

# Curriculum Vitae

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## Toyomu Matsuda

École Polytechnique Fédérale de Lausanne, EPFL  
SB MATH STOAN, MA C2 584, 1015 Lausanne, Switzerland

Email: [toyomu.matsuda@epfl.ch](mailto:toyomu.matsuda@epfl.ch)

Website: <https://toyomumatsuda.github.io/>

Nationality: Japan

Pronoun: he/him

## EMPLOYMENT

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- 10.2023 – Postdoc, *EPFL*  
– STOAN group run by Prof. Xue-Mei Li

## EDUCATION

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- 09.2023 PhD in Mathematics, *Freie Universität Berlin*  
– Supervised by Prof. Nicolas Perkowski  
– A member of the IRTG 2544 (URL)  
– Research stay at University of Oxford (2022 Sept – 2023 Feb) hosted by Prof. Rama Cont
- 03.2020 MSc in Mathematics, *Kyushu University*  
– Supervised by Prof. Yuzuru Inahama
- 03.2018 BSc in Mathematics, *Kobe University*  
– Supervised by Prof. Kajino Naotaka

## RESEARCH INTEREST

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- Stochastic analysis and stochastic (partial) differential equations
- Disordered systems
- Gaussian stochastic calculus (e.g., fractional Brownian motion)

## PREPRINTS

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1. P. Das, R. Łochowski, T. Matsuda, and N. Perkowski. *Level crossings of fractional Brownian motion*. 2023. arXiv: 2308.08274 [math.PR].
2. T. Matsuda and W. van Zuijlen. *Anderson Hamiltonians with singular potentials*. 2023. arXiv: 2211.01199 [math.PR].

3. T. Matsuda and N. Perkowski. *An extension of the stochastic sewing lemma and applications to fractional stochastic calculus*. 2022. arXiv: 2206.01686 [math.PR].

## PUBLISHED

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1. T. Matsuda. “Integrated density of states of the Anderson Hamiltonian with two-dimensional white noise”. *Stochastic Processes and their Applications* 153 (2022), pp. 91–127. URL: <https://www.sciencedirect.com/science/article/pii/S0304414922001727>.

## ORGANIZATION OF CONFERENCES

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- 16th Oxford-Berlin Young Researchers Meeting on Applied Stochastic Analysis, Dec 8-10, 2022.

## TEACHING

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- Probability 2 (discrete-time stochastic processes), tutorials, 2022 summer, FU Berlin.

## MISCELLANEOUS

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- Information on talks is available at <https://docs.google.com/spreadsheets/d/1Hq3xC7zkISbY0wTR03Kgfj2qLucA5ffEd2mheP6sg2M/edit#gid=0>.
- Referee activities for e.g., Electronic Journal/Communications of Probability, Stochastics and Partial Differential Equations: Analysis and Computations, Bernoulli.