The **Vienna School of Mathematics (VSM)** is a joint graduate school of the mathematics faculties of the **University of Vienna** and the **TU Wien**. The VSM is devoted to top-level PhD education in all branches of mathematics. It fosters intra- and interdisciplinary scientific cooperation and networking among students and advisors and aims at increasing the international visibility of the Vienna area as a center for mathematics.

The VSM currently announces a University Assistant/PhD position in the area of

Uncertainty Quantification
(TU Wien, Supervisor: L. Taghizadeh)

We are looking for a highly motivated potential PhD Student to join the Research Group for Uncertainty Quantification (starting April 2026) at TU Wien. The research group Uncertainty Quantification (UQ) develops advanced computational and numerical techniques from mathematics, statistics and probability to optimally account for uncertainties in physical or biological phenomena in computational science and engineering, which are usually modeled by partial differential equations (PDEs). Our research focuses on theoretical and methodological aspects, as well as on interdisciplinary projects with various applications including nanoelectronics, medical imaging, biology, and medicine.

You are a perfect fit for our group if

- *you are enthusiastic about PDEs, developing new algorithms and numerical methods in applied mathematics, uncertainty quantification, Bayesian inverse problems, and machine learning.*
- *you are enthusiastic about applying new algorithms and methods to real-world applications, e.g., in nanotechnology, medicine, imaging, and biology.*
- *you have good skills of implementing numerical methods with programming languages such as MATLAB and/or Python.*

The Ph.D. project will be concerned with uncertainty quantification and machine learning for PDE-based Bayesian inverse problems. The concrete thesis project will be developed jointly with the successful applicant.
The basic requirement for the position is a good working knowledge of numerical methods for partial differential equations (PDEs). Additionally we require very good programming skills in MATLAB and/or Python. Prior working knowledge and experience of machine learning and Bayesian methods is an advantage.

The advertised position is associated with the Institute of Analysis and Scientific Computing (ASC) of TU Wien in the Research Group for Uncertainty Quantification. The successful candidate will become a member of the Vienna School of Mathematics and is expected to actively contribute to its activities. The extent of employment is 30 hours per week, starting in April 1st, 2026, initially for one year with an option for the extension to three years in total using project fund.

Application Requirements and Procedure
The candidates must have a master's degree (or equivalent) in Mathematics at the moment the PhD position starts. The application documents should contain a letter of motivation (stating your motivation and background

for applying for the position in our group); the scientific CV with publications list; higher education certificates/diplomas; transcript of grades; and two letters of recommendation. Applications including the above documents have to be submitted through the TU Wien Job platform

https://jobs.tuwien.ac.at/Job/263085

The deadline for applications is **February 26, 2026.**