

# JISUN LEE

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| <b>ACADEMIC<br/>EXPERIENCE</b> | <b>Assistant Professor</b><br><b>University of Texas, Austin, TX, USA</b><br>Operations Research & Industrial Engineering                     | August 2026 - present     |
|                                | <b>Postdoctoral Fellow</b><br><b>Georgia Institute of Technology, GA, USA</b><br>H. Milton Stewart School of Industrial & Systems Engineering | August 2025 - August 2026 |

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| <b>EDUCATION</b> | <b>Ph.D., University of California, Berkeley, CA, USA</b><br>Industrial Engineering & Operations Research | August 2020 - July 2025   |
|                  | <b>M.S., Seoul National University (SNU), Republic of Korea</b><br>Industrial Engineering                 | August 2017 - August 2019 |
|                  | <b>B.S., Seoul National University (SNU), Republic of Korea</b><br>Industrial Engineering                 | March 2013 - August 2017  |

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| <b>PAPERS</b> | <b>Convexification of multi-period quadratic programs with indicators</b> <a href="#">[link]</a>                                |  |
|               | Jisun Lee, Andrés Gómez, and Alper Atamtürk, Mathematical Programming, 2026.                                                    |  |
|               | <b>Forbidden vertices for graphs of treewidth 3</b>                                                                             |  |
|               | Jisun Lee, Santanu S. Dey, and Oktay Günlük. (Working paper)                                                                    |  |
|               | <b>Multi-period quadratic programs with multiple switches</b>                                                                   |  |
|               | Jisun Lee, Andrés Gómez, and Alper Atamtürk. (Working paper)                                                                    |  |
|               | <b>Finding diverse sets of <math>\epsilon</math>-suboptimal solutions for mixed-integer programs</b> <a href="#">[pdf]</a>      |  |
| <b>TALKS</b>  | Jisun Lee, Ignacio Aravena Solís, Alper Atamtürk, and Jean-Paul Watson. (Working paper)                                         |  |
|               | <b>Strong formulations for hybrid affine system control</b> <a href="#">[link]</a>                                              |  |
|               | Jisun Lee, Hyunki Im, and Alper Atamtürk. (under review)                                                                        |  |
|               | <b>A fully polynomial time approximation scheme for the probability maximizing shortest path problem</b> <a href="#">[link]</a> |  |
|               | Jisun Lee, Seulgi Joung, and Kyungsik Lee, European Journal of Operational Research, 2022.                                      |  |

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| <b>TALKS</b> | <b>2026 INFORMS Optimization Society Conference</b> , Atlanta, USA.                                  |  |
|              | - Toward the forbidden vertices with treewidth 3.                                                    |  |
|              | <b>2025 INFORMS Annual Meeting</b> , Atlanta, USA.                                                   |  |
|              | - Multi-period quadratic programs with indicators.                                                   |  |
|              | <b>2024 INFORMS Annual Meeting</b> , Seattle, USA. <a href="#">[slides]</a>                          |  |
|              | - Convexification of multi-period mixed-integer quadratic optimization.                              |  |
|              | <b>2024 Mixed Integer Programming Workshop</b> , Kentucky, USA. <a href="#">[poster]</a>             |  |
| <b>TALKS</b> | - Strong formulation of hybrid control problem with tridiagonal inverse matrix.                      |  |
|              | <b>2019 European Conference on Operational Research</b> , Dublin, Ireland. <a href="#">[slides]</a>  |  |
|              | - An approximation scheme of the probability maximizing combinatorial optimization problem.          |  |
| <b>TALKS</b> | <b>2019 Conference of Korean Institute of Industrial Engineers</b> , Seoul, Republic of Korea.       |  |
|              | - A fully polynomial time approximation scheme for the probability maximizing shortest path problem. |  |

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| <b>PEER<br/>REVIEWING</b>        | Mathematical Programming, Integer Programming and Combinatorial Optimization,<br>INFORMS Journal on Computing                                                                                                                                                  |                                         |  |
| <b>RESEARCH<br/>EXPERIENCE</b>   | Lawrence Livermore National Lab, CA, USA<br>- Graduate student research intern                                                                                                                                                                                 | June 2024 - August 2024                 |  |
| <b>TEACHING</b><br>(UC Berkeley) | IEOR 262A <b>Mathematical Programming I</b><br>IEOR 165 <b>Engineering Statistics, Quality Control, and Forecasting</b><br>IEOR 142 <b>Introduction to Machine Learning and Data Analytics</b>                                                                 | Fall 2024<br>Spring 2024<br>Spring 2023 |  |
| <b>RESEARCH<br/>INTEREST</b>     | Mixed-integer programming, combinatorial optimization<br>Applications in statistical learning & hybrid system control<br>Combined framework of optimization & machine learning<br>Optimization under uncertainty: stochastic optimization, robust optimization |                                         |  |