

Florian Kreuchauff – Curriculum Vitae, February 2016

Born March 26th 1982 in Offenbach, Germany

Commission of Experts
for Research and Innovation (EFI)

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Appointments

03/2015 – today Political consultant for the Commission of Experts for Research and Innovation (EFI), reporting to the German federal government, and Post-doctoral fellow at the Chair in Economic Policy, Institute for Economics, ECON (former Institute of Economic Policy Research, IWW), KIT.

- Combining the interdisciplinary discourse with regard to innovation research of economics, natural sciences and the engineering perspective.
- Giving scientific policy advice by means of:
 - Presentation and analysis of structures, trends, performances and perspectives of the German research and innovation system in a temporal and international comparison.
 - Assessment of high priority questions of the German research and innovation system and development of action recommendations.
- Heading the financial controlling and accounting at the commission's offices and accounting for the public procurement of external research assignments.
- Areas of research: Identifying and assessing emerging technologies.

09/2010 – 03/2015 Doctoral student at the Chair in Economic Policy, Institute for Economics, ECON, KIT.

- Areas of research: Economic implications of emerging technologies, such as nanotechnologies and service robotics.
- Teaching exercises accompanying the annual lectures *Theory and Policy of Innovation* and *Spatial Economics*, seminars and colloquia. Supervising bachelor, master, and diploma theses on behalf of Prof. Dr. Ingrid Ott (see **Teaching**), coordinating the modular course system and crediting of exchange student's economics courses taken abroad and during former studies.
- Planning, coordinating and executing written examinations for the Chair in Economic Policy and the Chair in International Economic Policy.
- IT representative, member of *(K)IT Expertenkreis*.
- Doctoral thesis:
“Fraktale Doppel-Boom-Zyklen und Querschnittstechnologien: Theorie, Empirie und Politikimplikationen am Beispiel der Nanotechnologie”, supervised by Prof. Dr. Ingrid Ott and Jun.-Prof. Dr. Marten Hillebrand.

herein:

09/2014 – 03/2015 Assistant to Prof. Dr. Ingrid Ott as member of the Commission of Experts for Research and Innovation (EFI), see above.

03/2009 – Research Assistant at the Institute of Applied Business Administration and
09/2009 Corporate Management, IBU, KIT.

- Project “*Women in Leadership Positions*” for the Federal Ministry of Labor and Social Affairs (BMAS).
- Research covering corporate governance and its impact on the success of mergers & acquisitions.

Education

10/2010 – Baden-Württemberg-certificate for university didactics (*Hochschuldidaktik*, 200
04/2014 teaching sessions).

10/2010 – Various law courses: Legislation on Contracting, Tax Law, Internet Law, and
09/2013 Copyright Law (each 16 weeks, 2 SWS, 15 ECTS Credits in total)

10/2010 – Course: Advanced Econometrics for PhD Students at the Mannheim Graduate
12/2019 School, University of Mannheim (10 weeks, 5 SWS, 8 ECTS Credits).

10/2002 – Studies of “*Industrial Engineering and Management*” at the Karlsruhe Institute
12/2008 of Technology (KIT).

Diploma thesis:

“*The Impact of Executive Board Remuneration on Capital Structure Decisions*”,
at the Institute of Applied Business Administration and Corporate Management
(IBU), supervised by Prof. Dr. Hagen Lindstädt and Dr. Michael Wolff.

Specialization during studies in (inter alia):

- *Applied Economic Theory (Economic Assessment – Impact Analyses of Structural Policies, Market Structures & Industrial Organization, Modern Payment Systems, Innovation and Technical Change)*
- *Finance and Accounting (Cost and Activity Accounting, Investment Theory and Financial Statements, German Commercial Code and Fiscal Law, Financing)*
- *Corporate Management (Corporate Governance and Strategic Management, Organizational Management, Organizational Theory)*
- *Operations Research in Marketing and Business Management*
- *Software and Virtual Engineering and Programming (mainly in Java)*

Experiences outside university include:

03/2009 – Internship at Mechaless Systems GmbH, Karlsruhe. Assistance in the areas of
09/2009 financial controlling and project management.

09/2004 – Internship at Mechaless Systems GmbH, Karlsruhe. Assistance to the IT-
04/2005 Administration in the areas of network planning, as well as system and application support.

