

# Dr. Christoph Schimeczek

Physicist

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## Professional Experience

- since 2017 **Scientist**, *Development of agent-based software to model European electricity markets; analysis of coupled markets, their actors and corresponding strategies; assessment of policy instrument's on markets and environment,*  
Institute of Engineering Thermodynamics, German Aerospace Center
- 2017 **Lecturer**, *Teaching 'Modelling of complex markets - Autonomous Vehicles',*  
SRH University Heidelberg
- 2014–2017 **Scientist**, *Development of programs and databases to estimate the potential of electric vehicles on European vehicle markets; processing and analysis of corresponding data; preparation of techno-economic scenarios for the coupled sectors energy and transport,*  
Institute of Vehicle Concepts, German Aerospace Center
- Software development contact**, *Mentoring staff concerning software development.*
- Windows administration**, *Workstations, Servers and Databases.*
- 2010–2014 **Scientist**, *Software development to calculate, depict and analyse spectra of atoms in extreme magnetic fields,*  
1. Institute of Theoretic Physics, University of Stuttgart
- Linux administration**, *Workstations and Servers.*
- Teaching**, *Training classes for experimental physics & mathematical methods, quantum mechanics.*

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## Studies

- 1/24/2014 **Doctorate**, University of Stuttgart.
- 3/2/2010 **Physics Diploma**, University of Stuttgart.
- 4/26/2006 **Intermediate Diploma**, University of Stuttgart.

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## Qualifications

- Methods **Scenario analysis — techno-economic assessment — data analysis — Monte-Carlo methods — numeric integration**
- Languages **German** (native), **English** (business fluent)

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## IT Skills

- Programming **Java, C/C++, MPI, PL/SQL, Fortran95, CUDA**
- Tools **MS Office, LibreOffice, OracleDB, SQLite, Gnuplot, Latex, SVN, Git**

Script **SQL, Python, PHP, Bash, Shell**  
OS **Windows, Linux**

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## Publications

- Mar. 2018 Schimeczek et al. **Bewertung politischer Maßnahmen im Energiesystem mittels Kopplung eines agentenbasierten und linear optimierenden Energiesystemmodells**, *EnInnov* <https://www.tugraz.at/events/eninnov2018/nachlese/>.
- Oct. 2016 Schimeczek et al. **Effectiveness of Monetary and Non-monetary Incentives on the Purchase of Plug-in Electric Vehicles Considering National and Regional Frameworks Within the European Union**, *AET* 2016.
- Sep. 2015 Schimeczek et al. **Enhanced model algorithm and model calibration**, *eMAP project deliverable 6.1*, <http://www.project-emap.eu>.
- Apr. 2015 **Electric Vehicle Decision Support Model**, *I-CVUE project deliverable*, <http://dsm.icvue.eu>
- Nov. 2013 **2D calculations for atoms and ions in strong magnetic fields of white dwarfs and neutron stars**, *Dissertation*.
- 2012–2014 6 journal articles at *PRA, CPC, ApJS*.
- Feb. 2010 **Startwellenfunktionen für Hartree-Fock-Roothaan-Rechnungen für Mehrelektronenatome in Neutronensternmagnetfeldern**, *Diplomarbeit*.

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## Talks

- Graz 2018 **Bewertung politischer Maßnahmen im Energiesystem mittels Kopplung eines agentenbasierten und linear optimierenden Energiesystemmodells**.
- Barcelona 2016 **Effectiveness of Monetary and Non-monetary Incentives on the Purchase of Plug-in Electric Vehicles Considering National and Regional Frameworks Within the European Union**.