

Donghao Ying

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Research interests Mathematical programming and its applications, algorithmic game theory, and combinatorial optimization.

Education

University of California, Berkeley	Berkeley, CA, U.S.
PhD in Operations Research	Aug. 2020 – Present
Advisor: Javad Lavaei.	

University of Chinese Academy of Sciences	Beijing, China
BS in Mathematics and Applied Mathematics	Sep. 2016 – Jun. 2020
Thesis Advisor: Xin Liu. <i>GPA: 3.96/4.0; Ranking: 1/75.</i>	

Massachusetts Institute of Technology	Cambridge, MA, U.S.
Exchange Student in Mathematics	Feb. 2019 – May 2019

Honors and scholarships	UC Berkeley IEOR Departmental Fellowship	2020
	First Class Academic Scholarship at UCAS	2018 & 2019

Research experience

Undergraduate Thesis Project
Advisor: Xin Liu (LSEC, CAS) Dec. 2019 – May 2020
Studied sparse-dictionary-learning based image inpainting approaches. Adopted a class of block coordinate descent algorithms to solve a specific optimization model of image inpainting, and established the global convergence of the algorithm based on existing literature.

Undergraduate Research Intern
Advisor: Xiaoming Sun, Jialin Zhang (ICT, CAS) Jun. 2019 – Dec. 2019
Studied the computational complexity of Boolean functions.
Studied the fair allocation of indivisible items in the sense of 'almost' envy-freeness. Proved that an EFX allocations can be found in polynomial-time when all agents have additive, $0/\pm 1$ valuations over the items.

Skills

Programming
Proficient in: MATLAB, Python. Familiar with: R.

Languages
Chinese (native), English (fluent)

Other interests Table tennis, Badminton, Piano.