

HFES HEALTH CARE TECHNICAL GROUP NEWSLETTER

>>> IN THIS ISSUE

>>> MESSAGE FROM THE CHAIR

Abigail Wooldridge, PhD



The Health Care Technical Group (HCTG) is gearing up for ASPIRE – the HFES International Annual Meeting with the mission to Advance Systems and Practices through Innovation, Research and Education in September, and that means I have enjoyed nearly the first year of my HCTG chair term.

This would not have been possible without the wonderful HCTG leaders who volunteer their time to serve as officers, as well as all our active HCTG members, especially those who have helped review conference submissions, serve on awards committees and more. So, I first have to say: thank you!

If we have not met yet, my name is Abigail Wooldridge – feel free to call me Abby! I am an Assistant Professor at Faculty Fellow in the Department of Industrial and Enterprise Systems Engineering at the University of Illinois Urbana-Champaign, with appointments in the Carle Illinois College of Medicine and several other departments on campus. I am also an ARCHES (Applied Research in Community Health through Engineering and Simulation) Faculty Fellow OSF HealthCare. I have been an HFES member since 2012 and have served as an officer for HCTG since 2019. My path did not go straight to academia, and I worked in a hospital managing decision support and surgical scheduling between my Master's and Doctorate. Throughout the last 12 years, HCTG has been such a wonderful community for me to grow. I would love to hear what YOU are wanting from HCTG – what would help you grow and develop, no matter your stage of career, career path, whatever? Please send me an email (arwool@illinois.edu) or grab me at the Annual Meeting, and let me know what you think!

On that note, we will have an exciting HCTG conference program this year, with 17 total sessions with 33 lectures, 28 posters, 5 industry/practitioner case studies, 3 panels, and 1 invited symposium expected case studies. Thank you all for bearing with us through this new submission and review processes! Please make sure to check the meeting schedule and mark your calendars to join us at our business meeting and social activities. Like I said, I hope I get to talk with you there!

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HFESHealthcareTG@gmail.com

➤➤➤ JOIN US AT THE ADVANCE SYSTEMS AND PRACTICES THROUGH INNOVATION, RESEARCH AND EDUCATION (ASPIRE) CONFERENCE!

Important Dates

Monday, July 15, 2024

Deadline for ASPIRE Travel Awards, see page 9 for more details

Friday, July 19, 2024

Deadline for HCTG Travel Awards, see page 9 for more details

Wednesday, July 31, 2024

Final deadline for Proceedings Submissions to ScholarOne Manuscript Portal

Deadline to submit Posters With Fellows and University Lab Posters, see page 9 for more details

Thursday, August 1, 2024

Deadline to submit Collaborative Solutions and Lightning Lessons, see page 9 for more details

Friday, August 16, 2024

Deadline to Reserve Accommodations in the HFES Room Block

Friday, August 30, 2024

Deadline for Regular Registration

Monday, September 9 - Friday, September 13, 2024

ASPIRE Conference 2024 in Phoenix, Arizona










For more information, click [here](#) or scan the QR code








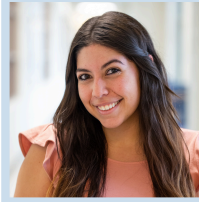


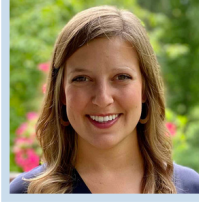
>>> THANK YOU!

Previous HCTG Board Members

We want to extend our gratitude to the 2021-2023 Health Care Technical Group Board Members for their dedication and efforts to lead our organization towards success. Thank you for your exemplary leadership and commitment to impact our Health Care community.

