#### TAEWOO LEE

Department of Industrial Engineering University of Pittsburgh 1008 Benedum Hall Pittsburgh, PA 15261

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Citizenship: Canada

### ACADEMIC APPOINTMENTS

University of Pittsburgh

Assistant Professor 2022-present

Department of Industrial Engineering

Rice University

Adjunct Assistant Professor 2021-present

Postdoctoral Fellow 2015-2016

Department of Computational Applied Mathematics and Operations Research

University of Houston

Assistant Professor 2017-2022

Department of Industrial Engineering, Cullen College of Engineering

Department of Decision and Information Sciences, Bauer College of Business (joint appointment)

#### **EDUCATION**

Ph.D., Operations Research, University of Toronto	2015
Master of Engineering, Industrial Engineering, University of Toronto	2010
Bachelor of Engineering, Industrial Engineering, Korea University, Seoul, South Korea	2008

#### RESEARCH

# Journal publications (\*authors ordered alphabetically for OR/MS journals)

- [1] T. Ajayi, T. Lee, A. J. Schaefer. "A note on the implications of approximate submodularity in discrete optimization." *Optimization Letters*, 17 (1), 1–17, 2023
- [2] P. Dorali, Z. Shahmoradi, C. Y. Weng, T. Lee. "Cost-effectiveness analysis of a personalized, teleretinal-inclusive screening policy for diabetic retinopathy utilizing Markov modeling." *Oph-thalmology Retina*, Forthcoming, 2023
- [3] D. Mildebrath, T. Lee, S. Sinha, A. J. Schaefer, A. O. Gaber. "Characterizing rational transplant program response to outcome-based regulation." *Operations Research*, Forthcoming, 2023
- [4] P. Dorali, R. Limongi, F. K. Torsha, C. Y. Weng, T. Lee. "Utilizing simulation to update routine diabetic retinopathy screening policies." *Proceedings of the 2022 Winter Simulation Conference*, Forthcoming, 2022
- [5] Z. Shahmoradi, T. Lee. "Optimality-based clustering." *Operations Research Letters*, 50 (2), 205–212, 2022

- [6] T. Ajayi, T. Lee, A. J. Schaefer. "Objective selection for cancer treatment: An inverse optimization approach." *Operations Research*, 70 (3), 1717–1738, 2022
- [7] Z. Shahmoradi, T. Lee. "Quantile inverse optimization." *Operations Research*, 70(4), 2538–2562, 2022
- [8] \*A. Babier, T. C. Y. Chan, T. Lee, R. Mahmood, D. Terekhov. "An ensemble learning framework for model fitting and evaluation in inverse linear optimization." *INFORMS Journal on Optimization*, 3 (2), 119-126, 2021
- [9] \*T. C. Y. Chan, T. Lee, D. Terekhov. "Inverse optimization: Closed-form solutions, geometry and goodness of fit." *Management Science*, 65 (3), 1115-1135, 2019
- [10] \*T. C. Y. Chan, T. Lee. "Trade-off preservation in inverse multi-objective convex optimization." European Journal of Operational Research, 270 (1), 25-39, 2018
- [11] \*K. Ghobadi, T. Lee, H. Mahmoudzadeh, D. Terekhov. "Robust inverse optimization." *Operations Research Letters*, 46 (3), 339-344, 2018
- [12] O. Tavaslioglu, T. Lee, S. Valeva, A. J. Schaefer. "On the structure of the inverse-feasible region of a linear program." *Operations Research Letters*, 46 (1), 147-152, 2018
- [13] J. J. Boutilier, T. Lee, T. Craig, M. B. Sharpe, T. C. Y. Chan. "Models for predicting objective function weights in prostate cancer IMRT." *Medical Physics*, 42 (4), 1586-1595, 2015
- [14] \*T. C. Y. Chan, T. Craig, T. Lee, M. B. Sharpe. "Generalized inverse multi-objective optimization with application to cancer therapy." *Operations Research*, 62 (3), 680-695, 2014
- [15] T. Lee, M. Hammad, T. C. Y. Chan, T. Craig, M. B. Sharpe. "Predicting objective function weights from patient anatomy in prostate IMRT treatment planning." *Medical Physics*, 40 (12), 121706, 2013

