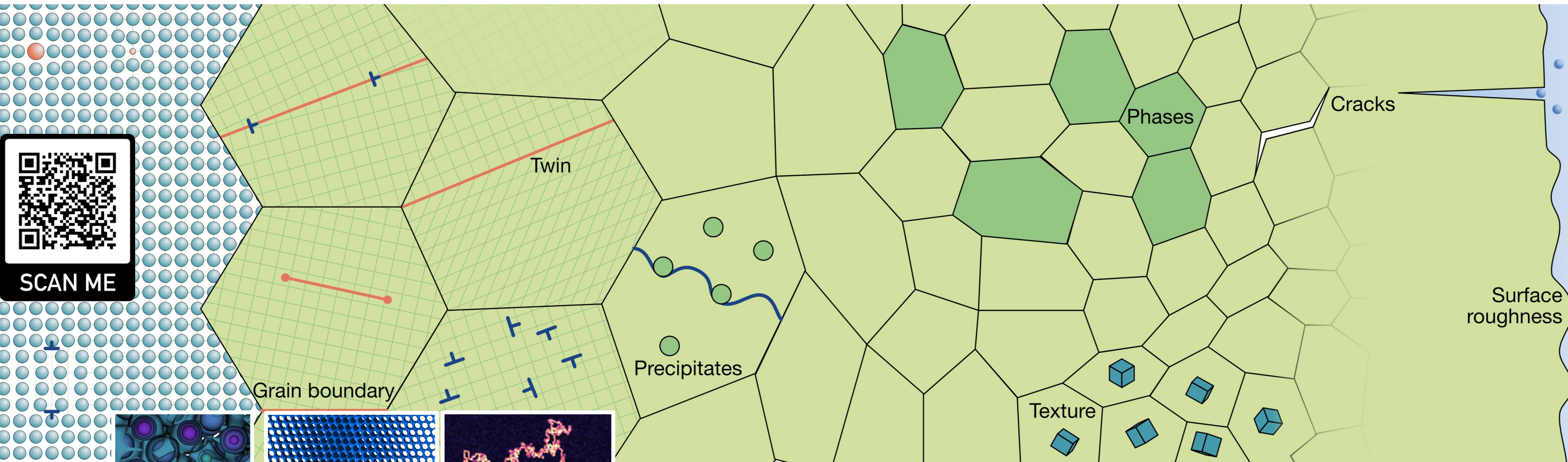
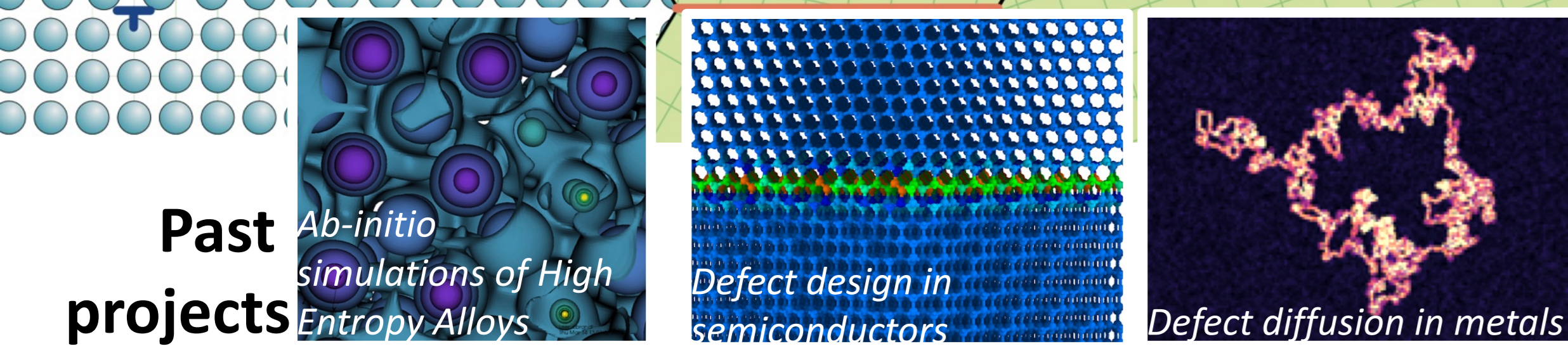
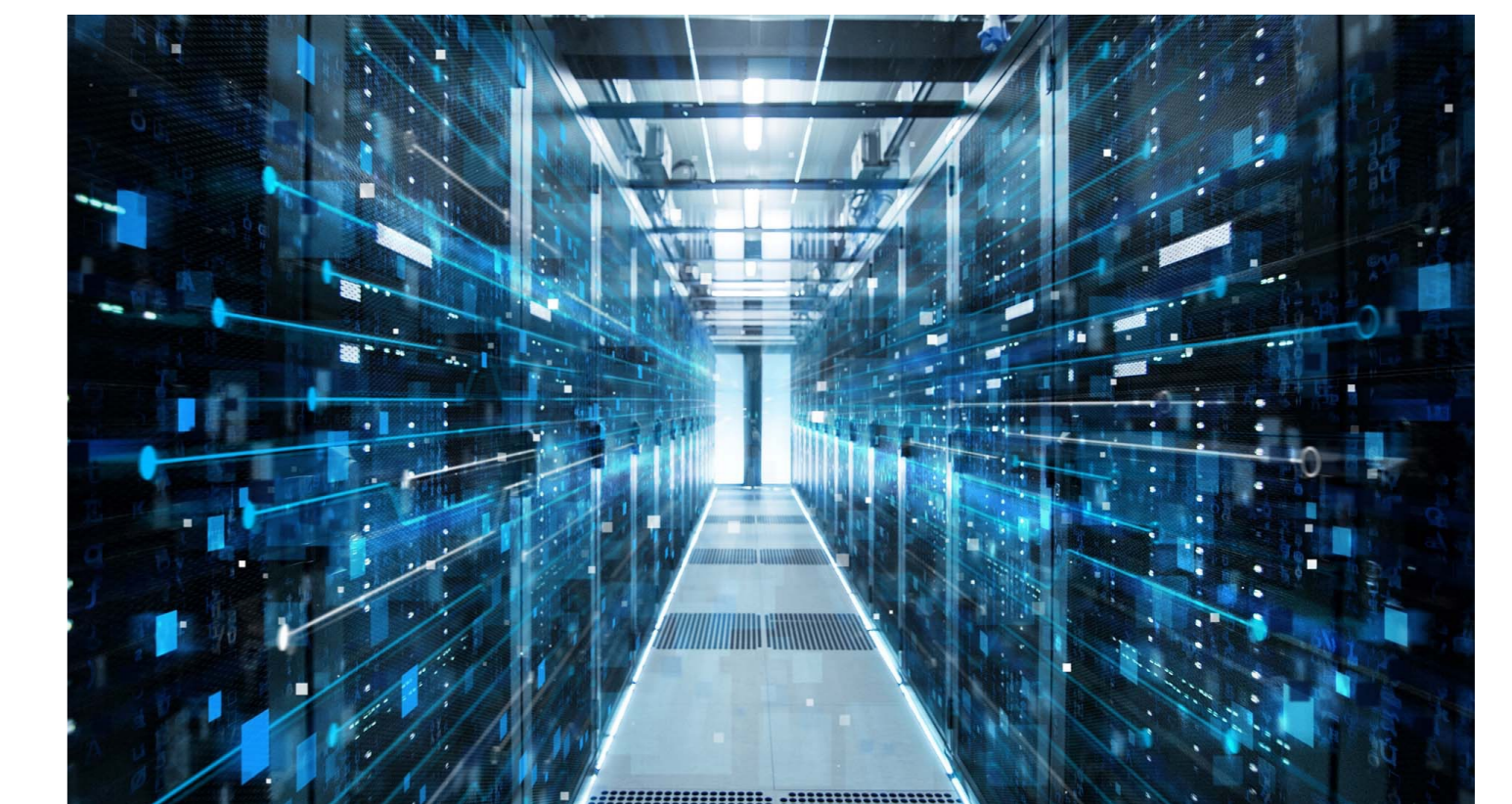


Ph.D. research in computational materials engineering & micromechanics



What do we do?

We use *advanced computing resources* to study *mechanical behaviours of materials* using *multiscale materials modelling*



“Reliable materials need reliable models”

Currently available PhD project

- Mechanics of nanostructured materials
- Materials for a safe hydrogen economy
- From the atom to a turbine: Computational materials engineering of novel high-temperature materials
- Multiscale modelling of additive manufacturing

Collaborations:

- RWTH Aachen (Germany)
- Forschungszentrum Jülich FZJ (Germany)
- Karlsruhe Institute of Technology KIT (Germany)
- University of Birmingham (UK)
- University of Manchester (UK)
- IIT Kanpur (India)
- University of Toronto (Canada)
- ...

Prerequisites & application:

Background in materials science, materials engineering, mechanics of materials, or/ and physics is necessary for the type of work in our group.

If you wish to discuss Ph.D. projects, please contact Dr. Brandl and include:

- A short Curriculum Vitae
- An overview of B.Sc. & M.Sc. courses and grades
- A brief motivation for a specific Ph.D. project

