



## One PostDoctoral position at the Department of Mathematics of the Technical University of Munich

Dear Colleague,

we are advertising **1 PostDoctoral** position for a term of up to 4 years at the Department of Mathematics of the Technical University of Munich within the ERC-Starting Grant project *High-Dimensional Sparse Optimal Control*.

### Our research

We perform mathematical research oriented to applications in data analysis and time dependent phenomena (e.g., image processing, fracture simulation, remote satellite sensing for Earth observation, data analysis and modelling of pulsating stars, social dynamics and control of multiagent interactions), employing several related methods in variational calculus, nonlinear PDEs, optimization and optimal control, functional and harmonic analysis, numerical analysis. A short description of the scientific plan of the ERC-Starting Grant project *High-Dimensional Sparse Optimal Control* is reported below.

### 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 is composed of 17 research units representing all the relevant fields of applied and numerical mathematics (<http://www.ma.tum.de/Mathematik/Forschung>), qualifying itself as one of the strongest centers of applied mathematics in Germany. The Technical University of Munich has been recently confirmed as a *University of Excellence* in Germany, and in the next years will be subjected to further relevant developments, in particular with a very new and competitive *tenure track career system* (<http://www.exzellenz.tum.de/1/homepage/>).

### We offer

To the successful candidates will be offered a research position up to 4 years with competitive salaries depending on qualification. The work is additionally supported with individual research funding (c.a. 10.000,00 EUR/year for each researcher). No teaching duties are requested. We provide both individual supervision and independent career promotion. The starting is at the earliest convenience (negotiable). **Application deadline: January 15, 2014**, 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

Prof. Dr.  
**Massimo Fornasier**

Boltzmannstraße 3  
 85748 Garching  
 Germany

Tel.: +49.89.289.17485  
 Fax: +49.89.289.18435

[massimo.fornasier@ma.tum.de](mailto:massimo.fornasier@ma.tum.de)  
[www-m15.ma.tum.de](http://www-m15.ma.tum.de)

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Technische Universität München



Fakultät für Mathematik  
Lehrstuhl für Angewandte  
Numerische Analysis

fields - *inverse problems and parameter identification in time dependent evolutions, learning theory, optimization and optimal control,*

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.

**Enquiries regarding the positions and the applications should be directed to Massimo Fornasier ([massimo.fornasier@ma.tum.de](mailto:massimo.fornasier@ma.tum.de)).**

Sincerely yours

A handwritten signature in blue ink, appearing to read 'Massimo Fornasier'.

Massimo Fornasier