 Chair Nicole Werner	 Program Chair Shijing Liu	 Communications Director Jukrin Moon
 Chair-Elect Abigail Wooldridge	 Program Chair-Elect Megan Gregory	 Student Affairs Chair Megan Salwei
 Secretary & Treasurer David Neyens	 Newsletter Editor Vickie Nguyen	 Awards & Scholarships Chair Changwon Son

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>>> 67TH INTERNATIONAL ANNUAL MEETING HUMAN FACTORS AND ERGONOMICS SOCIETY 2023

We are excited to share a summary of 2023 Health Care Technical Group Program

The successful 67th International Annual Meeting for the Human Factors and Ergonomics Society (HFES) was hosted from October 23-27, 2023 in Washington Hilton at Washington, DC.

Our HCTG track received a total of 65 submissions including: 37 lectures, 5 panels, 21 posters, an alternative format submission and a demo. Each submission was reviewed by 3 reviewers. The HCTG had a total of 49 reviewers that volunteered their time to review each submission. Based on the reviews, the HCTG accepted and hosted a total of 42 submissions including:



24 lectures



13 posters



4 panels



1 demo

The HCTG thanks all of the reviewers, chair, and co-chairs for that volunteered their time! We appreciate all your help and service!

>>> HEALTH CARE TECHNICAL GROUP AWARDEES 2023

We are excited to share a summary of the 2023 Health Care Technical Group awardees



>>> ROBERT L. WEARS EARLY CAREER AWARDEES

Dr. Megan Salwei ~Academic Track Awardee

Dr. Megan Salwei is a Research Assistant Professor in the Center for Research and Innovation in Systems Safety at Vanderbilt University Medical Center. She received her PhD in Industrial and Systems Engineering from the University of Wisconsin-Madison in 2020. Broadly, her work is focused on the design of health IT to support clinician workflow, including the teamwork between clinicians, patients, and their family caregivers. She currently has a K01 award from AHRQ focused on improving personalized treatment decision-making for breast cancer patients.

ROBERT L. WEARS EARLY CAREER AWARDEES <<<

Dr. Kristen Webster ~Practitioner Track Awardee

Dr. Kristen Webster is a Human Factors Engineer at Cincinnati Children’s Hospital. Her passion for healthcare Human Factors was ignited by her experience watching her mother, a nurse of 45 years, struggle in a culture that belittled and threatened her for speaking up and advocating for her patients. This flame was fueled further because of her personal experiences in healthcare, like waking up during surgery, and family member’s experiences, which having a large family, are too numerous to list.



>>> MARILYN SUE BOGNER STUDENT PAPER AWARD



“The Effect of Patient Gender and Undressing Method on Chest Exposure for the Treatment of a Gunshot Wound” by Katelyn Schwieters, Mark V. Mazzeo, Jack Norfleet, William Kessley, Curtis Craig, Marshall Mabry, Nichole Morris, Bradley Drahos



“Evaluating workload indicators for learning during stress exposure training of endotracheal intubation” by Gabriel Gazetta, Kaori Tanaka, Matthew Hackett, Jack Norfleet, Suvranu De, Lora Cavuoto, Rahul Rahul, Brian Clemency, Chloe Miller, Steven D. Schwaitzberg