### Conference publications

- [1] P. Dorali, Z. Shahmoradi, C. Y. Weng, T. Lee. "Cost-effectiveness analysis of personalized diabetic retinopathy screening recommendations." *Investigative Ophthalmology & Visual Science*, 63 (7) 3086, 2022 [ARVO Paper Presentation]
- [2] F. K. Torsha, Y. Lin, L. Fan, T. Lee. "Electricity load forecasting under COVID-19." Proceedings of 2021 North American Power Symposium (NAPS), 1–6, 2021
- [3] T. Lee, P. Dorali, Z. Shahmoradi, C. Y. Weng. "Developing behavior-based diabetic retinopathy screening guidelines." *Investigative Ophthalmology & Visual Science*, 62 (8), 2652, 2021
- [4] P. Dorali, R. G. L. Cifelli, C. Y. Weng, T. Lee. "Location-based analysis on optimizing teleretinal imaging accessibility in a large safety-net system." *Investigative Ophthalmology & Visual Science*, 62 (8), 1141, 2021
- [5] P. Dorali, R. Limongi, C. Y. Weng, T. Lee. "Cost-effectiveness analysis for population-based teleretinal diabetic retinopathy screening policies in an urban healthcare system." *Investigative Ophthalmology & Visual Science*, 61 (7), 3072, 2020
- [6] T. Lee, P. Dorali, Z. Shahmoradi, C. Y. Weng. "Personalized teleretinal screening recommendations for patients with diabetes mellitus." *Investigative Ophthalmology & Visual Science*, 61 (7), 829, 2020 [ARVO Paper Presentation]

- [7] J. J. Boutilier, T. C. Y. Chan, T. Craig, T. Lee, M. B. Sharpe. "A logistic regression model to predict objective function weights in prostate cancer IMRT." *Medical Physics*, 41 (6), 395, 2014
- [8] T. Lee, M. Hammad, T. C. Y. Chan, T. Craig, M. B. Sharpe. "Predicting objective function weights for IMRT prostate treatment planning using patient anatomy." *Medical Physics*, 40 (6), 356, 2013
- [9] T. Lee, T. C. Y. Chan, T. Craig, M. B. Sharpe. "Determining critical objectives and importance factors for prostate IMRT treatment planning." *Medical Physics*, 39 (6), 3845, 2012
- [10] T. C. Y. Chan, T. Lee, T. Craig, M. B. Sharpe. "Determining objective function weights in prostate IMRT using inverse optimization." *Medical Physics*, 38 (6), 3687, 2011

### **Book chapters**

- [1] T. Lee, D. Terekhov. "Inverse Optimization." *Encyclopedia of Optimization*, edited by P. M. Pardalos and O. A. Prokopyev
- [2] D. Terekhov, T. Lee. "Inverse Integer Optimization." *Encyclopedia of Optimization*, edited by P. M. Pardalos and O. A. Prokopyev
- [3] T. Lee, D. Terekhov. "Data-Driven Inverse Optimization." Encyclopedia of Optimization, edited by P. M. Pardalos and O. A. Prokopyev

## Work in progress (title tentative; draft available)

- "Geographically-based teleretinal screening for diabetic eye disease" (with P. Dorali, C. Y. Weng, and A. M. Williams)
- "Personalized clinical decision support tool for diabetic retinopathy screening" (with P. Dorali, Z. Shahmoradi, and C. Y. Weng)
- "Optimizing lung transplantation waitlist composition from the transplant programs perspective" (with D. Mildebrath, S. Sinha, and A. J. Schaefer)
- "Learning personalized diabetic retinopathy screening preferences" (with F. Torsha and Z. Shahmoradi)

