Mario Teixeira Parente

Academic CV

Boltzmannstraße 3
85748 Garching near Munich
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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-UniversitÃd't 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

Munich, March 4, 2018