

PERSONAL INFORMATION **Sebastian Rauner**

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WORK EXPERIENCE

- 01/04/2017–present **PhD student**
Potsdam Institute for Climate Impact Research (PIK), Member of the Leibniz Association, P.O. Box 60
12 03, D-614412 Potsdam (Germany)
Research Domain III - Sustainable Solutions
- 01/02/2015–31/03/2017 **Research scientist**
Helmholtz Centre for Environmental Research
Torgauerstr. 116, 04347 Leipzig (Germany)
Group of Renewable Energy
- 01/04/2016–01/11/2016 **Affiliate**
University of California, Berkeley and the Lawrence Berkeley National Laboratory
Electricity Markets and Policy Group
- 01/09/2014–31/12/2015 **Research Assistant**
Fraunhofer Institute for Solar Energy Systems
Heidenhofstr. 2, 79110 Freiburg (Germany)
Renewable Energy Innovation Policy department
- 01/03/2014–31/08/2014 **Master student, 1.3 (A)**
Fraunhofer Institute for Solar Energy Systems ISE
Heidenhofstr. 2, 79110 Freiburg (Germany)
Master thesis:
Analysis of explorative development paths for the German energy system -
Design of an unit commitment optimization model with a high share of renewable energy until 2050
Business or sector Research Institute
- 16/02/2013–15/08/2013 **Student employee**
Siemens AG
Huttenstraße 12, 10553 Berlin (Germany)
Business or sector Manufacturing
- 01/10/2012–15/02/2013 **Student employee**
GDF SUEZ Energie Deutschland
Friedrichstraße 200, 10117 Berlin (Germany)

Business or sector Energy supply

26/12/2011–30/09/2012 **Cooperate Student of Business Administration and Engineering**
EnBW Vertrieb GmbH
Charlottenstr. 47, 88212 Ravensburg (Germany)
Bachelor thesis: Development of a new model to measure energy efficiency of energy intensive companies

Business or sector Energy supply

15/12/2010–01/04/2011 **Cooperate Student of Business Administration and Engineering**
EnBW Energie Baden-Württemberg AG
Schiffbauerdamm 1, 10117 Berlin (Germany)
Analyse and classify amendment bills and political discussions in the Bundestag.
Help organizing lobbying and public affairs events

Business or sector Energy supply

01/07/2010–01/10/2010 **Cooperate Student of Business Administration and Engineering**
EnBW SIS GmbH
Durlacher Allee 87, 76131 Karlsruhe (Germany)
Introduce a new supplier management system in the purchase department

Business or sector Energy supply

01/12/2009–01/04/2010 **Cooperate Student of Business Administration and Engineering**
EnBW SIS GmbH
Durlacher Allee 87, 76131 Karlsruhe (Germany)
Practical Training
Basic hands-on training in mechanics and electronics

Business or sector Energy supply

EDUCATION AND TRAINING

01/09/2012–01/09/2014 **Master of Science in Business Administration and Engineering of Energy and Resources, GPA 1.5 (A-)**
Beuth University of Applied Sciences Berlin in cooperation with the Berlin School of Economics and Law, Berlin (Germany)

01/09/2013–28/02/2014 **Research semester at the Renewable Energy Institute of Taiwan** EQF level 7
National Taiwan University, Taipei (Taiwan)
Funded through a scholarship of the German Academic Exchange Service

01/09/2009–01/09/2012 **Bachelor of Engineering in Business Administration and Engineering, GPA 1.7 (A-)** ISCED 6
Cooperative State University Karlsruhe Baden-Württemberg, Karlsruhe (Germany)

Curriculum Vitae

Cooperative course in cooperation with the third largest energy supplier in Germany

01/10/2011–26/12/2011

Semester abroad

Shanghai University, Shanghai (Peoples Republic of China)

01/08/2011–30/09/2011

Scholarship of the National Science Council Taiwan

Taiwan Summer Institute, Tainan, National Cheng Kung University (Taiwan)

Develop a model for the future energy supply of Taiwan

01/07/2008–31/08/2009

Work and travel in Australia

01/09/2005–18/06/2008

Abitur, GPA 1.4 (A)

ISCED 5A

Technical-Gymnasium-Heilbronn, Heilbronn (Germany)

German, Mathematics, Mechanical Engineering

PERSONAL SKILLS

Mother tongue(s)

German

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C1	C1	C1	C1
French	A2	B1	B1	A2	B1
Chinese	A2	A2	A2	A1	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

Programming skills

Advanced optimization skills in GAMS

Advanced programming skills in Python and ArcGIS

Advanced statistical programming skills in R

Basic programming skills in html and java

Advanced modelling skills in Matlab

Publications

Jagruiti, T., **Sebastian, R.**, Naïm R, D. & Basab, C. Exploring the impact of increased solar deployment levels on residential electricity bills in India. *Renew. Energy* (2017). doi:10.1016/j.renene.2017.12.101

Rauner, S. & Budzinski, M. Holistic Energy system modeling combining multi-objective optimization and life cycle assessment. *Environ. Res. Lett.* (2017). doi:https://doi.org/10.1088/1361-6528/aa8b39.

Rauner S, Eichhorn M, Thrän D. The spatial dimension of the power system: Investigating hot spots of Smart Renewable Power Provision. *Applied Energy* 2016. https://dx.doi.org/10.1016/j.apenergy.2016.07.031.

Rauner, S. A GIS-supported multi-criteria energy system optimization approach with integrated sustainability assessment. 27th European Conference on Operational Research. 12.–15. July 2015. Glasgow. Scotland

Rauner, S. Scenario development and impact assessment of sustainable development paths for the extension and distribution of renewable energies in Germany, Helmholtz Research School on Energy Scenarios 1st Research Days. 07.-08. May 2015. Bad Liebenzell. Germany