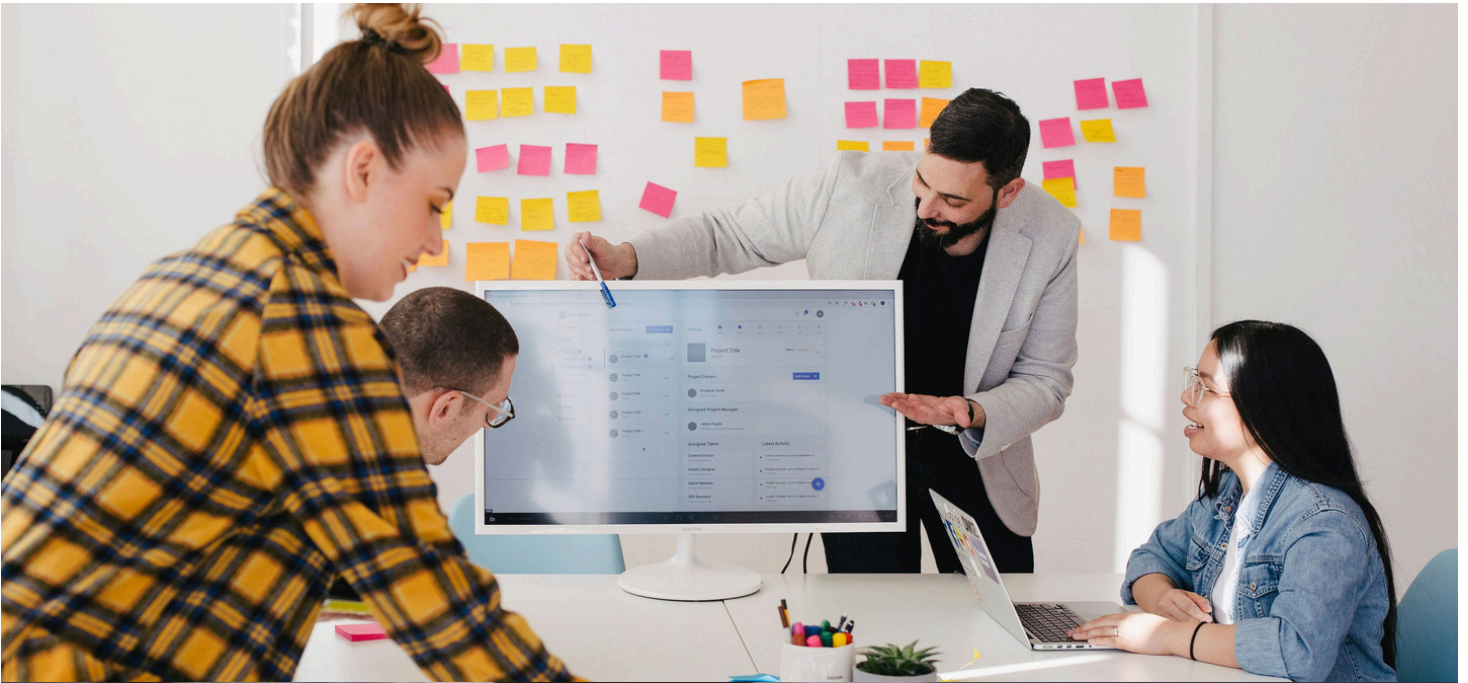


“Assessing Laparoscopic Surgical Skills of Trainees with Scene Independent and Dependent Eye Gaze Metrics” by Shiyu Deng, Sarah Henrickson Parker, Nathan Lau, Tianzi Wang, Jinwoo Oh

HEALTH CARE TECHNICAL GROUP TRAVEL SCHOLARSHIP AWARDS <<<

Congratulations to the members in transition:
Hanna Barton, University of Wisconsin-Madison
Sweta Parmar, Children’s Hospital of Philadelphia

Congratulations to the students:
Nicole Hicks, MASC Student, University of Toronto
Anna Linden, PhD Student, University of Wisconsin-Madison
Priya Loganathar, PhD Student, University of Wisconsin-Madison
Austin Vaughn, PhD Student, Texas Tech University



»»» PRACTICIONER'S CORNER

Sandeep Krishnakumar, PhD
Design researcher at Teague

Navigating Industry: Mentorship for Early Career Professionals

It's no secret that the current job market is extremely challenging. As a fresh graduate from a PhD program looking to transition to an industry career, it can be hard to break into the workforce after spending years in an academic environment. I graduated with my PhD in Human Factors and Ergonomics from The Pennsylvania State University in 2022. I still remember the challenges I experienced that I still hear from folks today – the constant tug of war between seeming too 'overqualified' for roles because I had a PhD, but also too 'underqualified' for roles because I did not have prior industry experience. Since starting my current role, I've had the chance to reflect on both my journey to industry and negotiating the shifts in my work, and I'd like to share three tips on navigating the change from academia to industry. By no means is this meant to be an exhaustive list, but I hope it is instead something like a north star, should you be contemplating your future career.

