



DAEDALUS

RTG 2433

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A review of 2018 and an outlook for 2019

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DAEDALUS recruitment process

In June 2018 we started seeking highly motivated young scientists by advertising 14 open PhD positions among others on our DAEDALUS website as well as on several job portals. The candidates were considered according to their eligibility for the different projects. Shortlisted candidates were invited and interviewed. Currently 13 of the 14 PhD positions have been filled. The first students started in October 2018, the last contracts will be signed by the beginning of February 2019. We are still seeking a talented research assistant for project 8 (Regression for uncertainty quantification in PDE's with stochastic coefficients) at the Otto-von-Guericke-Universität in Magdeburg.

Interdisciplinary welcome week

The welcome week took place between 22 and 24 October 2018 at the TU Berlin. After an introductory talk about DAEDALUS held by Professor Wolf-Christian Müller the PhD candidates introduced themselves and their research interests to the group by giving short oral presentations followed by a poster session. On the following days principal investigators (PIs) and additional involved scientists presented their research areas and interests. Furthermore, Jane Bormeister held a short workshop on presentation skills for junior scientists, Professor Martin Skutella gave a talk with the topic 'Berlin Mathematics', a scientific speed dating took place and on the final day we visited the German Bundestag.

Intensive course period

During the intensive course period the students were taught basic competencies in the main research areas of our RTG with the following topics: Data acquisition and analysis/machine learning, optimization and optimal control, sparsity and low-rank approximation, uncertainty quantification, (partial) differential equation based-modelling and solvers and multiscale problems. The courses were given by Professor Reinhold Schneider, Professor Jörn Sesterhenn, Professor Christof Schütte, Professor Volker Mehrmann, Professor Klaus-Robert Müller, Professor Gitta Kutyniok and their co-workers and comprised of theoretical and practical components.

Future events

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| 21 January 2019
4:15 pm – 6 pm | BIMoS Day 'Geometric Modelling with Discrete Differential Geometry' by Professor Alexander Bobenko (TU Berlin) |
| From 1 pm – 4 pm | Prior to this all PhD students will meet with Professor Gitta Kutyniok and Tina Schwabe to discuss organisational matters and elect student representatives |
| 14 February 2019
4:15 pm – 6 pm | BIMoS Distinguished Lecture 'Recent Theoretical and Computational Advances in the Optimization of Process Systems under Uncertainty' by Professor Ignacio E. Grossmann (University Pittsburg) |

- 31 March 2019** Due date for submission of the 1st progress report of the PhD students
- 02-03 May 2019** DAEDALUS research retreat
taking place near Berlin (further information will follow)

This is a preliminary list. We further plan to organise soft skill courses for all PhD students, among others an Unconscious Bias Training and courses about good scientific practice and debating. Towards the end of the year the first DAEDALUS winter school will take place.

Thank you all for your contributions. I wish you all a successful start of DAEDALUS and a great year 2019!

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