Research

Publications

- 2016 “Förderprogramme des Bundes seit 2010 mit Bezug zur Robotik” with David Bälz, Studien zum deutschen Innovationssystem 15-2016, Berlin: EFI.
- 2015 “Fraktale Doppel-Boom-Zyklen und Querschnittstechnologien: Theorie, Empirie und Politikimplikationen am Beispiel der Nanotechnologie”, Dissertation, KIT, Karlsruhe.
<http://digbib.ubka.uni-karlsruhe.de/volltexte/1000049157>
- “A Patent Search Strategy based on Machine Learning for the Emerging Field of Service Robotics” with Vladimir Korzinov, Working Paper 71, KIT Working Paper Series in Economics:
http://econpapers.wiwi.kit.edu/downloads/KITe_WP_71.pdf.
- 2013 “Nanotechnology as General Purpose Technology” with Nina Teichert, in J. Gorraiz, E. Schiebel, C. Gumpenberger, M. Hörlesberger und H. Moed (Ed.), Proceedings of the 14th International Society of Scientometrics and Informetrics (ISSI) conference, volume II, AIT Austrian Institute of Technology, Facultas Verlags- und Buchhandels AG, Vienna, p. 1291 – 1306.
- see as well:
“Nanotechnology as General Purpose Technology” with Nina Teichert, Working Paper 53, KIT Working Paper Series in Economics:
http://econpapers.wiwi.kit.edu/downloads/KITe_WP_53.pdf.
- 2009 “Corporate Governance and Acquisitions - Evidence from Germany”, internal Discussion Paper at the Institute of Applied Business Administration and Corporate Management (IBU), KIT.

Research Projects

- 08/2012 – “Service Robotics” for the KIT focus “Mensch und Technik” (MuT), headed by
03/2015 the Institute for Technology Assessment and Systems Analysis (ITAS).
- 03/2009 – “Women in Leadership Positions” for the Federal Ministry of Labor and Social
09/2009 Affairs (BMAS). Accounting for the data of more than 300 German Prime Standard corporations and their respective executive and supervisory board structure over a 10 year period.

Organized Workshops

- 10/2015 10th International Regional Innovation Policies Conference (RIP 2015) at the Karlsruhe Institute of Technology (KIT), together with the Fraunhofer Institute for Systems and Innovation Research (ISI), Karlsruhe, and the Bureau d’Economie Théorique et Appliquée (BETA) at the Université de Strasbourg.
- 03/2012 3rd Semi-annual PhD Workshop between the University of Strasbourg / BETA and the Chair in Economic Policy at KIT. The workshop was supported by Karlsruhe House of Young Scientists (KHYS), the focus “Mensch und Technik” (MuT) at KIT as well as the German-French Initiative (DeFI) at KIT.
- 07/2011 International “Workshop on Nanotechnologies - Economic and Societal Perspectives”, Hector-School, Karlsruhe. Organized by the Chair in Economic Policy at KIT in cooperation with Université de Caen - Basse-Normandie and supported financially by VolkswagenStiftung.

02/2011 1st Semi-annual PhD Workshop between the University of Strasbourg / BETA and the Chair in Economic Policy at KIT on the topic of “*Innovation, Knowledge-based Economies, and Regional Development*”. The workshop was supported by Karlsruhe House of Young Scientists (KHYS) and the focus “Mensch und Technik” (MuT) at KIT.

Presentations

11/2015 “*A Patent Search Strategy based on Machine Learning for the Emerging Field of Service Robotics*“ at the IP Statistics for Decision Makers (IPSDM) conference 2015, Hotel Savoyen Vienna, Austria.

10/2015 “*Spatial Proximity to Research Institutions and Firm Level Innovation in Germany*“ at the 10th International Regional Innovation Policies (RIP) conference 2015, KIT Karlsruhe, Germany.

04/2015 “*Revealing the Hidden Structure of Knowledge Development in Robotics and its Influence on Employment Structures*“ at the 12th Augustin Cournot Doctoral Days (ACDD), Université de Strasbourg, Strasbourg, France.

01/2015 “*A Patent Search Strategy based on Machine Learning for the Emerging Field of Service Robotics*“ at the 15th Eurasia Business and Economics Society (EBES) conference, ISCTE-IUL Instituto Universitário de Lisboa, Lisbon, Portugal.

09/2014 “*Service Robotics – Uncovering an Emerging Technology Field*” at the 6th Annual Meeting of the Society for the Study of Nanoscience and Emerging Technologies (S.NET): Better Technologies With No Regret?, Institute for Technology Assessment and Systems Analyses (ITAS), KIT Karlsruhe, Germany.

07/2014 “*Fractal Double-Boom-Cycles and General Purpose Technologies*” at the weekly PhD Symposium of the Department of Economics and Management, KIT Karlsruhe, Germany.