1

Market the peripheral skills that come with your PhD: Graduates from doctoral programs are much more than just researchers. We have to negotiate project timelines, set milestones, mentor other graduate and undergraduate students, and remain self-driven and self-managed, all at the same time. All of these are skills that are extremely marketable when applying for industry roles and transferable once you begin your position. For instance, like many senior PhD students, I had the opportunity to contribute to a few grant proposals, which has shaped how I approach project planning in my current role.

2

Acknowledge all the work you did in graduate school outside of your dissertation: During my program, I had the pleasure of taking a number of fascinating classes with rigorous projects as part of the curriculum. While you might think course projects don't necessarily 'stack up' to your years-long dissertation work, I found that these projects are just as fascinating, if not more, to interviewers when transitioning to industry. I saw that the problem statements in these projects were more relatable to folks in industry, and also had timelines comparable to industry projects. As you are editing your resumes or work examples, I would encourage you to look back at your courses and include all possible projects that might be relevant to jobs you apply to.

3

Prepare to be nimble in how you approach research: In graduate school, it's easy to have tunnel vision when you're diving deep into one research topic for a number of years. You have plenty of time to review the existing literature, leverage multiple research methods, and spread out your work over a long period of time. In industry though, this might not always be the case. I have seen projects span from as long as 5 years to as short as 3 weeks. Particularly in shorter projects, it's critical to have a diverse toolkit of research methods, and to know how to apply them as needed in the presence of other project constraints. It is perfectly possible to conduct rigorous research within a short period of time, as long as the research meets the objectives you set!

Be Heard in our Newsletter!

Do you or someone you know have a story to tell, news, or insights to share? We want to hear from you! Click [here](#) or scan the QR code to join our newsletter community. Let's shine a spotlight on your ideas!





»»» ACADEMIC'S CORNER

Liza Papautsky, PhD
Assistant Professor

Roadmap to Excellence: Building a Strong Foundation in Human Factors in Healthcare Research

My name is Liza Papautsky and I'm an Assistant Professor in the Department of Biomedical & Health Information Sciences at University of Illinois Chicago. I graduated with my MS (2003) and PhD (2009) from Wright State University. I study patient decision making using qualitative research methods. I spent the first half of my career in the research industry focusing on professional decision making in complex domains. I made the transition to academia after realizing that patients play a critical role in healthcare by having privileged information that may be clinically relevant.

My non-traditional journey to establishing a healthcare human factors research program in academia was motivated by curiosity, open-mindedness, and applying the systems thinking lens to personal healthcare experiences. I have learned a few lessons. It is critical to build a network of mentors (who are your advocates) and to spend the time to maintain and nurture these relationships. Further, as much as in your control, work with people that don't just have the needed technical expertise, but are also people that you respect and enjoy as human beings. To navigate challenges and make decisions, seek a multitude of perspectives and reflect on what may work or may not work for you.

We recently completed a project to characterize breast cancer patient experiences of medication switching. Our research team was comprised of researchers, clinicians, and patients. Such teaming helps ensure that voices of all stakeholders are heard and that research aligns with real-world healthcare needs. On such diverse teams, it is important to work towards flattening hierarchies and understanding what is challenging and worrisome in people's work and experiences. Regardless of career stage, you can play a role in helping bring people together and hear one another. In this effort, not only did we uncover and describe a multitude of patient experiences that often contributed to avoidable distress, we helped make patients feel heard. We developed an information toolkit highlighting content that patients do not always receive at their appointments.

Although traditional metrics of success are critical for advancement in academia, there are multiple ways in which I characterize impact of my research. One of the biggest compliments in my career so far was when a well-respected patient advocate tweeted our article on patient knowledge and highlighted their relief that someone is finally talking about this topic in the scholarly literature.

One piece of advice for researchers looking to establish themselves in healthcare human factors research is that there is no shortage of problem spaces that need research attention. Many problems remain invisible until we identify them. Listen, hear, read, and ask questions. And do not be afraid to reach out to anyone cold!

