

Maximilian Fichtl
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RESEARCH INTERESTS	Algorithmic game theory, auction theory, convex optimization, online learning, discrete convex analysis, equilibrium computation	
ACADEMIC BACKGROUND	<i>Postdoctoral Position at ICMD</i> Universidad de Chile, Santiago, Chile	Since September 2023
	<i>Ph.D. Computer Science</i> Technical University of Munich, Munich, Germany	August 2018 - July 2023
	<i>M.Sc. Mathematics</i> Technical University of Munich, Munich, Germany	2014-2017
	<i>B.Sc. Mathematics (elite partial course Topmath)</i> Technical University of Munich, Munich, Germany	2011-2014
JOURNAL ARTICLES	Computing Bayes Nash equilibrium strategies in auction games via simultaneous online dual averaging. M. Bichler, M. Fichtl, and M. Oberlechner. <i>Operations Research, 2023, Forthcoming.</i>	
	Strong substitutes: Structural properties, and a new algorithm for competitive equilibrium prices. E. Baldwin, M. Bichler, M. Fichtl, and P. Klemperer. <i>Mathematical Programming, 2022.</i>	
	On the expressiveness of assignment messages. M. Fichtl. <i>Economics Letters, 2021.</i>	
	Learning equilibria in symmetric auction games using artificial neural networks. M. Bichler, M. Fichtl, S. Heidekrüger, N. Kohring, and P. Sutterer. <i>Nature Machine Intelligence, (3), 2021.</i>	
	Walrasian equilibria from an optimization perspective: A guide to the literature. M. Bichler, M. Fichtl, and G. Schwarz. <i>Naval Research Logistics, 2020.</i>	
CONFERENCE PROCEEDINGS	Core-stability in assignment markets with financially constrained buyers. E. Batziou, M. Bichler, and M. Fichtl. <i>EC '22, 2022.</i>	
WORKSHOP PAPERS	Computing distributional Bayes Nash equilibria in auction games via gradient dynamics. M. Fichtl, M. Oberlechner, and M. Bichler. <i>AAAI-22 Workshop on Reinforcement Learning in Games, 2022.</i>	

TEACHING	<i>Operations Research (IN0024)</i> Teaching assistant	Summer terms 2019-2022
	<i>Auction Theory and Market Design (IN2211)</i> Teaching assistant	Winter terms 2018/2019 and 2019/2020
INTERNSHIPS	<i>Research internship at Meta Core Data Science</i> Research area: Economics & Computation	September 2021 - January 2022
AWARDS	Study Award 2014 for excellent study performance	