

**Dr. Thomas Lichtenegger**  
**Young Career Project *Recurrence CFD – A Novel, Extremely Fast Simulation***  
***Technique for Complex Multiphase Flows***

Dr. Thomas Lichtenegger has been head of research for mesoscale modeling of granular currents at the Department for Particulate Flow Modelling at the JKU since 2014.

After completing a degree in Theoretical Physics with a focus on quantum mechanical multi-particle systems at the JKU, he spent a year as a post-doctoral candidate at the University at Buffalo, New York where he focused in depth on the field of quantum fluids. Dr. Lichtenegger remarked, "While searching for new challenges I wanted to focus on something that shows a wider range of applications."

The LIT project will form the basis of for his post-doctorate studies. He appreciates the academic freedom he has, "...because normally we work closely with industrial partners and are automatically confronted with very complex problems. This project allows me to think about the fundamentals and the physics behind it."