Corning and also a lead on the North American SAP program. In 2016, she was appointed to her current role as Director.

Prior to her recent appointment at Owens Corning, she gained consulting experience focusing on strategic planning, process transformation, project leadership, and organizational strategy. Baymiller is PMP-certified and a member of the Project Management Institute (PMI). She is also a member of the Highland Capital Innovation Board. Baymiller earned a Bachelor of Arts from Ohio Wesleyan University with a double-major in Computer Science and Economics-Management.

**Ashley Kline-Tozzi**  
*Product Manager*  
*Cardinal Health*  
**OCWiC 2019 – General Chair**

Ashley is a long-standing OCWiC attendee. She was first involved in 2005 as a student and attended every celebration since! She holds a Bachelor of Science in Computer Science from Bowling Green State University and an MBA from Strayer University. Ashley started off her career as a software engineer. After 7 years she decided to change her focus to product development / application management. In this role she works with business and engineering teams to determine what should be created next to support sales, finance and pricing teams at Cardinal Health!
Bettina Bair
Ohio State University
OCWiC 2019 - Advisor

Bettina is president and founder of OCWiC, the Ohio Community of Women in Computing, a non-profit organization that has provided support, resources, and mentoring for technical women across the state since 2005. In her day job, Bettina is a senior lecturer in the Computer Science and Engineering department at Ohio State University. She has been teaching java, databases, systems, and software engineering classes for more than 20 years. She also likes robots, RPGs, art and travel. You can connect with Bettina through facebook (/bettina.bair) or email (bettina.bair@gmail.com).

Bonita Sharif, Ph.D.
University of Nebraska
OCWiC 2019 – Academic Program Chair

Dr. Sharif is an Assistant Professor in the Department of Computer Science and Engineering at University of Nebraska - Lincoln, Lincoln, Nebraska USA. She received her Ph.D. in 2010 and MS in 2003 in Computer Science from Kent State University, U.S.A and B.S. in Computer Science from Cyprus College, Nicosia Cyprus. Her research interests are in eye tracking related to software engineering, program comprehension, and empirical software engineering. Sharif has been part of OCWiC since 2011 both as an attendee and an organizer in various roles. Sharif is a recipient of the NSF CAREER award and the NSF CRI award related to empowering software engineering with eye tracking. She directs the Software Engineering Research and Empirical Studies Lab in the Computer Science and Engineering department at UNL.

Chris Kiel
CSE Senior Lecturer, DL 248
Ohio State University
Academic Panelist

Chris is currently a Senior Lecturer in Computer Science and Engineering at Ohio State. She has taught for many years at many different schools, both large and small. She did all of this with just a Master's degree! Academia offers great career options for women.

Christopher Stewart
Ohio State University
OCWiC 2019 - Academic Sponsorship Chair

Christopher Stewart - Dr. Stewart is an Associate Professor of Computer Science and Engineering at The Ohio State University. He leads the ReRout Lab which produces computer systems REsearch that Reaches OUT. Outcomes from his research include: autonomous drones for agriculture, smart classrooms for STEM education (+1300 users), zero-carbon computing systems and performance models for cloud computing (tech transfer & patents). He also advises the ACM-W at OSU, a very active student organization that has been recognized locally and nationally.

Cindy Marling
Ohio University
Academic Panelist
OCWiC 2019 - Poster Chair

Cindy is an associate professor in the School of Electrical Engineering and Computer Science at Ohio University, where she is also an adjunct associate professor in the Department of Specialty Medicine, a senior investigator in the Diabetes Institute, and Director of the SmartHealth Lab. She's a senior member of the Association for the Advancement of Artificial Intelligence (AAAI) and of the Association for Computing Machinery (ACM). Her research interests include Artificial Intelligence, Smart and Connected Health, Intelligent Decision Support, and Case-Based Reasoning.
Cyndee Burke is Vice President, Admin CoE, (Information Technology) at Eaton. She has responsibility for the Administrative applications under the purview of the Corporate Officers globally, (Accounting, Audit, Communications and Public Affairs, Corporate Secretary, Financial Reporting, Human Resources, Legal, Payroll Time and Labor, Tax and Treasury). Her organization's projects range from smaller initiatives to large $139 million multi-year Oracle ERP Programs. She has expertise in Building Organization Capability, Outsourcing, Project Management and Project Delivery.

