Thilo Klein   CV

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CURRENT POSITIONS

Pforzheim University

Professor (W2) for Quantitative Economics 🖥   **2019 − date**

ZEW − Leibniz Centre for European Economic Research, Mannheim

Senior Researcher, Research Department 'Market Design'   **2017 − date**
Head of Research Area 'Design of Matching Markets' 🖥   **2017 − date**

PREVIOUS POSITIONS

Heilbronn University

Professor (W2) for Quantitative Methods and Business Economics   **2019 − 2019**

OECD − Organisation for Economic Co-operation and Development, Paris

Economist (A2/A3), Statistics Directorate 🖥   **2014 − 2017**

ILO − International Labour Organization, Geneva

Carlo-Schmid-Fellow, Enterprises Department 🖥   **2012 − 2013**

Bayer AG, Leverkusen

Trainee, Supply Chain Management   **2002 − 2004**

EDUCATION

University of Cambridge, UK

Ph.D. in Business Economics   **2010 − 2014**
M.Phil. in Management Science & Operations   **2009 − 2010**

Friedrich-Schiller-University Jena

Diploma in Business Education & Mathematics   **2004 − 2009**

PUBLICATIONS – Articles

Klein, T.; R. Aue; J. Ortega (2024). School Choice with Independent versus Consolidated Districts, *Games and Economic Behavior, 147: 170-205* 🖥.

Ortega, J.; T. Klein (2023). The Cost of Strategy-Proofness in School Choice, *Games and Economic Behavior, 141: 515-528* 🖥.

Reischmann, T.; T. Klein; S. Giegerich (2021). A Deferred Acceptance Mechanism for Decentralized, Fast and Fair Childcare Assignment, *Journal of Mechanism and Institution Design, 6(1): 59-100* 🖥.

– In German

McNamara, S.; T. Klein (2025). Frühe Leistungsdifferenzierung und ihre Konsequenzen: Lehren aus Ungarn für das dreigliedrige Schulsystem, *Wirtschaftsdienst – Zeitschrift für Wirtschaftspolitik, Heft 09/2025* 🖥.

Atayev, A.; G. Caspari; A. Hillenbrand; T. Klein (2025). Mit Ungeduld zu besseren Subventionen für umweltfreundliche Produkte, *Wirtschaftsdienst – Zeitschrift für Wirtschaftspolitik, Heft 06/2025* 🖥.

Steinberg, H.; S. Schüller; Y. Öztürk; T. Klein; Pia Schober (2024). Alleinerziehende in der Betreuungsplatzvergabe: Status quo und Handlungsempfehlungen, *Wirtschaftsdienst – Zeitschrift für Wirtschaftspolitik, Heft 05/2024* 🖥.

Klein, T.; M. Ott (2023). Effiziente und faire Verteilung von Lebensmittelspenden, *Wirtschaftsdienst – Zeitschrift für Wirtschaftspolitik, Heft 08/2023* 🖥.

Gretschko, V.; T. Klein; A. Wambach (2019). Die Regeln machen den Unterschied: Marktdesign, *Wirtschaftswissenschaftliches Studium, 48(4): 22-28* 🖥.

– Discussion Papers

Klein, T; S. McNamara (2025). Shadow Education in Hierarchical Tracking: Socioeconomic Differences in Parental Investments, *ZEW Discussion Paper #25-0xx* 🖥.

Bach, M; T. Klein; S. McNamara (2024). Access, Achievements, and Aspirations: The Impacts of School Tracking on Student Outcomes, *ZEW Discussion Paper #24-076* 🖥.

Klein, T. (2024). Matching for Credit: Identifying Information Asymmetries in Joint-Liability Lending, *ZEW Discussion Paper #24-070* 🖥.