## Selected conference presentations (by students or myself)

- [1] Z. Shahmoradi, F. Torsha, T. Lee. "Learning Personalized Diabetic Retinopathy Screening Preferences." INFORMS Annual Meeting 2022, October 2022
- [2] P. Dorali, Z. Shahmoradi, C. Y. Weng, T. Lee. "Developing personalized diabetic retinopathy screening recommendations." INFORMS Annual Meeting 2022, October 2022
- [3] T. Lee, Z. Shahmoradi. "Optimality-based clustering." INFORMS Annual Meeting 2022, October 2022
- [4] F. Torsha, T. Lee. "Learning personalized diabetic retinopathy screening preferences." IISE Annual Conference & Expo 2022, May 2022

- [5] P. Dorali, Z. Shahmoradi, C. Y. Weng, T. Lee. "Cost-effectiveness analysis of personalized diabetic retinopathy screening recommendations." ARVO Annual Meeting, May 2022 [Paper Presentation]
- [6] P. Dorali, Z. Shahmoradi, C. Y. Weng, T. Lee. "Developing personalized diabetic retinopathy screening recommendations." INFORMS Annual Meeting 2021, October 2021
- [7] T. Lee, Z. Shahmoradi. "Optimality-based clustering." INFORMS Annual Meeting 2021, October 2021
- [8] F. Torsha, T. Lee. "Learning personalized diabetic retinopathy screening preferences." INFORMS Annual Meeting 2021, October 2021
- [9] P. Dorali, Z. Shahmoradi, C. Y. Weng, T. Lee. "Developing personalized diabetic retinopathy screening recommendations." INFORMS Healthcare 2021, July 2021
- [10] T. Lee and Z. Shahmoradi. "Optimality-based clustering: An inverse optimization approach." The Canadian Operational Research Society (CORS) Annual Meeting, June 2021
- [11] P. Dorali, R. G. L. Cifelli, C. Y. Weng, T. Lee. "Developing personalized diabetic retinopathy recommendations with teleretinal imaging." The American Telemedicine Association (ATA) Annual Conference and Expo 2021, June 2021
- [12] T. Lee, P. Dorali, Z. Shahmoradi, C. Y. Weng. "Developing behavior-based diabetic retinopathy screening guidelines." ARVO Annual Meeting, May 2021
- [13] P. Dorali, R. G. L. Cifelli, C. Y. Weng, T. Lee. "Location-based analysis on optimizing teleretinal imaging accessibility in a large safety-net system." ARVO Annual Meeting, May 2021
- [14] T. Lee. "Optimal resource allocation for diabetic eye disease screening for minority patients." 2021 CMS Quality Conference, March 2021
- [15] T. Lee, P. Dorali, Z. Shahmoradi, C. Y. Weng. "Personalized teleretinal screening recommendations for patients with diabetes mellitus." INFORMS Annual Meeting 2020, November 2020
- [16] T. Lee, Z. Shahmoradi. "Optimality-based clustering: An inverse optimization approach." IN-FORMS Annual Meeting 2020, November 2020
- [17] Z. Shahmoradi, T. Lee. "Quantile inverse optimization: Improving stability in inverse linear programming." INFORMS Annual Meeting 2020, November 2020
- [18] P. Dorali, R. Limongi, C. Y. Weng, T. Lee. "Cost-effectiveness analysis for population-based teleretinal diabetic retinopathy screening policies in an urban healthcare system." ARVO Annual Meeting, May 2020
- [19] T. Lee, P. Dorali, Z. Shahmoradi, C. Y. Weng. "Personalized teleretinal screening recommendations for patients with diabetes mellitus." ARVO Annual Meeting, May 2020 [Paper Presentation]
- [20] Z. Shahmoradi, T. Lee. "Optimality-based clustering." 2019 Conference on Artificial Intelligence, Machine Learning, and Business Analytics, Philadelphia, PA, December 2019
- [21] T. Lee. "Trade-off preservation in inverse multi-objective convex optimization." INFORMS Annual Meeting 2019, Seattle, WA, October 2019
- [22] P. Dorali, T. Lee. "Optimal timing of teleretinal screening for diabetic eye disease." INFORMS Annual Meeting 2019, Seattle, WA, October 2019

