

YU XIE

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RESEARCH INTERESTS

Theory and Methodology (Mixed) integer linear programming (MILP); bilevel MILP algorithms; quantum algorithms for combinatorial optimization problems

Software Development MibS: A solver for mixed integer bilevel linear programs

EDUCATION

Lehigh University

Ph.D., Industrial and Systems Engineering

- Advisor: Ted Ralphs, Ph.D.
- Related Coursework: Analysis of Algorithms, Mathematical Optimization, Applied Models in Operations Research, Discrete Optimization, Nonlinear Optimization, Optimization Methods in Machine Learning, Iterative Methods for Large Sparse Linear Systems

Bethlehem, PA

Aug 2019 - Present

Lehigh University

M.Eng., Industrial and Systems Engineering

Bethlehem, PA

Aug 2017 - May 2019

Southern Methodist University

B.S., Management Science; B.S., Applied Mathematics

- GPA: 3.93; Honors: Summa Cum Laude, Omega Rho

Dallas, TX

Jan 2013 - May 2015

Shanghai University of Finance and Economics

Finance; concentration in Insurance

Shanghai, China

Sept 2010 - Jan 2013

WORK EXPERIENCE

IOG Capital

Analyst

- Processed data and prepared materials for current and prospective investment evaluations
- Developed and maintained Excel-based financial models and company hedge book
- Assisted quarterly asset valuation and documentation
- Maintained database to track various accounting, well development, and land reports

Dallas, TX

July 2015 - Aug 2017

VCE

Sales Operations Intern

- Cleaned historical sales data of Americas region
- Provided supports to the sales team by maintaining account and deal information on *Salesforce.com*

Richardson, TX

June 2014 - Aug 2014

TEACHING EXPERIENCE

Instructor

ISE216 Manufacturing Laboratory

- Course Level: Undergraduate
- Department: Industrial and Systems Engineering, Lehigh University

Fall 2021

SKILLS

Software

Microsoft Word, Excel, and PowerPoint, Gurobi, CPLEX, Simio

Programming Languages C/C++, Python, MATLAB, AMPL, SQL, Julia

SERVICE AND ACTIVITIES

- Volunteer: MOPTA Conference (Aug 2021), AT&T Performing Arts Center (2016 - 2017)
- Lehigh University Choral Arts, Flamenco