Prior to joining Eaton, Cyndee was a Senior Vice President and Director of the System Services Group at KeyBank consisting of 135 Technology Professionals with a budget of 26 million dollars. A portion of the client base for the System Services Group include HR, Finance, Procurement, Tax, Corporate Real Estate, Product Management, Hogan (Checking and Deposit System), and Check and Item Processing. She was responsible for Project Delivery, Production Support and was credited for managing the first On-shore Outsourcing engagement which led to Key’s first India Outsourcing/Offshoring Development and Support Program. Prior to KeyBank, Cyndee spent more than thirteen years at Progressive.

She received a Bachelor of Fine Arts in Theatre from Ohio University in 1978, an Associate Degree in Applied Science from Youngstown State University in 1981, and a Master of Business Administration from Case Western Reserve University in 1988. She currently resides on the Board of Directors for Hospice of the Western Reserve and Cleveland Playhouse. She has served on the Board of Directors of the Cleveland Rape Crisis Center, the Financial Services Technology Consortium and former Vice President for Friends of the Pops–Cleveland Pops Orchestra. She is married (Brian) with three adult children (Sean, Erin and Moira). She lives with her husband in Beachwood, OH.

Debbie Kilgore is the Founder & CEO of the Preferred Consulting Group, LLC, a Cleveland-based advisory firm specializing in helping executives and business leaders find their way forward during the new digital age. PCG’s services and expertise include: IT strategy and governance, business operations improvement, digital transformation, mergers & acquisition integration, and interim IT executive leadership staffing.

Before devoting herself fulltime to PCG, Debbie gained her experience and expertise serving in leadership roles for Fortune 25 companies in the Healthcare and Global Services industries: Airtouch Cellular, Verizon Wireless, Cardinal Health, and the Cleveland Clinic. Some of her career achievements that demonstrate leveraging technology & innovation to solve business problems include: the first wireless industries retail point of sale system, customer relationship management into Help Desks, IT service management in healthcare, digital transformation, mobility, and global contact center virtualization.

Debbie holds dual degrees in Business Administration and Organization Leadership and is a CHIME CHCIO affiliate that specializes in building successful IT strategies in healthcare.

Denise is an Operational Excellence Manager at MTD Products. She has over 25 years in Information Technology field. Her experiences in IT include training, providing and managing desktop support teams, security, infrastructure, continuous improvement, organizational change management and managing IT Early Talent programs such as coops, interns and leadership development participants.
BIOGRAPHIES

Dianne R. Foreback, Ph.D.
University of Akron dforeback@uakron.edu
OCWiC 2019 - Academic Program Chair

Diane is an Assistant Professor of Computer Science. Her area of research is in secure and dependable systems and networks. This includes solutions to foundational problems of blockchains, churn, consensus, group membership and failure detectors. She earned her Ph.D. in Computer Science from Kent State University in 2015 and her M.S. in Mathematics from Youngstown State University. Her life prior to academia includes over twenty years of industry experience working for fortune 100 companies including Computer Science Corporation, L’Oreal USA, Timken Company and V&M USA Corporation in various technical roles as a software engineer, project manager, database manager and administrator, and senior systems programmer/analyst.

Ellen Walker
Hiram College
OCWiC 2019 - Sponsor Liaison

Dr. Walker is Professor and Chair of Computer Science at Hiram College, a small liberal arts college in Ohio. She recently completed her term as Associate Dean of Academic Affairs. She earned her Sc.B. from Brown University, and M.S. and Ph.D. from Carnegie Mellon. Her research interests include artificial intelligence and computer science education. She is deeply interested in undergraduate teaching and mentoring as well as issues affecting women in computer science. Dr. Walker was a founding organizer of OCWiC, serving as the first Program Chair in 2005. She has served a variety of roles on OCWiC organizing committees since, including General Chair in 2009. Dr. Walker is a member of AAAI, and a Senior Member of ACM and IEEE.

Eva Bradshaw
NCWIT
OCWiC 2019 - Communications Chair

As a Regional Affiliate Manager for the NCWIT Aspirations in Computing Award, Eva supports volunteer affiliate teams’ efforts to recognize young women and their educators. Prior to NCWIT, Eva served as the director of online learning at Zane State College. She has been an IT professional in higher education for over 25 years, empowering young women in local community after-school programs and mentoring female professionals entering the IT workforce. Eva enjoys sharing her IT career journey with other women to encourage them to contribute their unique talents. She lives in Columbus, Ohio and has a strong love for the Ohio State Buckeyes, her husband (John) and two grown daughters.

Fadoua Khmaissia
Student @ University of Louisville
OCWiC 2019 – Communications CoChair

Fadoua Khmaissia is a second year Computer Science PhD student at the University of Louisville, KY. She received her MSc. Degree from the same university after receiving her BEng degree in Telecommunication Engineering, in June 2015, from the University of Carthage, Tunisia. Throughout her studies and internships, Fadoua has acquired scientific and technical knowledge in different streams of Information and Communications Technology.