- [23] Z. Shahmoradi, T. Lee. "Quantile inverse optimization: Improving stability in inverse linear programming." INFORMS Annual Meeting 2019, Seattle, WA, October 2019
- [24] T. Ajayi, T. Lee, A. J. Schaefer. "Best objective selection in radiation therapy treatment planning." INFORMS Annual Meeting 2019, Seattle, WA, October 2019
- [25] T. Lee, Z. Shahmoradi. "Learning preferences from noisy data using inverse linear programming with application to diet guidelines." INFORMS Healthcare 2019, Boston, MA, July 2019
- [26] T. Lee, Z. Shahmoradi. "Quantile inverse optimization: Improving stability in inverse optimization." INFORMS Healthcare 2019, Boston, MA, July 2019
- [27] P. Dorali, T. Lee. "Optimal timing of teleretinal screening for diabetic eye disease." INFORMS Annual Healthcare 2019, Boston, MA, July 2019
- [28] T. Lee. "Inferring objective functions from noisy and uncertain data in healthcare applications." POMS Annual Conference 2019, Washington D.C., May 2019
- [29] T. Lee. "Automated knowledge-based radiation therapy treatment planning: optimization and learning approach." 4th International Conference on Big Data and Information Analytics, Houston, TX, December 2018
- [30] T. Lee. "Tradeoff preservation in inferring objective function weights in multiobjective optimization." INFORMS Annual Meeting, Phoenix, AZ, November 2018
- [31] T. Lee, Z. Shahmoradi. "Inferring objective functions from inconsistent data in healthcare and energy applications." INFORMS Annual Meeting, Phoenix, AZ, November 2018
- [32] T. Ajayi, T. Lee, A. J. Schaefer. "Data-driven objective selection in multi-objective optimization." INFORMS Annual Meeting, Phoenix, AZ, November 2018
- [33] T. Lee. "Knowledge-based, multicriteira radiation therapy treatment planning." University of Houston, College of Engineering, November 2018
- [34] T. Lee, T. Ajayi, A. J. Schaefer. "Data-driven criteria selection in radiation therapy treatment planning." IISE Annual Meeting, Orlando, FL, May 2018
- [35] T. Ajayi, T. Lee, A. J. Schaefer. "Data-driven objective selection in multi-objective optimization." INFORMS Computing Society Conference, Austin, TX, January 2017
- [36] T. Lee, K. Ghobadi, H. Mahmoudzadeh, D. Terekhov. "Robust inverse optimization with application to dietary recommendation." INFORMS Annual Meeting, Houston, TX, October 2017
- [37] T. Ajayi, T. Lee, A. J. Schaefer. "Data-driven objective selection in multi-objective optimization." INFORMS Annual Meeting, Houston, TX, October 2017
- [38] T. Lee. "Data-driven objective selection in multi-objective optimization." University of Waterloo, Department of Management Science, September 2017
- [39] T. Lee, T. Ajayi, A. J. Schaefer. "Data-driven objective selection in multi-objective optimization: inverse optimization approach." INFORMS Annual Meeting, Nashville, TN, November 2016
- [40] T. Lee, K. Ghobadi, H. Mahmoudzadeh, D. Terekhov. "Robust inverse optimization." CORS Annual Conference, Banff, AB, June 2016
- [41] T. Lee. "Generalized inverse optimization with applications to cancer therapy." University of Houston, Department of Industrial Engineering, April 2016

