Curriculum Vitae

Min Kyung Lee
Country of Origin: South Korea (Republic of Korea)

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EDUCATION

Present M.S. in Applied Statistics, Purdue University, IN.
Present Ph.D. student in Industrial Engineering, Purdue University, IN.
2018 M.S. in Industrial Engineering, Purdue University, IN, 2017-2018.
Thesis title: "Simulation Modeling of a Stroke System of Care: Improving Patient Outcome in Rural Communities Through a Modern System-Based Technology"
Thesis Advisors: Dr. Yuehwern Yih, Dr. Paul Griffin
2016 B.S. in Industrial Engineering, Purdue University, IN, 2011-2016.
Awards: Academic Honors Awards

RESEARCH INTERESTS

Stochastic optimization under uncertainty. Mathematical and computational modeling of disease and disease management. Data-driven decision making models. Issues related to healthcare, specifically through system modling and decision making for complex system/operation design, and evaluation.

RESEARCH EXPERIENCE

Research Assistant, Laser Pulse, Purdue University, Indiana, 2021-Present
Indiana Rural Health Association (IRHA) Fellowship, Indiana, 2021-Present
Graduate Student Research Assistant, Regenstrief Center of Healthcare Engineering, Department of Industrial Engineering, Purdue University, Indiana, 2017-2020.
Undergraduate Research Fellow, Department of Industrial Engineering, Purdue University, Indiana, 2015-2016.

ACADEMIC PRESENTATIONS

2018 INFORMS International Conference, Taiwan, 2018.
Presentation topic: "Simulation Modeling of a Stroke System of Care: Improving Patient Outcome in Rural Communities Through a Modern System-Based Technology"
2019 OIGP Purdue Spring Reception, Purdue University, 2019.
Presentation topic: "Quantifying the Impact of Acute Stroke System of Care Protocols on Patient Outcomes"
2019 INFORMS Healthcare 2019 Cambridge + MA, MIT Sloan School of Management, 2019.
Presentation topic: "Quantifying the Impact of Acute Stroke System of Care Protocols on Patient Outcomes
2020 Regenstrief Center of Healthcare Engineering Graduate Student Seminar, Purdue Regenstrief Center of Healthcare Engineering, 2020.
Presentation topic: "The Stroke Continuum"
2020 Health and Disease: Science, Technology, Culture and Policy, Purdue University, 2020
Presentation topic: "'Uber' for Stroke Patients"
2021 International Conference on Sustainable Development, 2021.
Presentation topic: "Assessing Sustainability of Future Academic-Practitioner Collaborations in International Development."

UNIVERSITY SERVICE

Graduate Mentorship Program, Department of Industrial Engineering, Purdue University. 2017-2018.
Graduate-Undergraduate Research Advisor, Department of Industrial Engineering, Purdue University, 2019-2020.
Graduate Teaching Assistant, IE383: Integrated Production Systems (2018-2020, 150 undergraduate students), Department of Industrial Engineering, Purdue University. 2019-2020.
Graduate Teaching Assistant, IE336: Operations Research – Stochastic Models (2020, 150 undergraduate students), Department of Industrial Engineering, Purdue University. 2020.

PUBLICATIONS

Min K. Lee, Yuehwern Yih, Paul Griffin. Quantifying the Impact of Acute Stroke System of Care Transfer Protocols on Patient Outcomes. (Accepted to SAGE MDM).

PAPERS SUBMITTED

Min K. Lee, Susan Griffin, Paul Griffin. Impact of Health Policy Changes in Neonatal Care. Submitted.
Nathaniel Counts, Paul Griffin, Min K. Lee. Financing Psychsocial Interventions for Pregnant Women Based on the Net Present Value of Care. Submitted.
Priyanka Brunese, Min K. Lee, Ann BessenBacher, Arvin Raman, Yuehwern Yih. Peeking Inside Academic Practitioner Collaboration in International Development: Different Perceptions and Mismatched Expectations. Revising.
Priyanka Brunese, Min K. Lee, Ann BessenBacher, Arvin Raman, Yuehwern Yih. Influencing Factors for Future Researcher-Practitioner Collaborations in International Development – A Quantitative Study. Submitted.

SKILLS

Programming Languages

Proficient in: R, SQL, Python, SAS, Latex, Arena
Experience in: STATA, Matlab

Additional Skills

Machine Learning, Big Data Analysis, Clustering and Classification, Simulation, Stochastic Optmization, Design of Experiments, Biostatistics