

# Fabian Moritz Fuchs

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 0009-0006-2819-585X |  Fabian Fuchs

## ACADEMIC POSITIONS

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*Postdoctoral Research Fellow*, Luiss Guido Carli, Department of AI, Data and Decision Sciences, Sep 2025 - now.

*Research Associate*, Bielefeld University, Center for Mathematical Economics (IMW), Dec 2022 - Aug 2025.

*Researcher – Global Skills Strategy Program*, University of Waterloo, Department of Statistics & Actuarial Science, Jun 2025.

*Teaching Assistant*, University of Konstanz, Department of Mathematics, Apr 2022 - Aug 2022.

*Research Assistant*, University of Konstanz, Department of Economics, Apr 2021 - Mar 2022.

*Research Assistant*, University of Konstanz, Department of Mathematics, Apr 2021 - Oct 2021.

*Research Assistant*, San Francisco State University, Lam Family College of Business, Mar 2020 - May 2020.

## EDUCATION

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*Doctoral Candidate* in BiGSEM (Finance Profile), Bielefeld University, 01.12.2022 - now.

*Master of Science (M.Sc.)*, *Financial Mathematics*, University of Konstanz, 10.10.2022.

*Bachelor of Science (B.Sc.)*, *Financial Mathematics*, University of Konstanz, 22.04.2021.

## PUBLICATIONS AND PREPRINTS

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- [1] S. D. Corte, F. Fuchs, R. C. Kraaij, and M. Nendel, *A Strict Comparison Principle for Integro-Differential Hamilton-Jacobi-Bellman Equations on Domains with Boundary*, 2025. arXiv: [2512.04005](https://arxiv.org/abs/2512.04005) [math.AP].
- [2] F. Fuchs and M. Nendel, *Existence of Viscosity Solutions to Abstract Cauchy Problems via Nonlinear Semigroups*, 2025. arXiv: [2502.18270](https://arxiv.org/abs/2502.18270) [math.AP].
- [3] S. D. Corte, F. Fuchs, R. C. Kraaij, and M. Nendel, *A comparison principle based on couplings of partial integro-differential operators*, 2024. arXiv: [2410.19566](https://arxiv.org/abs/2410.19566) [math.AP].

## SELECTED TALKS

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*Mathematical Models for the Impact of Human Activities on the Environment and Economic Decision Making* (Luiss Guido Carli, Rome), 02.10.2025.

*ISIPTA 2025* (Bielefeld University), 15.07.2025.

*12th General AMaMeF Conference* (University of Verona), 25.06.2025.

*Mathematics of Uncertain Systems for Economics and Finance* (Rimini), 26.05.2025.

*Risk and Uncertainty in Economics and Finance* (University of Johannesburg), 04.04.2025.

*17th German Probability and Statistics Days* (TU Dresden), 12.03.2025.

*FDM-Seminar* (Universität Freiburg), 25.10.2024. *Invited Talk*.

*BGTS Doctoral Day 2024* (Bielefeld University), 11.10.2024.

*7th Berlin Workshop on Mathematical Finance for Young Researchers* (HU Berlin, TU Berlin), 05.09.2024.

*12th Bachelier World Congress of the Bachelier Finance Society* (FGV EMAp, Rio de Janeiro), 10.07.2024.

*QED Jamboree 2024* (Universiteit van Amsterdam), 25.05.2024.

*QFW 2024* (Università degli studi di Bologna), 11.04.2024.

## TEACHING

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*Finance 2*, Bielefeld University, Teaching Assistant, Summer Term 2024.

Tutorials in *Probability Theory; Stochastic Processes; Corporate Finance*.

## AWARDS, GRANTS, AND THIRD PARTY FUNDING

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Research grant *Impact of the Human Activities on the Environment and Economic/Financial Decision Making: Mathematical Models through Stochastic* (ssd STAT-04/A), Scientific Director Prof. Fausto Gozzi, Sep 2025 - Mar 2028.

*Best Course Award* of the Faculty for Business Administration and Economics, Bielefeld University, for *Tutorial Finance 2*, Jul 2024.

Investigator in Project C7 *Markovian dynamics under model uncertainty* of Bielefeld University's CRC 1283, funded by the German Research Foundation (Deutsche Forschungsgemeinschaft), Dec 2022 - Aug 2025.

## ORGANIZATION AND SUPPORT OF ACADEMIC EVENTS

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*ISIPTA 2025* (ZiF, Bielefeld), member of the organizing committee, 15.07.2025 - 18.07.2025.

*Mathematics of Uncertain Systems for Economics and Finance* (Hotel Sporting, Rimini), member of the organizing committee, 26.05.2025 - 30.05.2025.

*19th BiGSEM Workshop* (ZiF, Bielefeld), organizer, 16.12.2024 - 17.12.2024.

*11th General AMEMaF Conference* (Ravensberger Spinnerei, Bielefeld), member of the local organizing committee, 26.06.2023 - 30.06.2023.

## OTHER ACADEMIC POSITIONS

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Member of the Board of the Center for Mathematical Economics (IMW), Bielefeld University, Apr 2023 - Aug 2025.

## REFEREE ACTIVITIES

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Mathematics and Financial Economics; SIAM Journal on Financial Mathematics

## SUPERVISED MASTER'S THESES

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Nina Brinkhaus (supervisory support for Max Nendel, 2024); Kristina Wegner (supervisory support for Max Nendel and Frank Riedel, 2024).

## OTHER POSITIONS

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*IT Support* of the Center for Mathematical Economics (IMW), Bielefeld University, Nov 2023 - Aug 2025.

## LANGUAGES

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English (C2), German (C2), Italian (A1)