She is currently a Graduate Research Assistant at the Multimedia Research Laboratory (MRL) at UofL. Her research focuses on Data Science, Knowledge Discovery and Real-World Applications of Machine Learning. She is particularly interested on AI applications that fall at the intersection between art and science.

Fadoua is a Cisco certified network associate, a Grace Hopper 2018 Scholar and a recognized Profile in Leadership for 2018 by the University of Louisville. She received several other awards including ICML 2018 Students Travel Award from the International Machine Learning Society (IMLS), CECS Arthur M. Riehl Award and Grosscurth Fellowship from the J. B. Speed School of Engineering at the University of Louisville.

Fadoua strongly believes in the importance of diversity and inclusion in the workplace. She is trying to translate that into actions throughout her involvement in ACM-W, SWE-Kentuckiana and CRA-W.
BIOGRAPHIES

Jong Kwan “Jake” Lee
Bowling Green State University
Academic Panelist

Dr. Jong Kwan “Jake” Lee is an Associate Professor and the Chair of the Department of Computer Science at Bowling Green State University. He served as a faculty advisor and the undergraduate coordinator advising students and overseeing the undergraduate programs in Computer Science, Software Engineering with Digital Forensics and Computational Data Science specializations. His research interests cover a wide range of areas, including visualization, pattern recognition/computer vision, high performance computing, computer graphics, and multimedia.

Jacqueline Cahill, Cat Digital | Data Engineer 1
Catapillar, Inc.
Industry Panelist

Jacqueline Cahill currently works as a Data Engineer for Caterpillar Inc. in the Data & Analytics group within Cat Digital. Working with C3 technology, Cahill is helping to develop a data lake and provide support for Caterpillar’s maturity in the area of analytics and data solutions. Cahill earned a Bachelor of Information Systems degree in May 2018 from Illinois State University, and was employed by Caterpillar upon graduation. Previously, she established The Dog Den in downtown Champaign, IL, and worked over 10 years helping teens and staff by managing operations at Lincoln’s Challenge Academy. Cahill enjoys reading, spending time with family, swimming, kayaking and lifelong learning.

Jenna Crosby
Macy’s
OCWiC 2019 – Logistics Chair

Jenna has been with Macy’sTECH for five years, she began her career as an intern. Jenna graduated from Bowling Green State University with a major in Visual Communication Technology specializing in web design in development. She also holds minors in Computer Science and Technical Writing. In her current role Jenna is able to share her passion for creative and technical problem solving. She has been volunteering with OCWIC since 2011.

Jessica Householder
Eaton
Diamond Speaker

Jessica is a Cyber Security Analyst who began working for Eaton in 2017 as part of Eaton’s Information Technology Leadership Development Program. She focused on Threat Intelligence for the first year of her rotation and Incident Response for the second. Jessica graduated from Ferris State University with a degree in Information Security and Intelligence. Her main area of concentration was Digital Forensics. She also earned her Certified Ethical Hacker certification while attending university. Jessica grew up in Michigan but has enjoyed traveling and living in different states. She now lives near Cleveland, Ohio with her husband and son. In her free time, Jessica enjoys traveling with her family, playing games, attending K-pop concerts, and binging Netflix series.

Kathleen Timmerman
Xavier University
OCWiC 2019 - Registration Chair

Kathleen is an Assistant Professor at Xavier University in Cincinnati, OH. Kathleen completes research on how we assess education and how different pedagogies impact student learning. Her research specifically explores the impact of pedagogies on underrepresented groups within Computer Science. In addition to her research Kathleen Timmerman has founded Women in Computing Clubs at two different universities.
Lisa Pierson
Aon
OCWiC 2019 – Resume Review Chair

Lisa is an experienced IT professional who has served multiple roles within the development team. She started her career in consulting, cultivating her technical skills within web development. At Cardinal Health, she became the Lead Developer for a company-custom web solution utilizing the .NET framework. As the solution extended into additional areas of the core business and the team grew, she transitioned to a management role within the organization. Being a core part of the team that brought transformational solutions to the organization inspired her to go back to school to obtain her Executive Masters of Organizational Development (EMOD). Next, she accepted a competitive role within Intel to grow her technical skills. During her tenure at Intel, she led the development of a new workflow management and reporting web solution utilizing MVC. Additionally, she contributed as a Senior Developer to an existing Windows Form hardware automation solution. She transitioned her development and process management skills in a DevOps Specialist role with Aon. In this role, she not only maintained and enhanced the Continuous Integration and Deployment (CI/CD) pipeline; she has also created a full CI/CD pipeline as well as the Azure Resource Management (ARM) templates and Desired State Configuration (DSC) modules to support the program’s migration to the cloud. Now, Lisa is a DevOps Architect for Aon, managing a team that supports 200+ projects with over 26,000 deployments a year.