- [42] T. Lee. "Learning trade-offs in multicriteria optimization for radiation therapy." INFORMS Annual Meeting, Philadelphia, PA, November 2015
- [43] T. Lee, T. C. Y. Chan. "Inverse optimization for multi-objective optimization." INFORMS 2015, Philadelphia, PA, November 2015
- [44] T. Lee. "Generalized inverse optimization with applications to cancer therapy." University of Houston, Department of Industrial Engineering, November 2015
- [45] T. Lee. "Generalized inverse optimization with applications to cancer therapy." Rice University, Department of Computational and Applied Mathematics, November 2015
- [46] T. Lee. "Generalized inverse optimization with applications to cancer therapy." Seoul National University, Department of Industrial Engineering, June 2015
- [47] T. Lee. "Generalized inverse optimization with applications to cancer therapy." POSTECH, Department of Industrial and Management Engineering, June 2015
- [48] T. Lee, T. C. Y. Chan. "Learning trade-offs in multicriteria optimization for radiation therapy." CORS/INFORMS International, Montreal, QC, June 2015
- [49] T. Lee. "Generalized inverse optimization with applications to cancer therapy." Purdue University, School of Industrial Engineering, April 2015
- [50] T. Lee. "Generalized inverse optimization with applications to cancer therapy." University of Illinois Urbana-Champaign, ISE, February 2015
- [51] T. Lee, T. C. Y. Chan. "Preference preservation in radiation therapy treatment planning via inverse convex optimization." INFORMS 2014, San Francisco, CA, Nov 2014
- [52] T. Lee, T. C. Y. Chan. "Preference learning in radiation therapy treatment planning via inverse convex optimization." CORS 2014, Ottawa, ON, May 2014
- [53] T. Lee, M. Hammad, T. C. Y. Chan, T. Craig, M. B. Sharpe. "Predicting objective function weights for multi-criteria IMRT planning using patient anatomy." INFORMS 2013, Minneapolis, MN, Oct 2013
- [54] T. Lee, M. Hammad, T. C. Y. Chan, T. Craig, M. B. Sharpe. "Predicting objective function weights for IMRT prostate treatment planning using patient anatomy." AAPM 2013, Indianapolis, IN, Aug 2013
- [55] T. Lee, M. Hammad, T. C. Y. Chan, T. Craig, M. B. Sharpe. "Predicting objective function weights for multi-criteria IMRT planning using patient anatomy." INFORMS Healthcare 2013, Chicago, IL, June 2013
- [56] T. Lee, T. C. Y. Chan, T. Craig, M. B. Sharpe. "Generalized inverse multi-objective optimization with application to cancer therapy." INFORMS Healthcare 2013, Chicago, IL, June 2013
- [57] T. Lee, T. C. Y. Chan, T. Craig, M. B. Sharpe. "Generalized inverse multi-objective optimization with application to cancer therapy." CORS 2013, Vancouver, BC, May 2013
- [58] T. Lee, T. C. Y. Chan, T. Craig, M. B. Sharpe, "Determining convex objective functions in the multi-objective IMRT treatment planning problem." INFORMS 2012, Phoenix, AZ, Oct 2012
- [59] T. Lee, T. C. Y. Chan, T. Craig, M. B. Sharpe. "Determining critical objectives and importance factors for prostate IMRT treatment planning." AAPM 2012, Charlotte, NC, July 2012

- [60] T. Lee, T. C. Y. Chan, T. Craig, M. B. Sharpe. "Determining critical objective functions for a multi-objective IMRT treatment planning problem." CORS 2012, Niagara Falls, ON, June 2012
- [61] T. Lee, T. C. Y. Chan, T. Craig. M. B. Sharpe. "Approximate inverse optimization for intensity-modulated radiation therapy planning." INFORMS Healthcare 2011, Montreal, QC, June 2011
- [62] T. Lee, T. C. Y. Chan, T. Craig, M. B. Sharpe. "An inverse optimization approach to determine objective function weights in radiation therapy." INFORMS 2010, Austin, TX, Nov 2010

