

CARL-CHRISTIAN GROH

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Employment

University of Bonn Postdoctoral researcher	2023-
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Education

University of Mannheim Ph.D. in Economics	2017-2023
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Yale University Visiting Ph.D. student	2021-2022
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Ludwig-Maximilians University Munich B.Sc. and M.Sc. in Economics	2011-2016
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Research Fields

Microeconomic Theory, Industrial Organization, Economics of AI

References

Prof. Benny Moldovanu

University of Bonn
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Prof. Stephan Lauermann

University of Bonn
s.lauermann@uni-bonn.de

Prof. Francesco Decarolis

Bocconi University
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Prof. Volker Nocke

University of Mannheim
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Published and Accepted Papers

Tracking, Price Discrimination, and Disclosure in Sequential Search Markets, accepted at *RAND Journal of Economics*, with Marcel Preuss

Competitive Price Discrimination, Imperfect Information, and Consumer Search, *Journal of Economic Theory*, 2026

Market Design for Personal Data, *Yale Journal on Regulation*, 2023, with Dirk Bergemann, Jacques Crémer, David Dinielli, Paul Heidhues, Maximilian Schäfer, Monika Schnitzer, Fiona Scott Morton, Katja Seim, and Michael Sullivan

Job Market Paper

Pricing Intelligence: Task-Based Learning and Labor Displacement in the AI Economy

What determines the speed of AI-driven labor displacement? I study this question in a dynamic microeconomic model in which users choose between labor and AI to complete tasks. Profit-maximizing AI providers set the price of AI, and AI systems improve through task-specific learning from deployment. Users' willingness to pay for automating tasks where labor has a comparative advantage is relatively low, so providers may optimally price these tasks out of automation. However, AI deployment on these tasks accelerates aggregate AI adoption by reducing AI's comparative disadvantage through learning. I characterize when this tension gives rise to an accelerating path of AI adoption or a learning trap. Competition can accelerate AI adoption by shifting AI deployment and learning toward tasks where AI has a comparative disadvantage, even though it reduces each provider's total data access. Asymmetric competition can further accelerate AI adoption by inducing specialization.

Working Papers

Price Discrimination in Search Markets: The Role of Consumer Awareness, with Jonas von Wangenheim, *Revise and Resubmit at AEJ: Microeconomics*

When Competition Needs Awareness: Regulating Social Media with Naive Users, with Martino Banchio, Francesco Decarolis, Miguel Risco, and Rafael Jiménez-Durán

Business Cycles in the Data Economy, with Oliver Pfäuti and Farzad Saidi

Search, Data, and Market Power

Big Data and Inequality

Scholarships and Awards

Best Reviewers Award of IJIO	2026
Centre for Competition Economics Prize for Young Researchers	2025
CDSE Teaching Award University of Mannheim	2021
CDSE Teaching Award University of Mannheim	2019
Research Prize for Excellent Students Ludwig-Maximilians University Munich	2014
Bayerische Eliteakademie Scholarship Bavarian Elite Academy	2013-2014

Teaching Experience

Auctions and Markets

Bachelor lecture, University of Bonn

Fall/Winter 2025

Fall/Winter 2024

Microeconomics A

Bachelor tutorial, University of Bonn

Spring/Summer 2025

Information Economics

Bachelor lecture, University of Bonn

Spring/Summer 2024

Advanced Macroeconomics III

Ph.D. tutorial, University of Mannheim

Spring/Summer 2023

Spring/Summer 2020

Spring/Summer 2019

Economic Policy

Bachelor tutorial, University of Mannheim

Spring/Summer 2021

Microeconomics A

Bachelor tutorial, University of Mannheim

Spring/Summer 2023

Spring/Summer 2019

Presentations

2026: EEA-ESEM congress · EARIE conference · CRC TR 224 fall retreat · Mannheim Digital Markets Workshop · University of Vienna

2025: UK Competition and Markets Authority · CCE conference · Bocconi · IIOC · Oligo Workshop · SAET · University of Berlin

2024: ASSA annual meeting · MaCCI annual conference · Paris Conference on Digital Economics · IIOC · SED meeting · EARIE conference · Theory & Policy in the Digital Economy

2023: University of Verona · MaCCI annual conference · Search-and-Matching Workshop 2023 · IIOC · Munich Summer Institute · NASM · Stony Brook Conference On Game Theory · EEA-ESEM congress · EARIE conference · VfS annual conference · EU Directorate-General for Competition · BCDMN IO Theory conference · European Winter Meeting of the Econometric Society

2022: Yale University · ENTER Jamboree · CLEEN conference · EEA-ESEM congress · EARIE conference · CRC TR 224 fall retreat · European Winter Meeting of the Econometric Society

Refereeing

American Economic Journal: Microeconomics, American Economic Review: Insights, International Journal of Industrial Organization, Journal of Economic Theory, Journal of Mathematical Economics, RAND Journal of Economics, Review of Industrial Organization