

# TOYOMU MATSUDA

PhD candidate, Institut für Mathematik, Freie Universität Berlin.

Email: [toyomu.matsuda@fu-berlin.de](mailto:toyomu.matsuda@fu-berlin.de)

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

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## Education

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- Sep 2023 PhD in Mathematics, Freie Universität Berlin (expected).  
Supervised by Prof. Nicolas Perkowski.  
A member of the IRTG 2544: Stochastic Analysis in Interaction.  
Research stay in Oxford hosted by Prof. Rama Cont (Oct 2022 - Feb 2023).
- Mar 2020 MSc in Mathematics, Kyushu University.  
Supervised by Prof. Yuzuru Inahama.
- Mar 2018 BSc in Mathematics, Kobe University.  
Supervised by Prof. Kajino Naotaka.

## Research interest

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- Gaussian stochastic calculus (e.g. study of fractional Brownian motion)
- Disordered systems
- Stochastic (partial) differential equations

## Publications and Preprints

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### Publications.

- [1] Toyomu Matsuda. Integrated density of states of the anderson hamiltonian with two-dimensional white noise. *Stochastic Processes and their Applications*, 153:91–127, 2022.

### Preprints.

1. *An extension of the stochastic sewing lemma and applications to fractional stochastic calculus*, with Nicolas Perkowski, 2022.
2. *Anderson Hamiltonians with singular potentials*, with Willem van Zuijlen, 2022.

## Organizations of conferences and seminars

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

## Teaching

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Summer 2022 Probability 2 (discrete-time stochastic processes), tutorials.

## Miscellaneous

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- Information on talks is available at <https://docs.google.com/spreadsheets/d/1Hq3xC7zkISbY0wTR03Kgfj2qLucA5ffEd2mheP6sg2M/edit#gid=0>.