#### AWARDS and HONORS

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Research Excellence Award – Cullen College of Engineering, University of I	Houston 2021
$ \begin{array}{c} \text{INFORMS New Faculty Colloquium} & 2017 \\ \text{IISE New Faculty Colloquium} & 2017 \\ \text{INFORMS Doctoral Colloquium} & 2014 \\ \text{Canadian Operational Research Society (CORS) Paper Competition (Winner)} & 2013 \\ \text{INFORMS Healthcare Applications Society (HAS) Paper Competition (Winner)} & 2013 \\ \text{INFORMS Healthcare Applications Society (HAS) Paper Competition (Winner)} & 2013 \\ \text{The Queen Elizabeth II Graduate Scholarships in Science and Technology} & 2013 \\ \text{Natural Sciences and Engineering Research Council of Canada (NSERC) CREATE} & 2010–2013 \\ \text{Ontario Graduate Scholarship (OGS)} & 2012 \\ \text{MITACS Accelerate} & 2012 \\ \text{The Queen Elizabeth II Graduate Scholarships in Science and Technology} & 2011 \\ \text{Barbara and Frank Milligan Fellowship} & 2010 \\ \hline \textbf{TEACHING} & 2022F (5.00/5.00; N=3) \\ \text{INDE7397: Decision Modeling under Uncertainty (Grad)} & 2022S (4.60/5.00; N=5) \\ 2021S (5.00/5.00; N=4) \\ 2020S (5.00/5.00; N=8) \\ 2019S (5.00/5.00; N=8) \\ 2019S (5.00/5.00; N=3) \\ \text{INDE3382: Stochastic Models (Undergrad)} & 2021F (4.90/5.00; N=15) \\ 2020F (4.70/5.00; N=26) \\ \hline \end{array}$	INFORMS Junior Faculty Best Paper Award – MCDM (Finalist)	2019
IISE New Faculty Colloquium2017INFORMS Doctoral Colloquium2014Canadian Operational Research Society (CORS) Paper Competition (Winner)2013INFORMS Healthcare Applications Society (HAS) Paper Competition (Winner)2013The Queen Elizabeth II Graduate Scholarships in Science and Technology2013Natural Sciences and Engineering Research Council of Canada (NSERC) CREATE2010–2013Ontario Graduate Scholarship (OGS)2012MITACS Accelerate2012The Queen Elizabeth II Graduate Scholarships in Science and Technology2011Barbara and Frank Milligan Fellowship2010TEACHINGIE3093: Stochastic Programming (Grad)2022F $(5.00/5.00; N=3)$ INDE7397: Decision Modeling under Uncertainty (Grad)2022S $(4.60/5.00; N=5)$ 2021S $(5.00/5.00; N=4)$ 2020S $(5.00/5.00; N=4)$ 2020S $(5.00/5.00; N=8)$ 2019S $(5.00/5.00; N=8)$ 1NDE3382: Stochastic Models (Undergrad)2021F $(4.90/5.00; N=15)$ 2020F $(4.70/5.00; N=26)$	Outstanding Teacher Award – Department of Industrial Engineering, University	ersity of Houston 2019
$ \begin{array}{c} \text{INFORMS Doctoral Colloquium} & 2014 \\ \text{Canadian Operational Research Society (CORS) Paper Competition (Winner)} & 2013 \\ \text{INFORMS Healthcare Applications Society (HAS) Paper Competition (Winner)} & 2013 \\ \text{INFORMS Healthcare Applications Society (HAS) Paper Competition (Winner)} & 2013 \\ \text{The Queen Elizabeth II Graduate Scholarships in Science and Technology} & 2013 \\ \text{Natural Sciences and Engineering Research Council of Canada (NSERC) CREATE} & 2010–2013 \\ \text{Ontario Graduate Scholarship (OGS)} & 2012 \\ \text{MITACS Accelerate} & 2012 \\ \text{The Queen Elizabeth II Graduate Scholarships in Science and Technology} & 2011 \\ \text{Barbara and Frank Milligan Fellowship} & 2010 \\ \hline \textbf{TEACHING} & 2022F (5.00/5.00; N=3) \\ \text{INDE7397: Decision Modeling under Uncertainty (Grad)} & 2022S (4.60/5.00; N=5) \\ & 2021S (5.00/5.00; N=4) \\ & 2020S (5.00/5.00; N=8) \\ & 2019S (5.00/5.00; N=8) \\ & 2019S (5.00/5.00; N=3) \\ \text{INDE3382: Stochastic Models (Undergrad)} & 2021F (4.90/5.00; N=15) \\ & 2020F (4.70/5.00; N=26) \\ \hline \end{array}$	INFORMS New Faculty Colloquium	2017