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»»» **STUDENT'S CORNER**

Maddie Saenz
 Undergraduate Student at the
 Industrial & Enterprise Systems Engineering

Future Human Factors Leaders: The University of Illinois Urbana-Champaign Student Chapter

The University of Illinois Urbana-Champaign (UIUC) student chapter comprises 25 members, including 15 undergraduates and 10 graduate students. The faculty advisors for the chapter are Dr. Abigail Wooldridge and Dr. Wendy Rogers. Its executive board consists of President (Maddie Saenz), Vice-President (Kaush Rajesh), Secretary (Isela Acevedo), Treasurer (Carolina Carvalho Manhães Leite), and Communications Director (Jenna Manzano). The executive council includes students in Industrial and Enterprise Systems Engineering, Psychology, and Brain & Cognitive Science. Last year, the student chapter received the Gold Award status from the national HFES organization and has continued to progress throughout the 2023-2024 academic year. The chapter organized a series of engaging events for students including a breakfast with Dr. Chris Wickens, a Human Factors and Skills Workshop, a tour of the Jump Simulation at the Everitt Lab, several guest speakers from industry and academia, and social events to foster a stronger HFE community for students at UIUC. In April, the campus hosted Dr. Chris Wickens, a renowned human factors specialist and former UIUC professor. He graciously joined the student chapter members for breakfast, offering valuable insights. Students had the opportunity to delve into his research on applied attention theory and human performance modeling. Additionally, the student chapter held a Human Factors and Skills Workshop where students used heuristic analysis to evaluate the Outlook app. This workshop provided students with hands-on experience in conducting usability analysis and collaborating with other students to assess human factors principles within design. One of our most successful events this semester was the Jump Simulation Tour at Everitt Laboratory. The Jump Simulation Center is equipped with advanced simulation technology utilized by the Carle Illinois College of Medicine to train healthcare professionals. Students thoroughly enjoyed this event and had the opportunity to try out equipment such as the virtual reality headset and surgical simulation tools. One goal for this year was to increase resources for students to learn more about human computer interaction and human factors skills in industry. Thanks to the contributions of several guest speakers from the HFES Member Forum, our chapter was able to hold nearly ten events to discuss these topics. Lastly, the student chapter organized various social activities aimed at raising awareness of human factors among students. These included events like an apple-picking social, an ice cream social, and Illinois Night at the Annual HFES Conference. The student chapter has expanded its reach through ongoing outreach efforts via social media platforms, department newsletters, and our chapter website. By leveraging these channels effectively, we've been able to engage a diverse range of students and enhance their involvement with the chapter. The executive council for 2024-2025 will continue to progress the student chapter at UIUC and organizing engaging events to teach students about human factors. As president of this student chapter, I am immensely proud of the executive council's dedication to expanding our chapter and increasing student engagement.

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>>> OPPORTUNITIES

ASPIRE Travel Awards



-Submission Deadline:
July 15, 2024

Students can be considered for one of the awards below.

Travel Award for First-Year Graduate Students: supplies \$500 for graduate students who are in the first year of their academic program (entered no earlier than the fall of 2023). Students must be members of HFES at the time of application. Applicants will be randomly selected.

Student Presenter Award: supplies \$500 to students who are authors of accepted papers or posters. The student must be listed as the presenting author and be members of HFES at the time of application.

Nominations for this award must be submitted by a faculty member in the student's program. The nominator does not have to be an advisor or coauthor of the work.

[Click here](#) to learn more about the Award and requirements.

HCTG Travel Awards



-Submission Deadline:
July 19, 2024

HCTG member groups supported:

- **Student members:** students who are enrolled in the current academic year.
- **Members in transition:** those who graduated in the last academic year.
- **Healthcare human factors practitioners:** those who are currently working as a non-academic role

Applicant Eligibility:

- HCTG member
- Have an accepted paper or an accepted poster at the HFES Annual Meeting (either as a first author or a co-author).

