



Human Factors and Ergonomics Society

Purdue University Student Chapter

Newsletter

Issue 14-02
June 2014

Our Mission

To promote the discovery and exchange of knowledge concerning the characteristics of human beings that are applicable to the design of systems and devices of all kinds.

Special Thanks to:

Speakers in 2014 Spring

- Dr. Barrett Caldwell
Industrial Engineering, Purdue
- Dr. James McGlothlin
Health Sciences, Purdue
- Dr. Mihaela Vorvoreanu
Computer Graphics Technology, Purdue
- Dr. Tim Cason
Krannert School of Management, Purdue

Honors

2013, Outstanding Student Chapter Gold Award

2012, Outstanding Student Chapter Gold Award

2011, Outstanding Student Chapter Gold Award

2010, Outstanding Student Chapter Gold Award

2009, Second place in the National Ergonomics Month Best Action Plan Contest

2009, Outstanding Student Chapter Silver Award

2008, Outstanding Student Chapter Gold Award

Executive Board 2013-2014

President: Sung-Hee Kim

Vice President: Nicole Murchison

Treasurer: Kerina Su

Secretary: Nicole Murchison

Public Relations Director - Joey So

Outreach Chair: Julian Archer

Communications Director: Jing Chen

Webmaster: Gaurav Nanda

Undergraduate Representative -
Chandhini Gowthaman

HFES Purdue Chapter Celebrates the 20th Anniversary!

Congratulations on our HFES officers 2014

President - Nicole Murchison

Vice President - Harsh W. Aggarwal

Treasurer - Shelly A. Jahn

Secretary - Pulkit Bhardwaj

Communication Director - Liang Wang

Outreach Chair - Mina Ostovari

Webmaster - Courtney Griffin-Oliver

Undergraduate Representative - Kristina Tabar

More special events will be held in Fall 2014 semester.

Check out our officers!!!



President

Nicole Murchison is a PhD student in the Department of Psychological Sciences and Master's student in the School of Industrial Engineering. In 2011, she became a graduate student in Robert Proctor's lab within the Department of Psychological Sciences. Nicole's academic interests are in basic and applied research. She is finding her niche in the compatibility and response-selection studies of basic psychological research. Additionally, she is interested in applied human factors issues dealing with reaction time and accuracy measures for a variety of tasks including utilizing compatibility principles for safe driving. Her goals are to explore how basic psychological principles can be employed to improve product design. Nicole enjoys multidisciplinary projects and collaborative opportunities at Purdue and abroad. She traveled to Germany last summer and worked with a lab at the University of Würzburg in a collaboration related to the control/display ratio.

Harsh Wardhan Aggarwal is a Ph.D. student in the School of Industrial Engineering working in the Landry Lab. His research focuses on understanding and measuring situation awareness in simple, non-risk tasks. He is also working to improve training methods for Parkinson's patients and older patients in the Department of Speech, Language & Hearing Sciences and Department of Health and Kinesiology.

Harsh Wardhan is also working as a graduate assistant in the Technology Assistance Program (TAP) at Purdue where he is doing industrial engineering consulting for companies in Indiana. He also has a BSIE and MSIE degree from Purdue.



Vice President

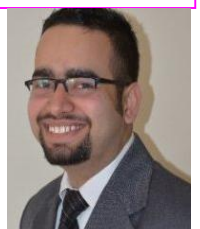


Treasurer

Michelle (Shelly) Jahn is a 1st year MS/Ph.D. student in the School of Industrial Engineering. Shelly received her BS in Industrial Engineering from Clemson University in May 2013, and her research experience involving Electronic Health Records and Human Factors inspired her to further her education and join Dr. Barrett Caldwell in the GROUPEr lab in the fall of 2013. Shelly's current research is focused on the design and development of a healthcare simulation that will aid in team situation awareness training for healthcare providers during medication delivery.

Pulkit Bhardwaj is a Masters Candidate at School of Industrial Engineering. He holds a bachelor degree in Industrial Engineering. Prior to joining the Master's program at Purdue, Pulkit worked for TATA Technologies Product Lifecycle Management team and holds experience in PLM systems. His area of interest includes Human Computer Interaction (HCI) and Data Customization.

He works as a Research Assistant for the DIA2 Project in the area of HCI and User Experience. He is a design enthusiast and a hobby mobile application development professional.