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$\begin{array}{ll} \textbf{TEACHING} \\ \textbf{IE3093: Stochastic Programming (Grad)} & 2022\text{F } (5.00/5.00;  \text{N=3}) \\ \textbf{INDE7397: Decision Modeling under Uncertainty (Grad)} & 2022\text{S } (4.60/5.00;  \text{N=5}) \\ & 2021\text{S } (5.00/5.00;  \text{N=4}) \\ & 2020\text{S } (5.00/5.00;  \text{N=8}) \\ & 2019\text{S } (5.00/5.00;  \text{N=3}) \\ \textbf{INDE3382: Stochastic Models (Undergrad)} & 2021\text{F } (4.90/5.00;  \text{N=15}) \\ & 2020\text{F } (4.70/5.00;  \text{N=26}) \\ \end{array}$	The Queen Elizabeth II Graduate Scholarships in Science and Technology	2011
$\begin{array}{lll} \text{IE3093: Stochastic Programming (Grad)} & 2022\text{F } (5.00/5.00;  \text{N=3}) \\ \text{INDE7397: Decision Modeling under Uncertainty (Grad)} & 2022\text{S } (4.60/5.00;  \text{N=5}) \\ & 2021\text{S } (5.00/5.00;  \text{N=4}) \\ & 2020\text{S } (5.00/5.00;  \text{N=8}) \\ & 2019\text{S } (5.00/5.00;  \text{N=3}) \\ \text{INDE3382: Stochastic Models (Undergrad)} & 2021\text{F } (4.90/5.00;  \text{N=15}) \\ & 2020\text{F } (4.70/5.00;  \text{N=26}) \\ \end{array}$	Barbara and Frank Milligan Fellowship	2010
$\begin{array}{ll} \text{INDE7397: Decision Modeling under Uncertainty (Grad)} & 2022\text{S} \ (4.60/5.00;  \text{N=5}) \\ & 2021\text{S} \ (5.00/5.00;  \text{N=4}) \\ & 2020\text{S} \ (5.00/5.00;  \text{N=8}) \\ & 2019\text{S} \ (5.00/5.00;  \text{N=3}) \\ & 1\text{NDE3382: Stochastic Models (Undergrad)} & 2021\text{F} \ (4.90/5.00;  \text{N=15}) \\ & 2020\text{F} \ (4.70/5.00;  \text{N=26}) \\ \end{array}$	TEACHING	
$\begin{array}{c} 2021S\ (5.00/5.00;\ N=4)\\ 2020S\ (5.00/5.00;\ N=8)\\ 2019S\ (5.00/5.00;\ N=3)\\ \text{INDE3382: Stochastic Models (Undergrad)} \\ \\ 2021F\ (4.90/5.00;\ N=15)\\ 2020F\ (4.70/5.00;\ N=26)\\ \end{array}$	IE3093: Stochastic Programming (Grad)	2022F (5.00/5.00; N=3)
$\begin{array}{c} 2020S\ (5.00/5.00;\ N=8)\\ 2019S\ (5.00/5.00;\ N=3)\\ \text{INDE3382: Stochastic Models (Undergrad)} \\ 2021F\ (4.90/5.00;\ N=15)\\ 2020F\ (4.70/5.00;\ N=26) \end{array}$	INDE7397: Decision Modeling under Uncertainty (Grad)	2022S (4.60/5.00; N=5)
$\begin{array}{c} 2019S\ (5.00/5.00;\ N=3) \\ \text{INDE3382: Stochastic Models (Undergrad)} \\ 2021F\ (4.90/5.00;\ N=15) \\ 2020F\ (4.70/5.00;\ N=26) \end{array}$	,	2021S (5.00/5.00; N=4)
INDE3382: Stochastic Models (Undergrad) 2021F (4.90/5.00; N=15) 2020F (4.70/5.00; N=26)		2020S (5.00/5.00; N=8)
2020F (4.70/5.00; N=26)		2019S (5.00/5.00; N=3)
	INDE3382: Stochastic Models (Undergrad)	2021F (4.90/5.00; N=15)
2019F (4.70/5.00; N=16)		2020F (4.70/5.00; N=26)
		2019F (4.70/5.00; N=16)

