

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 PhD position in the area of

Modelling heterogeneous cell clusters and their environment
(University of Vienna, Supervisor: Angelika Manhart)

What is the project about?

What happens when cells move as a group? Why are cancer cell clusters more successful at metastasizing than single cells? This interdisciplinary project investigates the science of cell coordination. We combine mathematical modeling and simulation with experiments to explore how cell properties, their environment, and cell-cell communication shape collective behavior. While relevant to processes like development and wound healing, we focus on cancer spread using cells from breast cancer patients.

More information on the project: <https://angelikamanhart.github.io/astra.html>

Details on requirements & application form: <https://biomathematik-group-backend.univie.ac.at/call/2025/10/>

The advertised position(s) is/are associated with the Faculty of Mathematics of the **University of Vienna** in the Research Group on Biomathematics of Angelika Manhart. The successful candidate(s) will become a member/members of the Vienna School of Mathematics and is/are expected to actively contribute to its activities. The extent of employment is 30 hours per week. The position will start on Februar 1st, 2026.