09/2013 “*Science Push and Demand Pull in General Purpose Technologies – Revisiting the Helpman and Trajtenberg (1998) Model*” at K2, Kiel Institute for the World Economy (IfW), Kiel, Germany.

07/2013 “*Nanotechnology as General Purpose Technology*” at the 14th International Society of Scientometrics and Informetrics Conference (ISSI), Vienna, Austria.

04/2013 invited “*Innovation by Entrants and Incumbents in the Context of General Purpose Technologies - Revisiting Helpman and Trajtenberg (1998)*” at the Spring Meeting of Young Economists (SMYE), Aarhus Universitet, Aarhus, Denmark.

12/2012 “*Revisiting the Schumpeterian GPT model – Allowing Innovation by Entrants and Incumbents*”, Research Colloquium at the Chair in Economic Policy, Karlsruhe, Germany.

03/2012 “*Nanotechnology as General Purpose Technology*” at the 3rd Annual KIT PhD Symposium, Karlsruhe, Germany.

03/2012 “*Nanotechnology as GPT - An Empirical Analysis Based on Patents and Publications*” at the semi-annual PhD Workshop between the University of Strasbourg / BETA and the Chair in Economic Policy at KIT, Karlsruhe, Germany.

- 10/2011 “*Nanotechnology as GPT - An Empirical Analysis Based on Patents and Publications*”, Research Colloquium at the Chair in Economic Policy, Karlsruhe, Germany.
- 02/2011 “*Nanotechnology: Am Emerging GPT? Evidence from Germany*” at the annual Winter Seminar of the Institute of Economic Policy Research, Trins, Austria.

Teaching

Master Course Exercises

- 10/2014 – 02/2015 *Spatial Economics*, exercises accompanying the annual lecture by Prof. Dr. Ingrid Ott for study programmes Business Engineering and Economics Engineering at KIT.
- 04/2014 – 07/2014 *Theory and Policy of Innovation*, exercises accompanying the annual lecture by Prof. Dr. Ingrid Ott for study programmes Business Engineering and Economics Engineering at KIT.
- 04/2013 – 07/2013 *Theory and Policy of Innovation*, exercises accompanying the annual lecture by Prof. Dr. Ingrid Ott for study programmes Business Engineering and Economics Engineering at KIT.
- 10/2012 – 02/2013 *Spatial Economics*, exercises accompanying the annual lecture by Prof. Dr. Ingrid Ott for study programmes Business Engineering and Economics Engineering at KIT.
- 04/2012 – 07/2012 *Theory and Policy of Innovation*, exercises accompanying the annual lecture by Prof. Dr. Ingrid Ott for study programmes Business Engineering and Economics Engineering at KIT.
- 07/2012 *Introduction to Economic Policy*, exercises accompanying the annual lecture by Prof. Dr. Ingrid Ott for study programmes Business Engineering and Economics Engineering at KIT, as substitute for Tim Deeken.
- 10/2011 – 02/2012 *Spatial Economics*, exercises accompanying the annual lecture by Prof. Dr. Ingrid Ott for study programmes Business Engineering and Economics Engineering at KIT.
- 04/2011 – 07/2011 *Theory and Policy of Innovation*, exercises accompanying the annual lecture by Prof. Dr. Ingrid Ott for study programmes Business Engineering and Economics Engineering at KIT.

Bachelor Course Exercises

- 10/2010 – 02/2011 *Introduction to Economics for Non-economists*, exercises accompanying the lecture by Prof. Dr. Ingrid Ott for study programmes outside Economics and Business Management.

Seminars and Colloquia

- 07/2014 – 10/2014 Seminar *ICT, Big Data, and Industry 4.0 - Wolfram Mathematica*, with Prof. Dr. Ingrid Ott and Vladimir Korzinov at KIT.