2018F (4.80/5.00; N=21) 2017F (4.80/5.00; N=26)

2018S (4.60/5.00; N=53) 2017S (4.72/5.00; N=24)

2019S (no eval taken)

### **SERVICE**

# Journal Referee

Annals of Operations Research Computers & Industrial Engineering European Journal of Operational Research IISE Transactions INFORMS Journal on Computing Management Science

INDE3333: Engineering Economy (Undergrad)

INDE7397: Simulation Modeling of Healthcare Systems (Grad)

Manufacturing and Service Operations Management (MSOM)

Medical Decision Making

Medical Physics

Omega

Operations Research

Operations Research for Health Care

Optimization and Engineering

Optimization Letters

Physics in Medicine and Biology

Plos One

Production and Operations Management (POM)

Scientific Reports

SIAM Journal on Optimization

Socio-Economic Planning Sciences

# Conference Cluster/Session Chair/Committee

Healthcare Applications session, Winter Simulation Conference, 2022

INFORMS Annual Meeting Poster Competition Judge, 2022

INFORMS Doing Good With Good OR Paper Competition Committee, 2020, 2021, 2022

POMS - College of Healthcare Operations Management Best Paper Competition Judge, 2021, 2022

Track Co-Chair of IISE Annual Conference - Operations Research Track, 2022

Co-Chair of 2021 INFORMS Doing Good With Good OR Paper Competition, 2021

INFORMS Health Application Society Best Student Paper Competition Judge, 2021

Area Chair of OR in Health, Medicine and Life Science, IFORS 2021, Remote

National Science Foundation Panel Review

Data-driven inverse optimization, INFORMS 2020, Remote

Innovations in community-based screening, ARVO 2020, Baltimore, MD

Optimization under uncertainty, IFORS 2020, Seoul, South Korea

Inverse optimization in healthcare applications, INFORMS 2019, Seattle, WA

Data and models in healthcare operations, INFORMS Healthcare 2019, Boston, MA

Data-driven modeling in healthcare, INFORMS 2018, Phoenix, AZ

Data-driven decision making in healthcare, INFORMS 2017, Houston, TX

Healthcare logistics with uncertainty, IFORS 2017, Quebec City, QC

Inverse optimization, IFORS 2017, Quebec City, QC

Optimization in radiation therapy, INFORMS Computing Society 2017, Austin, TX

Inverse optimization: Theory, INFORMS 2016, Nashville, TN

Inverse optimization: Applications, INFORMS 2016, Nashville, TN

Optimization methods for cancer therapy, INFORMS International 2015, Montreal, QC

Optimization methods for radiation therapy, INFORMS International 2015, Montreal, QC

Inverse optimization in healthcare, INFORMS 2014, San Francisco, CA

Optimization in radiation therapy treatment planning, CORS 2014, Ottawa, ON

Optimization in radiation therapy treatment planning, INFORMS 2013, Minneapolis, MN

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