– Discussion Papers (cont'd)	Klein, T. (2023). Analysis of Stable Matchings in R: Package matchingMarkets, *Vignette to R package matchingMarkets (submitted)* 🔗.
	Klein, T. (2017). Intermediation in Peer-to-Peer Markets: Evidence from Auctions for Private Loans, *ZEW Discussion Paper #17-073* 🔗.
	Klein, T.; S. Verhulst (2017). Access to New Data Sources for Statistics: Business Models and Incentives for the Corporate Sector, *OECD Statistics Working Paper #17/01* 🔗.
	Robin, N.; T. Klein; J. Jütting (2016). Public-Private Partnerships for Statistics. Lessons Learned, Future Steps, *OECD Development Co-operation Working Paper #27* 🔗.
	Klein, T. et al. (2016). Making Data Portals Work for SDGs: A View on Deployment, Design and Technology, *PARIS21 Discussion Paper #8* 🔗.
	Klein, T.; A. Galdin; E. Mohamedou (2016). An Indicator for Statistical Literacy Based on National Newspaper Archives, *IASE 2016 Roundtable Paper* 🔗.
– Policy Briefs	Atayev, A.; G. Caspari; A. Hillenbrand; T. Klein (2023). Tapping into People's Impatience for Better Environmental Subsidies, *ZEW Policy Brief Nr. 4, Mai 2023* 🔗.
	Klein, T.; M. Ott (2023). Mit Digitalisierung gegen Lebensmittelverschwendung, *ZEW Policy Brief Nr. 9, Juni 2023* 🔗.
	Klein, T.; P. vom Baur (2019). Matching Practices for Teaching Positions in Public Schools in Germany, *Matching-in-Practice Country Profile # 28* 🔗.
	Herzog, S.; T. Klein (2018). Matching Practices for Childcare in Germany, *Matching-in-Practice Country Profile # 26* 🔗.
	Klein, T. (2018). Matching for Microcredits – Market Design Approaches to Financial Integration, *ZEW News, Economic Policy Analysis, Issue 11/2018* 🔗
	Klein, T. (2018). How Market Design Can Make Food Donations More Efficient, *ZEW News, Economic Policy Analysis, Issue 07/2018* 🔗
	Klein, T. (2018). How Big Data Generated by Companies Can Be Used to Protect the Environment, *ZEW News, Economic Policy Analysis, Issue 02/2018* 🔗
	Klein, T. (2017). How Can Cities Handle the Stampede for Nursery Places?, *ZEW News, Economic Policy Analysis, Issue 06/2017* 🔗.
	Fugger, N.; T. Klein; T. Riehm (2017). Dezentrale Kitaplatzvergabe ohne Warteschlange: Ein Leitfaden, *ZEW Policy Brief Nr. 4, Oktober 2017* 🔗.
	Klein, T. (2017). How to Measure Global Statistical Literacy, *OECD Statistics Newsletter, Issue 66, OECD Publishing* 🔗.
	Jütting, J.; T. Klein (2016). Measuring Support to Statistics in Developing Countries, *OECD Statistics Newsletter, Issue 65, OECD Publishing* 🔗.
– Reports	Aue, R. et al. (2020). The Implication of School Admission Rules for Segregation and Educational Inequality. *ZEW Research Report.* 🔗
	Badiee, S., J. Jütting and T. Klein (2017). The Role of National Statistical Systems in the Data Revolution, *Chapter 3: Development Co-operation Report, OECD Publishing* 🔗.
	Badiee, S., T. Klein and E. Mohamedou (2017). Rethinking Donor Support for Statistical Capacity Development, *Chapter 4: Dev. Co-operation Report, OECD Publishing* 🔗.
	Klein, T. and P. van de Ven (2017). Measuring the Value of Official Statistics, *Chapter 5: UNECE Report on Recommendations for Promoting, Measuring and Communicating the Value of Official Statistics, United Nations ECE* 🔗.
	PARIS21 (2015-17). Partner Report on Support to Statistics, *OECD Publishing* 🔗.
	Espey, J. et al. (2015). Data for Development: A Needs Assessment for SDG Monitoring and Statistical Capacity Development, *Technical Report, United Nations SDSN* 🔗.
– Software	R package `matchingMarkets`: Algorithms and estimators for matching markets 🔗
	`Matching Tools API`: Application programming interface for matching algorithms 🔗
	`KitaMatch`: Software documentation for childcare allocation 🔗

