

Two-Dimensional Stochastic Interface Growth (TU Wien Supervisor: F. Toninelli)

This PhD project focuses on the mathematical (probabilistic) study of stochastic interface growth and its relation with the so-called Kardar-Parisi-Zhang (KPZ) Stochastic PDE. The understanding of one-dimensional models has witnessed spectacular progress in the last decade, in the probability and mathematical physics communities. The focus of the project will be rather on the (much less understood) two-dimensional case. This project will involve mathematical tools both from discrete probability/statistical mechanics (e.g. two-dimensional dimer models and their Markov dynamics) and from analysis of stochastic PDEs.

Applications have to be sent online to: barbara.triebl-kraus@tuwien.ac.at; see [TU Wien University Gazette 4/2020, 58.2](#). The deadline for application is **February 20, 2020**.