

# SEULCHAN LEE

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Michigan Technological University  
College of Business

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## Academic Employment

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**Assistant Professor of Operations Management** Aug. 2022 -

- College of Business, Michigan Technological University, Houghton, MI

**Research Assistant/Instructor** May. 2017 - May. 2022

- Mays Business School, Texas A& M University, College Station, TX

## Education

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**Texas A&M University**, Mays Business School, College Station, TX 2022

- Ph.D. in Information & Operations Management  
Dissertation Title: Essays on Energy Operations  
Co-Chairs: Chelliah Sriskandarajah, Alexandar Angelus

**Texas A&M University**, College Station, TX 2017

- M.S. in Industrial Engineering

**Korea University**, Seoul, South Korea 2015

- B.S. in Industrial & Management Engineering

## Research Interests

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### Topics:

Renewable Energy Operations  
Sustainable Operations  
Capacity Investment  
Infrastructure Planning

### Methodologies:

Game Theory  
Discrete/Robust Optimization  
Stochastic Calculus  
Applied Econometrics

## Manuscripts under Review & Working Papers

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1. **Seulchan Lee**, Alexandar Angelus, Chelliah Sriskandarajah, “Virtual Microgrids: Implications Peer-to-Peer Trading for Renewable Energy Investments.”
  - Major revision at *Production and Operations Management*
2. **Seulchan Lee**, Alexandar Angelus, Chelliah Sriskandarajah, Jon M. Stauffer, “Hybrid Cross Docking Operations in an Energy Supply Chain.”
  - In preparation for submission
3. Huseyn Abdulla, **Seulchan Lee**, Hankyul Oh, “Examining Sustainability as a Service Model in Retail.”
  - In preparation for submission
4. **Seulchan Lee**, Alexandar Angelus, Chelliah Sriskandarajah, “The Impact of Transmission Grid Development on Renewable Energy Generation.”
  - In preparation for submission

## Work in Progress

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5. The Buck Stops Here: On Business Models for Virtual Microgrids (with Alexandar Angelus)

## Courses of Instruction

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**Instructor**, Michigan Technological University

- OSM 3150: Supply Chain Management (Undergraduate);  
\* Fall 2022
- BA 5610: Operations Management (MBA);  
\* Fall 2022, Spring 2023

**Instructor**, Texas A&M University

- SCMT 336: Data Analytics Optimization (Undergraduate);  
\* Spring 2022, Spring 2021
- SCMT 364: Supply Chain Management (Undergraduate);  
\* Fall 2019

**Teaching Assistant**, Texas A&M University

- SCMT 364: Supply Chain Management, Fall 2018

## Fellowships & Scholarships

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Mays Business School PhD Enhancement Fellowship, Texas A&M University	2017 - 2022
Information & Operations Management Department Fellowship, Texas A&M University	2017 - 2022
Department Merit Scholarship, Industrial and Systems Engineering, Texas A&M University	2015 - 2017

## Professional Affiliations

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Institute for Operations Research and Management Sciences (INFORMS)	2018 - Present
Production and Operations Management Society (POMS)	2018 - Present

## Conference Presentations (<sup>†</sup>: *Presented by Co-authors*)

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Virtual Microgrids: Implications Peer-to-Peer Trading for Renewable Energy Investments

- 2022 POMS Annual Conference;
- 2021 INFORMS Annual Meeting;
- 2021 POMS Annual Conference

Value and Structure of Collaboration in a Hybrid Cross-docking Supply Chain

- 2022 POMS Annual Conference;
- 2019 INFORMS Annual Meeting;
- 2019 POMS Annual Conference

The Impact of Transmission Grid Development on Renewable Energy Generation

- 2022 POMS Annual Conference;
- 2021 INFORMS Annual Meeting<sup>†</sup>;
- 2021 Decision Science Institute (DSI) Annual Conference

## Service and Activities

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<b>Ad-hoc reviewer</b> , <i>Production and Operations Management</i>	2022
<b>Session Chair</b> , POMS Annual Conference, Sustainable Operations Track	2022
<b>Reviewer</b> , Decision Science Institute (DSI) Annual Conference	2018

## Professional Services

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**Technical Track Manager**, POMS Annual Conference *2021*  
**Reviewer**, Decision Science Institute (DSI) Annual Conference *2018*

## Professional Experience

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**Research Assistant** (Advisor: Thomas Ferris) *2016*  
Toyota / Texas Transportation Institute (TTI) / Industrial Engineering, Texas A&M University  
Decision making of Drivers under various Cognitive Workload in Driving Simulation

**Inventory Manager** (Military Service) *2013-2014*  
National Veteran's Healthcare Center, Daejeon, South Korea

## Technical Skills

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R, C++, AMPL/CPLEX, Mathematica, Matlab, STATA, SAS, GAMS, SPSS, L<sup>A</sup>T<sub>E</sub>X, VBA in Excel

## Graduate Coursework

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**Doctoral Seminars in Business Administration:** Empirical Research in OM/SCM, Discrete Optimization and Scheduling, Closed-Loop Supply Chain, Operations Strategy, Process Theories

**Economics and Econometrics:** Econometrics I & II, Microeconomics Theory II, Public Economics

**Operations Research & Industrial Engineering:** Linear Programming, Non-linear and Dynamic Programming, Stochastic Processes, Design of Industrial Experiment, Systems Engineering

**Statistics & Machine Learning:** Mathematical Statistics, Distribution Theory, Statistics in Research I & II, Principles of Data Science and Machine Learning Predictive Modeling, Applied Multivariate Analysis and Statistical Learning

## References

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### Chelliah Sriskandarajah (Chair)

Professor, Information and Operations Management  
Mays Business School, Texas A&M University  
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<https://mays.tamu.edu/directory/chelliah/>

### Jon M. Stauffer

Assistant Professor, Info & Operations Management  
Mays Business School, Texas A&M University  
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<https://mays.tamu.edu/directory/jonstauffer/>

### Alexandar Angelus (Co-Chair)

Assistant Professor, Info & Operations Management  
Mays Business School, Texas A&M University  
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[https://mays.tamu.edu/directory/alex\\_angelus/](https://mays.tamu.edu/directory/alex_angelus/)

### Bala Shetty

Professor, Info & Operations Management  
Mays Business School, Texas A&M University  
✉: [bshetty@mays.tamu.edu](mailto:bshetty@mays.tamu.edu) ☎: 979-845-7024  
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