

# ZIXUAN FENG

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## Education

<b>University of Florida</b> , <i>Herbert Wertheim College of Engineering</i> Ph.D. in <i>Industrial and Systems Engineering</i> under <b>Dr. Aleksandr Kazachkov</b> M.S. in <i>Computer and Information Sciences</i> GPA: 3.86/4.0	<i>Gainesville, FL, USA</i> <b>Aug 2023 - Present</b> <b>Dec 2022</b>
<b>Sorbonne University</b> , former <i>University Pierre and Marie Curie (UPMC)—Paris VI</i> M.S. in <i>Computer Sciences</i> track <i>Data Science, Machine Learning &amp; 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> <b>Oct 2021</b> <b>Jun 2019</b>

## 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

<b>Learning to Disable Global Cuts in Branch-and-Cut</b> <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	<b>Aug 2023 – Present</b>
<b>Effect on Social Welfare when Subsidizing Fairness on a Budget</b>	<b>Jan 2023 – Present</b>
<b>Tilting-based Cut Generation and Strengthening in MIP</b>	<b>Jan 2024 – Present</b>

## Other Experience

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

## Service

<b>Secretary</b> , INFORMS Student Chapter at the University of Florida	<b>May 2024 – Apr 2025</b>
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## Teaching

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

## 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)