

Name Dirk Fey
Date of birth 08/06/1979
City of birth Heidelberg, Germany



Research Student (PhD)

Topic: Parameter estimation in biochemical reaction networks

Since 10/07 PhD Student with the **Industrial Control Centre**
University of Strathclyde, Glasgow, Scotland, UK

01/07 – 09/07 PhD Student with the **Hamilton Institute** (Systems Biology Group),
National University of Ireland Maynooth, Co. Kildare, Ireland

Study (Diplom/Master) Grade of final Diploma: very good*

10/01 - 12/06 Study of **Engineering Cybernetics** at University of Stuttgart, Germany
Topics: Automatic Control, Systems Theory, Informatics

06/06 - 10/06 Internship with BASF chemical company in Ludwigshafen, Germany
Topic: Analysis of semi-batch processes using multivariate statistical methods

09/05 - 04/06 **Diplom (Master) Thesis** at the Daniel Baugh Institute for functional genomics and computational biology, Thomas Jefferson University Philadelphia, PA, USA

Topic: Integration and analysis of Angiotensin II induced neuronal plasticity by means of multi-scale modeling

10/03 - 11/06 **Advanced study period**

Major: Biochemical Engineering

Student thesis: Systematic model reduction of signal transduction networks using observability analysis

10/01 - 09/03 **Basic study period** Grade of the Intermediate Diploma: good*

Additional qualifications

Since 10/07	University of Strathclyde scholarship for post-graduate studies
04/05 - 11/06	e-fellows scholarship
09/05 - 02/06	DAAD scholarship for preparing the master thesis in USA

Additional qualifications

Since 10/07	Teaching assistance: Fundamentals of Control Eng. I & II
10/03 - 11/06	Auxiliary researcher at the ISR in the field of systems biology Areas of research: Modeling and analysis of the EGF-signal transduction system Model reduction of reaction networks

Programming: Matlab/Simulink, Mathematica, C++, Java

Sport: Tae Kwon Do, jogging, ...

Languages: German (native)
English (fluent)
Spanish, French (basics)

Publications: "Parameter estimation in kinetic reaction models using nonlinear observers is facilitated by model extensions" Dirk Fey, Rolf Findeisen and Eric Bullinger. *In Int. Fed. of Automatic Control World Congress*, Seoul, 2008.

"Modeling neuronal adaptation in the brain: Integrating receptor signaling and electrophysiology" Rajanikanth Vadigepalli, Dirk Fey & James Schwaber. *Found. of Systems Biology in Eng*, Stuttgart, Germany, 2007.