

HARSH WARDHAN AGGARWAL

765-714-4746 | hw.aggarwal@gmail.com | www.hwaggarwal.com

INDUSTRIAL ENGINEER

Ph.D.: Industrial Engineering- Judgment Analysis & Decision Making: - Purdue University – IN, USA Jan, 2014- May, 2018
M.S: Industrial Engineering (MSIE): - Purdue University – IN, USA | **GPA: 3.93/4.0** Dec, 2012
Summer Business Scholar Program- University of Chicago, Booth School of Business Aug, 2012
B.S: Industrial Engineering (BSIE) - Purdue University – West Lafayette, IN, USA | **Major GPA (IE): 3.81/4.0** Dec, 2010

WORK EXPERIENCE

Graduate Research Assistant - Purdue University, IN, USA May, 2016- Present

- Developing judgment analysis methods to measure, track and predict human judgment.
- Conducting human experiments in the domain of energy conservation, education and aviation.

Graduate Research Assistant, Engineering Education - Purdue University, IN, USA Dec, 2016- Present

- Developed an automated R program to combine around 1800 unique surveys for more than 50k students.
- Conducted data analysis using SPSS, Minitab and R to understand learner behavior in Massively Open Online Courses.

Engineering Economics, Work Analysis and Design, Statistics Instructor - Purdue University, IN, USA Jan, 2015- Present

- Developed and instructed the concepts of core ergonomics including usability analysis, product design and physical ergonomics to Industrial Engineering undergraduates.
- Mentored and taught more than 600 students as a teaching assistant and an instructor.
- Taught design software like CATIA, SIMIO and system analysis to 130 students.

Technical Assistance Program (TAP), Graduate Technical Assistant - Purdue University, IN, USA Feb-Dec, 2014

- Engineering consultant for companies in Indiana for process flow improvement.
- Implemented facility planning and storage systems to generate revenue for multiple companies.
- Conducted data analysis, layout management, customer and employee interview.

Illinois Tool Works (ITW), Human Factor Intern – Glenview, IL, USA May-Aug, 2012

- Developed a dashboard user interface for a welding technology for Miller Electric.
- Designed a learning software interface for a copyrighted application for Miller welding.
- Refined the interaction platform for a database application for Instron.

Statistical projects, Graduate Research Assistant – Purdue University, IN, USA Jan-Dec, 2011

- YUM: Developed statistical model for efficient energy modeling and prediction for restaurant chains.
- Modeled false alarm rates for Infuser Pumps at hospitals in IN and IL for Regenstrief Center.
- Conducted on-site interviews to better understand pain points for different agents associated in the healthcare delivery system (doctors, pharmacists, nurses).

Aviation projects, Graduate Research Assistant – Purdue University, IN, USA Jan-Dec, 2011

- NASA: Researched on the feasibility of Dynamic Airspace Configuration (DAC) for NextGen US airspace.
- Conducted the feasibility analysis of stream class management within the TRACON and its extension in Center.

SELECTED AWARDS & HONORS

- **Teaching Awards:** Magoon Award (Highest Department Teaching Award), 2016 and 2017, Teaching Academy Graduate Teaching Award (Second Highest Teaching Honor at Purdue), 2016, Advanced Graduate Teaching Certificate (Highest Teaching Certificate at Purdue)
- **First Prize**, Ecological Sciences and Engineering Poster Symposium, Purdue University, 2015
- **Service Scholarship**, School of Industrial Engineering, Purdue University, 2015
- **First Prize**, Sigma Xi Research Showcase, Environmental Science Division, 2015
- **Second Prize**, Industrial Engineering Graduate Student Poster Symposium, Purdue University, 2015
- **Certificate of Excellence in Research Award**, Office of Interdisciplinary Graduate Program Spring Reception, 2014
- **Second Prize**, 8th Annual Elevator Pitch Competition, Purdue University, 2014

SKILLS

RESEARCH SKILLS: Product Design, Design of Experiments, NIOSH guidelines, Sensitivity Analysis, MS Visio, Balsamiq

SOFTWARE PACKAGES: MATLAB, VATSIM, MS Publisher, Adobe InDesign, SIMIO,

BASIC KNOWLEDGE: AutoMOD, Autodesk Inventor, Google SketchUp, CATIA, Auto-CAD

STATISTICAL PACKAGES : R, Minitab, SPSS

BASIC PROGRAMMING: SQL, MS ACCESS