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– Books	Klein, T. (2015). Matching for Credit: Implications for Market Design and Econometric Analysis, *Dissertation, University of Cambridge.*
	Klein, T. (2012). Why Do India's Urban Poor Choose to Go Private? Health Policy Simulations in Slums of Hyderabad, *Ibidem Verlag: Stuttgart, ISBN 978-3-8382-0238-9* 🔗
	Klein, T. (2010). Microfinance 2.0: Group Formation & Repayment Performance in Online Lending Platforms, *Ibidem Verlag: Stuttgart, ISBN 978-3-8382-0118-4* 🔗

REFEREEING

Programme Committee: *15th European Matching-in-Practice Workshop*, Mannheim 2018; *16th European Matching-in-Practice Workshop*, Gothenburg 2019; *17th European Matching-in-Practice Workshop*, 2021 Saint Petersburg

Journals: *Management Science*

GRANTS (SELECTED)

MatchingTools: Matching Algorithms for Education and Labour Markets, Federal Ministry for Economic Affairs and Energy, €415.000	**2025 − 2026**
TafelConnect: Market design for food donations of producers, Federal Ministry of Food and Agriculture, €240.000	**2023 − 2026**
Tapping into people's impatience for better environmental subsidies 🔗, ZEW Sponsors' Association, €40.000	**2023 − 2024**
KitaMatch: Software for fast, fair and transparent daycare matching 🔗, Bertelsmann Foundation, €40.000	**2021 − 2023**
eco-Plattform: Market design for food donations of retailers 🔗, Federal Ministry of Food and Agriculture, €240.000	**2019 − 2023**
iLearn: Improving school admissions for diversity and better outcomes 🔗, Leibniz Association, €340.000 (joint with DIW Berlin)	**2019 − 2023**
Design and impact of admissions rules for schools 🔗, ZEW, €330.000	**2019 − 2022**

PRESS COVERAGE

Environmental subsidies

Mannheimer Morgen 06/2023 🔗

Market design for food donations

Mannheimer Morgen 08/2023 🔗 08/2023 🔗 08/2023 🔗; Mannheimer Morgen 07/2023 🔗; Süddeutsche Zeitung 07/2023 🔗; Zeit 07/2023 🔗; Welt 07/2023 🔗; Focus 07/2023 🔗; Stern 07/2023 🔗; WirtschaftsWoche 01/2020 🔗; Welt 06/2018 🔗

Algorithms for matching markets

Frankfurter Rundschau 10/2023 🔗; Table.Media 10/2023 🔗; Süddeutsche Zeitung 09/2023 🔗; Tagesspiegel 08/2023 🔗; Zeit 08/2023 🔗; WirtschaftsWoche 12/2021 🔗; Zeit 02/2021 🔗; WirtschaftsWoche 01/2020 🔗; FAZ 11/2019 🔗; Rheinpfalz 10/2018 🔗; WDR 06/2018; Westfälische Nachrichten 03/2018 🔗; FAZ 06/2017 🔗

CONFERENCES ORGANISED

Workshop on Algorithmic School Choice, Paderborn 2023; *Easter Workshop on School Choice*, Belfast 2022; *15th European Matching-in-Practice Workshop*, Mannheim 2018; *OECD-PARIS21 Big Data Workshop*, Paris 2015; *CJBS Doctoral Conference*, Cambridge 2011–2014.

TEACHING (SELECTED)

Pforzheim University

Analysis and Linear Algebra; Statistics I+II; Econometrics; Mathematical Optimization; Predictive Analytics; Risk Management	**2019/20 − date**

Heilbronn University

Models of Data Assessment; Digital Economy; Academic Writing	**2018/19**

University of Mannheim

Market Design: Auctions and Matching Algorithms (with V. Gretschko)	**2018/19**

University of Tübingen

Microfinance (Credit, Savings & Insurance)	**2013/14**

University of Cambridge

Game Theory; Econometrics I+II; Quantitative Methods I+II	**2010/11 − 2014/15**