



**Wisconsin Institute for
Healthcare Systems Engineering**
UNIVERSITY OF WISCONSIN-MADISON

AWORD FROM WIHSE

FALL 2021

News

WIHSE Graduate Award Program

In 2020, WIHSE launched the WIHSE Graduate Award program. WIHSE has a strong history and culture of developing transdisciplinary collaborative relationships between researchers, clinicians, health care professionals, patients and care partners. With this goal in mind, the WIHSE Graduate Award (1) exposes ICTR CAP health sciences faculty and researchers to the wide range of engineering disciplines involved in WIHSE and (2) exposes engineering PhD students and their advisors to research that spans the disciplines of engineering and the health sciences. With funding from ICTR CAP, of which WIHSE participates as a program affiliate, the WIHSE Graduate Award program officially began on July 1, 2020 when WIHSE selected its first graduate candidate, PhD student Hanna Barton, mentored by her advisors Professor Nicole Werner, WIHSE Director and Associate Professor of Industrial and Systems Engineering, and Dr. Ryan Coller, Assistant Professor and Division Chief of the Department of Pediatrics. Hanna chose to focus her research on supporting families in using devices to care for children with medical complexities. Her preliminary work included the study of multi-level workarounds and a focused analysis of barriers and workarounds related to medical device use. During her award year, she worked on the development of home personas to aid in device design. We are incredibly proud of what Hanna was able to accomplish including publishing a paper in the prestigious journal, *Pediatrics* ([Medical Device Workarounds in Providing Care for Children With Medical Complexity in the Home | Pediatrics | American Academy of Pediatrics \(aap.org\)](#)). The WIHSE Graduate Award provided a firm foundation for Hanna that allowed her to develop partnerships that will prove quite valuable as she moves forward in her career.

We are excited what our next WIHSE Graduate Awardee, PhD student Valerie Odeh Couvertier, will accomplish along with her mentors Professor Gabriel Zayas-Caban, Jane R. and Jack G. Mandula Assistant Professor of ISyE, and Dr. Brian Patterson, Assistant Professor of Emergency Medicine and Physician Informatics Director for Predictive Analytics at UW Health. Valerie's research focus is to evaluate advanced imaging in the ED and the transition to the outpatient setting with the goal to improve care integration between the ED, inpatient and outpatient settings. Stay tuned for more information!

WIHSE (formerly SEIPS) Short Course

Stay tuned and spread the word about the return of the long anticipated and much requested WIHSE Short Course (formerly named the SEIPS Short Course)! [Short Courses – WIHSE – UW–Madison \(wisc.edu\)](#) [WIHSE \(formerly SEIPS\) Short Course – WIHSE – UW–Madison \(wisc.edu\)](#)

This virtual course presents nationally recognized speakers covering a variety of Human Factors Engineering (HFE) and Patient Safety topics.

Congratulations are in order!

- [Congratulations to WIHSE Director, Professor Nicole Werner for receiving an NIH award to create an information technology tool to support caregivers of people with dementia.](#)
- [Congratulations to WIHSE Executive Committee member, Professor Hongrui Jiang, for his renewed NIH funding to improve EasyVis, an integrated, panoramic, flexible, immersive, 3D laparoscopic visualization system!](#)
- Join us in congratulating our new WIHSE graduate awardee, Valerie Odeh Couvertier! She is working with Professor Gabriel Zayas-Caban, Jane R. and Jack G. Mandula Assistant Professor, and Dr. Brian Patterson, Assistant Professor of Emergency Medicine and Physician Informatics Director for Predictive Analytics at UW Health, to evaluate advanced imaging in the ED and the transition to the outpatient setting with the goal to improve care integration between the ED, inpatient and outpatient settings.
- [Congratulations to WIHSE Faculty Collaborator, Dr. Michael Pulia, for his R01 AHRQ award, “Characterizing the ImPact of COVID-19 on Antibiotic PreScribing in Acute Care and Identifying Resilient Stewardship Strategies \(POISED\)”!](#)
- [Congratulations to our WIHSE Director, Professor Nicole Werner for being elected as the Chair of the HFES Health Care Technical Group!](#)
- [Congratulations to WIHSE Faculty Collaborator, Professor Andrea Gilmore-Bykovskiy, for receiving the 2021 Rising Star Award in Health Services and Aging Research!](#)
- [Congratulations to WIHSE Faculty Collaborator, Professor Andrea Gilmore-Bykovskiy, for being selected as a recipient of the Edna Stilwell Writing Award! What an amazing recognition!](#)

- [Congratulations to PhD student Rachel Rutkowski for receiving the Human Factors and Ergonomics Society's Student Member with Honors Award AND being selected as a Wisconsin Area Health Education Center \(AHEC\) Scholar!](#)
 - [Congratulations to WIHSE alum Dr. Abigail Wooldridge who was awarded the inaugural Robert L. Wears Early Career Award!](#)
 - Congratulations to WIHSE PhD student, Dr. Bat-Zion Hose, for successfully defending her dissertation on "Collaborative Design of Team Health IT: The Case of Pediatric Trauma Care Transitions"
 - Congratulations to WIHSE PhD student, Dr. Nadia Doutcheva for successfully defending her dissertation on "Information Management of Caregivers of Children with Medical Complexity"!
 - Congratulations to WIHSE PhD student Hanna Barton for being elected as Co-Chair of the National HFES LGBTQ+ Affinity Group!
 - Congratulations to WIHSE PhD student Reid Parks winning first place in the HFES Healthcare Technical Group student paper award competition!
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Publication Highlights

- [A scoping review of interventions for older adults transitioning from hospital to home - Liezeit - 2021 - Journal of the American Geriatrics Society - Wiley Online Library](#)
- [Implementation and Evaluation of an Acute Care Multicomponent Intervention for Dementia-Related Behavioral Expressions | Journal of Gerontological Nursing \(healio.com\)](#)
- [Care transition of trauma patients: Processes with articulation work before and after handoff - ScienceDirect](#)
- [Education and skills training for care partners of hospitalised older adults: A scoping review - Madeline Carbery, Samantha Schwartz, Nicole Werner, Beth Fields, 2021 \(sagepub.com\)](#)
- [Medical Device Workarounds in Providing Care for Children With Medical Complexity in the Home | Pediatrics | American Academy of Pediatrics \(aap.org\)](#)

- [Impact of a community-policing initiative promoting substance use disorder treatment over criminal charges on arrest recidivism - ScienceDirect](#)

Keep in touch with WIHSE!

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