Secretary



Courtney Griffin-Oliver is a Ph.D. student in the Cognitive Psychological Sciences area working under the guidance of Dr. Robert Proctor. She received her B.S. from University of California, Merced (UC Merced) in Cognitive Science. Courtney has become increasingly interested in learning more about Human Factors following her arrival at Purdue University and joining of HFES in 2012. She is particularly interested in eye tracking and the role that eye movements play in human cognitive processes. Currently, her research project is looking at set-level compatibility of eye and manual movements.

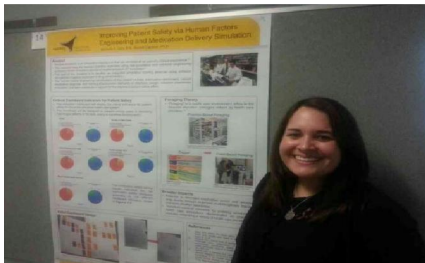
Webmaster

Mina Ostovari is a 2nd Ph.D. student in the School of Industrial Engineering and works in the Grouper lab under guidance of Dr. Barrett Caldwell. She has received her Bachelor and Master degrees in Iran in Industrial Engineering as well. She is interested in different topics in Human Factors including Emergency response and Human Factor studies in Healthcare. She works as an intern in AbbVie in summer 2014, and this is a great opportunity for her to practice her knowledge in Healthcare and develop her dissertation research topic. Mina will be the Outreach Chair for HFES in 2014-2015 school year.



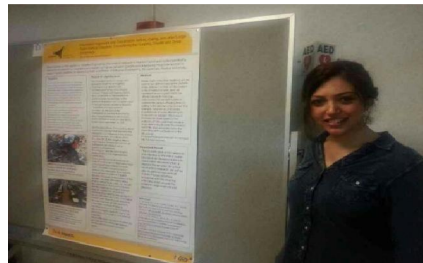
Outreach Chair

Our Members Presented at Industrial Engineering Student Research Symposium 2014!



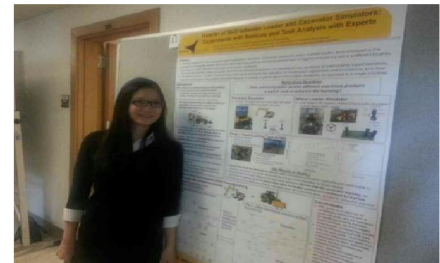
Michelle A. Jahn

Topic: Improving Patient Safety via Human Factors Engineering and Medication Delivery Simulation



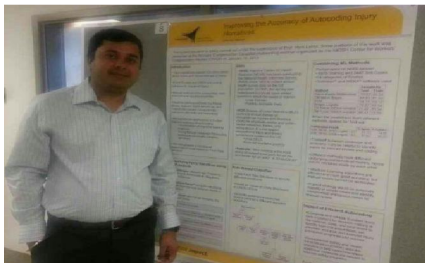
Mina Ostovari

Topic: Information Alignment and Coordination before, during, and after Large Scale Natural Disasters: Considering the Coupling Effects and Deep Uncertainty



Joey So

Topic: Transfer of Skill between Loader and Excavator Simulators: Experiments with Novices and Task Analysis with Experts



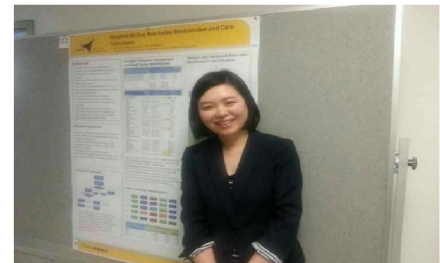
Gaurav Nanda

Topic: Improving the Accuracy of Autocoding Injury Narratives



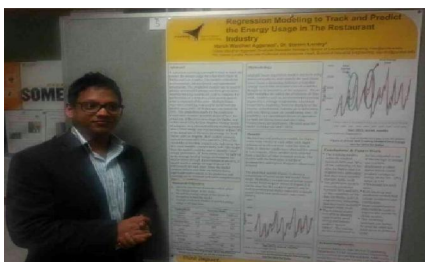
Pulkit Bhardwaj

Topic: Finite Element Modelling of Demographic Specific Human Body Models



Wei Liu

Topic: Hospital 30-Day Non-Index Readmission and Care Transitions



Harsh W. Aggarwal

Topic: Regression Modeling to Track and Predict the Energy Usage in The Restaurant Industry



Congratulations Joey So on receiving the 3rd place at the Poster Presentation Contest!!!

And also:

*Hambisa Keno — Job Shop Scheduling Support System: A Case Study at Kirby Risk Precision Machining

*Jeongjoon Boo, Sung-Hee Kim, Sukwon Lee, Min Lee — Do You Get It? Crowdsourced Workers' Visualization Comprehension of Eight Visualizations