Maximilian Fichtl

mfichtl@gmail.com

Academic Positions

September 2023 – September 2024	**Postdoctoral Researcher** at Universidad de Chile.

Education

August 2018 – July 2023	**Ph.D., Technical University of Munich** in Computer Science. Thesis title: *Algorithms for Computing Equilibria in Auctions.* Passed with highest distinction (summa cum laude).
October 2014 – October 2017	**M.Sc., Technical University of Munich** in Mathematics. Thesis title: *A Product-Manifold Based Greedy-Algorithm for 3D Shape Matching.* Passed with high distinction.
October 2013 – September 2014	**B.Sc., Technical University of Munich** in Mathematics, Elite partial course TopMath. Thesis title: *Multi-Marginal Electron Transport and Many-Electron Systems.* Passed with high distinction.
October 2011 – September 2013	**B.Sc., Technical University of Munich** in Mathematics.

Publications

Journal Articles

December 2023	Computing Bayes Nash equilibrium strategies in auction games via simultaneous online dual averaging. M. Bichler, M. Fichtl, and M. Oberlechner. *Operations Research.*
April 2022	Strong substitutes: Structural properties, and a new algorithm for competitive equilibrium prices. E. Baldwin, M. Bichler, M. Fichtl, and P. Klemperer. *Mathematical Programming.*
November 2021	On the expressiveness of assignment messages. M. Fichtl. *Economics Letters.*
August 2021	Learning equilibria in symmetric auction games using artificial neural networks. M. Bichler, M. Fichtl, S. Heidekrüger, N. Kohring, and P. Sutterer. *Nature Machine Intelligence.*
November 2020	Walrasian equilibria from an optimization perspective: A guide to the literature. M. Bichler, M. Fichtl, and G. Schwarz. *Naval Research Logistics.*

Publications (continued)

Conference Proceedings

July 2023	Computing Bayes Nash equilibrium strategies in auction games via simultaneous online dual averaging. M. Bichler, M. Fichtl, and M. Oberlechner. *ACM Conference on Economics and Computation (EC '23).*
July 2022	Core-stability in assignment markets with financially constrained buyers. E. Batziou, M. Bichler, and M. Fichtl. *ACM Conference on Economics and Computation (EC '22).*

Professional Experience

September 2021 – January 2022	**Research Internship** at Meta Core Data Science, London (Remote).
April 2016 – November 2016	**Internship** at MVTec Software GmbH, Munich.

Awards

2014	Study award for outstanding academic achievements (German: "hervorragende Studienleistungen").

Languages

German (native), English (fluent), Spanish (intermediate).