Mary Jean Blink
TutorGen & Mount St. Joseph University
OCWiC 2019 – Industry Program Chair

Mary Jean is Chief Operating Officer of TutorGen, a Carnegie Mellon University education technology startup founded by Dr. John Stamper. Mary Jean has built her career in technology and education. She has extensive experience designing, developing, and managing software development for custom applications and commercially marketed products. She was also a computer audit manager for one of the Big 4 accounting firms while living in the Silicon Valley. She has led development and technology teams in highly regulated industries. And, she maintains her affiliation with Mount St. Joseph University in Cincinnati as an adjunct professor after ten years as faculty at the Mount, the last three serving as Chair of the Computer Information Systems Department. At TutorGen, she has been the Principal Investigator for NSF-funded SBIR grants and has published several peer-reviewed papers on educational data mining and AI in education. Mary Jean earned a B.S. in Computer Science from the University of Dayton and an MBA from the University of Cincinnati.

Mindy Berthold, Director of Stores Systems
Macy’s Technology
Industry Panelist

Mindy Berthold is the Director of Stores Systems for the Macy’s Department Stores. She studied Computer Science and Management at the University of Toledo. As a Director she and her team are responsible for setting technical direction and monitoring the execution of projects, balancing a multi-million dollar development portfolio, and the activities of over 100 colleagues. With more than 30 years’ experience in programming and management, her career has progressed within Macy’s where she started as a Junior Programmer right out of college. A combined passion for retail and technology has always been the driving force behind her career.
Raven Aurand  
Eaton  
Diamond Speaker

Raven is a SAP Functional Analyst at Eaton Corporation and works out of her home office in Grand Rapids, Michigan. Raven started working for Eaton in 2016 as an intern and has not left the company since! After her internship with Eaton, she joined the company’s Information Technology Leadership Development program where she was an SAP Analyst for 1 year and an Application Engineer for 1 year. Raven is from Arcadia, Ohio and went to college at Bowling Green State University where she received her Bachelors of Business Administration with a dual specialization in Business Analytics & Intelligence and Management in December of 2016. She spends her free time creating BGSU alumni events as the Alumni Regional Network Leader of Grand Rapids, volunteering with the Western Michigan Mental Health Foundation, running and playing in social sports leagues with her friends.

Sami Glass  
Rakuten OverDrive  
Website Manager

Sami is a Developer at Rakuten OverDrive on the Content Management Team. There she develops software that gets content and data from publishers and ingests it into their systems. Sami’s team also provides support and tooling for one of Rakuten OverDrive’s Internal Teams.

Sami is a recent graduate from Kent State University, earning a bachelor’s in Computer Science. There she lead student groups, focused on getting students engaged and excited about computer science and technology. Sami is passionate about supporting women in technology fields, supporting groups like OCWiC that help empower, connect and inspire Ohio women in technology.

Stu Zweben  
Ohio State University  
OCWiC 2019 – Academic Sponsorship CoChair

Stu Zweben is Professor Emeritus of Computer Science and Engineering at The Ohio State University. As department chair, he provided funding to support the inaugural OCWiC conference. For the last two conferences, he has fundraised for OCWiC sponsorship from the academic institutions. He co-authors annual survey reports about student and faculty demographics, and student enrollment at bachelor’s programs in computing nationally. He also serves on the Board of Directors of ABET, the organization that accredits computing, engineering, engineering technology and applied science programs.

Tracy Oriti, Director, Quality Assurance  
OE Connection  
Industry Panelist

Tracy Oriti joined OEC in May 2017 and serves as Director, Quality Assurance. She is responsible for the global QA Manual Testing, QA Automation and Performance Engineering teams. With over 20 years of experience as an accomplished IT leader, Tracy has a proven track record of delivering business value through technology projects and resources.

Prior to joining OEC, Tracy spent six years in various leadership roles at Nationwide Insurance where she led her development and QA teams, including a large off-shore vendor, through process and continuous improvement initiatives to save time and money while increasing quality. Tracy also spent 14 years with Key Corporation in multiple leadership and individual contributor roles in Operations, Development, Project Management and Quality Assurance. Tracy received her Bachelor of Science degree from Case Western Reserve University with a concentration in Information System Management.
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