



Technische Universität Berlin offers an open position:

## **Research Associate (PostDoc) - salary grade E13 TV-L Berliner Hochschulen - 2nd qualification period (for taking up a full professorship for the first time)**

part-time employment may be possible

**Faculty II - Institute of Mathematics / Department of Stochastic Analysis**

**Reference number:** II-559/24 (starting at 01/02/25 / limited for 5 years / closing date for applications 01/12/24)

### **Working field:**

Work in research and teaching at the Institute of Mathematics (Stochastic Analysis), including supervision of seminars and lectures, teaching of exercise classes (4 SWS for a full-time position), co-supervision of Bachelor and Master students/theses.

The research comprises several fields, including conservative stochastic PDEs, singular SPDEs, mathematics of machine learning, interacting particle systems, nonequilibrium statistical mechanics, stochastic fluid dynamics.

We aim to investigate questions of well-posedness, regularity, qualitative behavior, equilibrium and nonequilibrium large deviations and their numerical simulation. In the mathematics of machine learning we focus on universal limits, stochastic learning dynamics, and generalization errors.

### **Requirements:**

- Successfully completed university degree (Master, Diplom or equivalent)
- At the time of hire, proof of completion of doctoral degree in mathematics, with a focus on stochastic analysis, PDEs, or mathematics of machine learning must be submitted
- The ability to teach in German and/or in English is required; willingness to acquire the respective missing language skills

More information can be obtained from Prof. Dr. Benjamin Gess ([benjamin.gess@gmail.com](mailto:benjamin.gess@gmail.com)).

Please send your application **with the reference number** and the usual documents (in particular short motivation letter, complete and up-to-date curriculum vitae, names and contact details of at least 2 referees, Bachelor's and Master's transcripts, certificates (with grades) **by email** (single pdf file, max. 5 MB) to Sachiyo Yamauchi ([personal@math.tu-berlin.de](mailto:personal@math.tu-berlin.de)).

By submitting your application via email you consent to having your data electronically processed and saved. Please note that we do not provide a guarantee for the protection of your personal data when submitted as unprotected file. Please find our data protection notice acc. DSGVO (General Data Protection Regulation) at the TU staff department homepage: [https://www.abt2-t.tu-berlin.de/menue/themen\\_a\\_z/datenschutzerklaerung/](https://www.abt2-t.tu-berlin.de/menue/themen_a_z/datenschutzerklaerung/).

To ensure equal opportunities between women and men, applications by women with the required qualifications are explicitly desired. Qualified individuals with disabilities will be favored. The TU Berlin values the diversity of its members and is committed to the goals of equal opportunities. Applications from people of all nationalities and with a migration background are very welcome.

The vacancy is also available on the internet at <https://www.personalabteilung.tu-berlin.de/menue/jobs/>

