Min Kyung Lee

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EDUCATION

Purdue University, West Lafayette, IN **August 2011 – May 2023 (Expected)**
Doctor of Philosophy in Industrial Engineering *Cumulative GPA: 4.00*
Master of Science in Industrial Engineering (Thesis)- graduated *Cumulative GPA: 3.81*
Bachelor of Science in Industrial Engineering - graduated *Cumulative GPA: 3.88*

- Relevant coursework: Systems Simulation, Design and Control of Production and Manufacturing Systems, Production Management Control, Multi-objective Optimization, Database Management Systems

Purdue University, West Lafayette, IN **August 2021 – May 2023 (Expected)**
Master of Science in Applied Statistics *Cumulative GPA: 3.52*

- Relevant coursework: Statistical Quality Control, Statistical Computation, Elementary Stochastic Process, Statistical Consulting and Collaboration, Model Based Clustering and Classification, Advanced Statistical Methodology

PROFESSIONAL EXPERIENCE

Purdue University, West Lafayette, IN – Project sponsored by USAID (LASER PULSE) **June 2020 – Present**
Research Assistant

- Developed a process map that depicts the different roles and activities that USAID, private sector and implementing partners undertake to conduct private sector engagement (PSE).
- Examined different phases of the PSE lifecycle and identified bottlenecks and challenges faced in each phase.
- https://pdf.usaid.gov/pdf_docs/PA00Z4CT.pdf

Indiana Rural Health Association (IRHA) Fellowship, French Lick, IN **January 2021 – December 2021**
Research Fellow

- Examined telehealth utilization among healthcare providers in rural Indiana and provided relevant policy or advocacy suggestions to address barriers to accessing care.
- Utilized Tableau and SQL to demonstrate regional-level telehealth usage during COVID over time.
- https://drive.google.com/file/d/1Rtty6zUy-kuQnBEFQ7TX_37NtBhV_CTK/view

Purdue University, West Lafayette, IN **August 2018 – December 2020**
Teaching Assistant

- Supervised 150 undergraduate students, reviewing lectures on a one-on-one basis or in small groups.

Purdue University, West Lafayette, IN – Regenstrief Center of Healthcare Engineering **June 2018 – June 2020**
Research Assistant

- Stochastic optimization under uncertainty and data-driven decision-making models
- Mathematical and computational modeling of disease and disease management
- Issues related to healthcare through system modeling and decision making for complex systems

PROJECT EXPERIENCE

Tracking the Process of Treatment Seeking in Breast Cancer Patients – Supported by the Indiana State Department of Health **May 2021 - Present**

- Developed a process map to explore the care-seeking/treatment experience for breast cancer patients and to identify barriers, delays and variabilities in the process of seeking diagnosis and treatment services.
- Preliminary results: https://docs.google.com/presentation/d/12_sGyhVOgIL-sTDHSKdyO9h0bM7UUJZN/edit#slide=id.p1

Survival analysis of Stroke patients **May 2020-Present**

- Implemented a cox proportional hazards regression model to evaluate the association between different treatment protocols and functional outcomes of acute ischemic stroke.
- Utilized Python and SQL to conduct data cleaning, data manipulation and data analysis for CERNER Health, one of the largest electronic health records in the country.

Simulation of Stroke System of Care – Master's Thesis **January 2017 – May 2018**

- Analyzed patient medical records and national EMS database to build a simulation model for a stroke system of care, incorporating real-time transportation data through Google API.
- Publication: https://journals.sagepub.com/doi/10.1177/0272989X20946694

LANGUAGE AND COMPUTER SKILLS

Language: Native in English, Korean, and Chinese
Computer Skills: R, SQL, Python, Tableau, ARENA Simulation, Latex, SAS, Microsoft Office