

ZIXUAN FENG

☎ +1 (352)664-0243 ✉ zixuan.feng@ufl.edu

Education

University of Florida , <i>Herbert Wertheim College of Engineering</i> Ph.D. in <i>Industrial and Systems Engineering</i> under Dr. Aleksandr Kazachkov M.S. in <i>Computer and Information Sciences</i> GPA: 3.86/4.0	<i>Gainesville, FL, USA</i> Aug 2023 - Present Dec 2022
Sorbonne University , former <i>University Pierre and Marie Curie (UPMC)—Paris VI</i> M.S. in <i>Computer Sciences</i> track <i>Data Science, Machine Learning & Knowledge (DAC)</i> B.S. in <i>Computer Sciences</i> GPA: 14.81/20, Ranking: 13/245, Graduated with first class honors	<i>Paris, France</i> Oct 2021 Jun 2019

Research Interests

Discrete optimization, especially for improving *cutting plane* methods in *Mixed-Integer Linear Programming (MILP)* solvers
Computational Economics, focus on theoretical guarantees for *fair allocation of indivisible resources*

Coursework

Math for Intelligent Systems	Advanced Machine Learning	Fundamentals of Mathematical Programming
Machine Learning	Game Theory for Economists	Linear Programming and Network Optimization

Research Projects

Learning to Disable Global Cuts in Branch-and-Cut <i>Poster selected in the 2024 Mixed Integer Programming Workshop</i> <i>Presentation invited for INFORMS 2024 Annual Meeting</i> With K. Konuru, A. M. Kazachkov, A. Vaidya	Aug 2023 – Present
Effect on Social Welfare when Subsidizing Fairness on a Budget	Jan 2023 – Present
Tilting-based Cut Generation and Strengthening in MIP	Jan 2024 – Present

Other Experience

Research Intern, Aggregation Model for Computational Ethics <i>Paris 6 Computer Science Laboratory (LIP6), Paris, France</i> <ul style="list-style-type: none">Defined behavior of different aggregation operators and mathematical properties with respect to computational ethicsApplied hierarchical clustering on 93 combinations of operators to identify similar combinationsProposed a protocol to classify aggregation strategies and identify difficult ethical scenarios	Mar 2021 – Aug 2021
Application of main ML, DL and RL algorithms <ul style="list-style-type: none">Employed different RNN structures on natural language sequence classification, forecasting and generation problemsApplied CNN on Sentiment140 dataset for sentiment detectionRandomly generated human face with GAN and DCGAN trained on CelebA and handwritten numbers with VAE and Convolutional VAE trained on MNIST	Sep 2020 – Dec 2020

Service

Secretary , INFORMS Student Chapter at the University of Florida	May 2024 – Apr 2025
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Teaching

Grader , <i>EIN 6905 Data Analytics for Social Good / ESI 4611 Advanced Data Analytics</i> Co-listed Graduate and Undergraduate Elective, UF ISE	Spring 2023
Co-Instructor , <i>ESI 4611: Advanced Data Analytics</i> , Undergraduate Elective, UF ISE	Scheduled Spring 2025

Skills

Programming: Python, C++, Java, SQL, PL/SQL, C, HTML, CSS, JavaScript, PHP, F#, OCaml, XML, VB
Language: English (Fluent), French (Fluent), Chinese (Native Speaker)