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Research Interests: Calculus of Variations, Geometric Measure Theory, Material Science, Multiscale Analysis

Research:

In my current research I am studying, under the supervision of Andrea Braides, the derivation of continuum theories from discrete systems in a variational Framework using methods from geometric measure theory and methods involving multiscales. Such models can be useful to describe composite Materials, Nanomaterials, such as carbon nanotubes, but also to justify certain assumptions in the continuum theory.
My research interests range among calculus of variations, geometric measure theory, material science and partial differential equations.

Education:

Current position: Ph.D Student
GSSI - Gran Sasso Science Institute L'Aquila
Advisor: Prof. Andrea Braides

2013-2014: Master degree (TopMath)
Technische Universität München
Advisor: Prof. Marco Cicalese
Thesis: Discrete-to-Continuum Limit Of The Bell-Lavis Model For General Densities
Master of Science with Honours in Mathematics

2012-2013 Bachelor Degree in Mathematics Elite Partial Course TopMath at TUM
Thesis: Discrete-to-Continuum Limit for a 2-D Model of "Water dislocation"

2010-2012: Bachelor of Science
Technische Universität München
Minor: Informatics