

# Mario Teixeira Parente

## Academic CV

Boltzmannstraße 3  
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🌐 [www.mateipa.de](http://www.mateipa.de)

### Education

- 10/2016 – now *Technical University of Munich (TUM)*  
**Applied mathematics (Ph.D.)**  
PhD Thesis Algorithms in Uncertainty Quantification
- 10/2013 – 04/2016 *Ludwig-Maximilians-Universität Munich (LMU)*  
**Mathematics (M.Sc.)**  
Master Thesis Brownian Motion and the Dirichlet Problem
- 10/2010 – 09/2013 *University of Applied Sciences Munich (HM)*  
**Scientific computing (B.Sc.)**  
Bachelor Thesis N.V. Krylov's Proof of the de Moivre-Laplace Theorem



### Scholarships

- 04/2012 – 05/2016 **German Academic Scholarship Foundation** (Studienstiftung des deutschen Volkes)  
04/2012 – 04/2016 **Max Weber-Program of the State of Bavaria** (Max Weber-Programm Bayern)  
10/2011 – 03/2012 **Deutschlandstipendium**

### Teaching

- Summer 2018 **Numerics for ODEs**, *Tutor*, TUM  
Winter 2017/18 **Introduction to Numerical Linear Algebra**, *Tutor*, TUM  
Summer 2017 **Introduction to Programming**, *Tutor*, TUM  
Summer 2017 **Hauptseminar: Uncertainty Quantification with Efficient Monte Carlo Methods**, TUM  
Winter 2015/16 **Stochastics**, *Tutor*, LMU  
Winter 2014/15 **Analysis I**, *Tutor*, LMU  
Winter 2011/12 **Linear algebra and Software engineering**, *Tutor*, HM

### Publications

#### Preprints

- 01/2018 **M. Teixeira Parente**, S. Mattis, S. Gupta, C. Deusner, B. Wohlmuth. *Efficient parameter estimation for a methane hydrate model with active subspaces*

#### Journal papers

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### Talks, Conferences, etc.

- 03/2018 **M2 Oberseminar**, *Active subspaces for Bayesian inversion, Application for a methane hydrate model*, Garching (slides)  
09/2017 **FrontUQ** (Frontiers of Uncertainty Quantification in Engineering), Munich

### Trainings

- 03/2017 **Parallel Programming of High Performance Systems**, Leibniz Computing Centre (LRZ)  
02/2017 **Advanced C++ with Focus on Software Engineering**, Regionales RechenZentrum Erlangen (RRZE)

### Experience

06/2016 – 09/2016 **Student assistant**, HM, Research project: Modeling and simulation of pedestrian movement  
04/2016 – 05/2016 **Research internship**, Yale University (USA), Image processing of nanoscopic images in cell biology  
10/2012 – 11/2013 **Student assistant**, HM, Research project: Modeling and simulation of pedestrian movement

A handwritten signature in blue ink, reading "M. Teixeira Pereira". The signature is fluid and cursive, with the first letter 'M' being large and stylized.

Munich, March 6, 2018