

Object: 1 PostDoctoral position for 2 years at the Department of Mathematics of the Technical University of Munich

Munich, September 9, 2018

Dear Colleagues,

we are advertising 1 PostDoctoral position for a term of up to 2 years at the Department of Mathematics of the Technical University of Munich within the DFG Project “Identification of Energies from Observations of Evolutions”.

Our research

We perform mathematical research oriented to applications in data analysis and time dependent phenomena (e.g., image processing, compressed sensing, machine learning, fracture simulation, social dynamics and control of multiagent interactions), employing several related methods in variational calculus, optimal transport, nonlinear PDEs, optimization and optimal control, numerical analysis. *The project will be focused on the learning/approximation of energies governing certain evolutions (gradient flow or rate independent evolution) from observations of the dynamics.*

Environment

Our unit in Applied Numerical Analysis is a very active research group with a strong international profile (<http://www-m15.ma.tum.de/>). The Department of Mathematics of the Technical University of Munich is a young, stimulating, and dynamical environment, offering excellent working conditions. It performs research on a broad spectrum of mathematical topics (<https://www.ma.tum.de/en/research/research-fields.html>), qualifying itself as one of the strongest centers of applied mathematics in Germany. The Technical University of Munich is internationally renowned as one of the best schools in Europe.

We offer

To the successful candidate will be offered a research position up to 2 years with competitive salaries depending on qualification. The work is additionally supported with individual research funding (c.a. 10.000,00 EUR/year). No teaching duties are requested. We provide both

individual supervision and independent career promotion. The starting is at the earliest convenience (negotiable). **Application deadline: October 31, 2018 , or until filled.**

This advertisement will keep online until the position is filled.

We search

Interested candidates with a strong background in one or more of the following fields

- inverse problems and parameter identification in PDE, learning theory, variational calculus, optimal transport optimization and optimal control, nonlinear PDE –

are invited to apply, by electronically submitting a motivation letter, curriculum, including publication list, a description of research interests, up to 3 letters of recommendation in pdf format. Outstanding candidates in related topics not listed above would also be considered.

Enquiries regarding the position and the application should be directed to Massimo Fornasier (massimo.fornasier@ma.tum.de).

Sincerely Yours



Massimo Fornasier