To apply send:

- Personal statement that describes the need for the travel scholarship and describes how the applicant contributes to a diverse and inclusive HCTG (maximum 1 page)
- CV or resume (if applicable, highlight past activities and services to HFES)

To megan.salwei@vumc.org

ASPIRE Job Fair



-Submission Deadline:
August 12, 2024

The HFES Job Fair will provide a forum for employers to find talent and for job seekers to discover potential roles for the next phase in their careers.

[Click here](#) for more information.

Posters with Fellows

-Submission Deadline:
July 31, 2024

The Posters With Fellows session allows HFES members and students to interact with distinguished colleagues in a low-key setting, presenting posters on new results, retrospectives, challenging frontiers or engaging topics relevant to human factors.

[Click here](#) to learn more about the Award and requirements.

University Lab Posters

-Submission Deadline:
July 31, 2024

The University Lab Posters highlight the diverse educational and research programs within the HF/E community by allocating space for university labs to display posters showcasing their contributions to the field.

[Click here](#) to learn more about the Award and requirements.

Collaborative Solutions

-Submission Deadline:
August 1, 2024

Participants will present a poster outlining a problem or question for feedback, with attendees providing suggestions on index cards pinned to the board, addressing both industry and research-oriented issues.

[Click here](#) to learn more about the Award and requirements.

Lightning Lessons

-Submission Deadline:
August 1, 2024

HFES will offer seven-minute Lightning Lesson slots for brief, focused presentations to start new discussions, allowing speakers to share a single key point or useful insight using a limited number of slides.

[Click here](#) to learn more about the Award and requirements.

Share opportunities in our Newsletter!

Do you or someone you know have a job or grant opportunity you want to share with our community? We want to hear from you! Click [here](#) or scan the QR code to share this opportunity with our community.

Let's highlight these opportunities!



»»» KID'S SUBMISSION



Calling all young artists!

Do you have a buddy that likes to paint, draw, or be creative? We are inviting kids and teenagers to unleash their creativity and submit drawings illustrating what Human Factors or Healthcare means to them.

- 1 **Submission:** Anyone aged 0-17 can submit their original artwork. Whether it's a colorful masterpiece or a simple doodle, we want to see your unique interpretation!
- 2 **Selection:** All submissions will be featured in our next newsletter for everyone to admire.
- 3 **Voting:** After the newsletter is published, a poll will be available for readers to vote on their favorite drawings.
- 4 **Prizes:** Winners will be selected based on votes and will receive a surprise prize!

To participate, simply click [here](#) or scan the QR code.



»»» WE WANT TO HEAR YOU!

We value your input and expertise, and we invite you to contribute to our upcoming newsletter! Your feedback, insights, and contributions help us create content for our community. Here's how you can get involved:

- 1 **Feedback on Newsletter:** Have thoughts or suggestions about our newsletter? Share your feedback on the current content or suggest topics you would like to see covered in future editions.
- 2 **Content Submissions:** Do you have an article, story, or announcement you would like to share with our audience? We welcome your contributions, project update, event announcement, or success story for publication in our newsletter.
- 3 **Job or Grant Opportunities:** Are you aware of any job openings in your organization? Or know of any grants or funding opportunities that could benefit our community? Share the details with us so we can include them in our newsletter. Let's support each other in finding meaningful opportunities.

Providing your feedback is easy! Simply click [here](#) or scan the QR code.



We appreciate your participation and look forward to featuring your contributions in our upcoming editions!

»»» THE FUN CORNER

Let's get inspired!



"Healthcare is not just about fixing the problem, but about treating the person as a whole."

-Unknown

Let's laugh together!



Why did the nurse always bring a ladder to work?

Because she wanted to take healthcare to the next level!

Want to submit a quote or a joke?



Do you have a joke that never fails to make people laugh or an inspirational quote that brightens someone's day? Share your wit and wisdom with us! Submit your favorite joke or uplifting quote, and we'll feature the best ones in our upcoming newsletter. Let's spread laughter and positivity together!

To participate, simply click [here](#) or scan the QR code.