- 04/2014 – Colloquia Diploma / Master / Bachelor with Prof. Dr. Ingrid Ott, Vladimir
07/2014 Korzinov and Tim Deeken at KIT.
- 04/2013 – Colloquia Diploma / Master / Bachelor with Prof. Dr. Ingrid Ott, Andrea Ham-
07/2013 mer and Tim Deeken at KIT.
- 10/2012 – Colloquia Diploma / Master / Bachelor with Prof. Dr. Ingrid Ott, Andrea Ham-
02/2013 mer and Tim Deeken at KIT.
- 10/2012 – Seminar *Quantitative Methods in Economics - Wolfram Mathematica*, with Prof.
02/2013 Dr. Ingrid Ott and Tim Deeken at KIT.
- 04/2012 – Colloquia Diploma / Master / Bachelor with Prof. Dr. Ingrid Ott, Andrea Ham-
07/2012 mer and Tim Deeken at KIT.
- 04/2012 – Seminar *Quantitative Methods in Economics - Wolfram Mathematica*, with Prof.
07/2012 Dr. Ingrid Ott and Tim Deeken at KIT.
- 10/2011 – Colloquia Diploma / Master / Bachelor with Prof. Dr. Ingrid Ott, Torben Züls-
02/2012 dorf and Tim Deeken at KIT.
- 10/2011 – Seminar *Assessment of Technology and Strategic Patent Analysis*, with Dr.
02/2012 Chung Anh Tran and Nina Teichert at KIT.
- 04/2011 – Colloquia Diploma / Master / Bachelor with Prof. Dr. Ingrid Ott, Torben Züls-
07/2011 dorf and Tim Deeken at KIT.

Theses Supervised

- 06/2014 – Bachelor Thesis “*Uncovering Service Robots as an Emerging Field of Technolo-*
01/2015 *gy*” by Benedikt Hauger
- 02/2014 – Master Thesis “*General Purpose Technologies, Productivity Slowdowns, and Ob-*
01/2015 *solescence*” by Jan Reichert
- 02/2014 – Bachelor Thesis “*Economic Analyses of Innovation Networks on the Example of*
05/2014 *Nanotechnology*” by Christin Geyer
- 11/2013 – Bachelor Thesis “*Knowledge as Building Block for Clusters in Nanotechnology*”
01/2014 by Nico Lehmann
- 06/2013 – Bachelor Thesis “*Measuring Innovational Complementarities with Patent Data*”
09/2013 by Immanuel Ketterer
- 05/2013 – Master Thesis “*General Purpose Innovation and Growth – Simulations of Ex-*
11/2013 *tended 2nd Generation Models*” by Malte Staehr
- 01/2013 – Bachelor Thesis “*Analyses of Economic und Transport Policy Measures Promot-*
05/2013 *ing Electro-Mobility in Germany*” by Marian Patrick Stoll
- 08/2012 – Diploma Thesis “*Economic Implications of Classifying GPTs by Generic Func-*
03/2013 *tions*” by Thomas Vollmer

- 04/2012 – Bachelor Thesis “*On the Distinction of Application and Fundamental Sectors – An Empirical Analysis Based on Patent Data*” by Jannik Schühle
07/2012
- 04/2012 – Bachelor Thesis “*Modelling Economic Growth with General Purpose Technologies: Evaluation of a 3-Sector-Model*” by Lasse Dörr
07/2012
- 10/2011 – Diploma Thesis “*General Purpose Technologies and Economic Growth - A Patent Analysis of Nanotechnology’s Current State of Development in Germany*”
03/2012 by Alexander Kupper
- 11/2011 – Diploma Thesis “*Networks of Innovators as Engine of Growth for General Purpose Technologies? A Social Network Analysis*” by Alexander Mercy
05/2012
- 10/2011 – Diploma Thesis “*Market Projections and Competition Analysis in the Automotive Aftermarket*” by Sebastian Seitz
04/2012
- 10/2011 – Bachelor Thesis “*The Feasibility of Modelling GPTs within Innovation Assessment Simulations - A Critical Look at the Evaluation Models of the EU-Commission*” by Natascha Kutschenko
01/2012
- 08/2011 – Bachelor Thesis “*Nanotechnology as General Purpose Technology - A Patent Analysis*” by Esther Herzog
11/2011
- 06/2011 – Diploma Thesis “*Nanotechnology - a General Purpose Technology? An Analysis of Publications*” by Julius Parrisius
12/2011
- 05/2011 – Diploma Thesis “*General Purpose Technologies and Economic Growth - Open Modelling Issues*” by Christian Nuss
09/2011
- 05/2011 – Bachelor Thesis “*Nanotechnology from an Economic Perspective: Status Quo and further Research*” by Rachelle Bilfinger
09/2011
- 04/2011 – Bachelor Thesis “*Regional Economic Effects of the 1972 Olympic Games in Munich - a Projection for 2018*” by Veronika Feldhütter
07/2011
- 02/2011 – Diploma Thesis “*Co-location of Project Teams in the Pharmaceutical Development: How to Maintain Expert Knowledge Transfer while Integrating Experts into Teams*” by Christian Alexander Huber
08/2011
- 11/2010 – Bachelor Thesis “*Patent Statistics On Nanotechnologies - Empirical Analyses regarding Baden-Württemberg and Thuringia*” by Stefan Seebacher
02/2011

Skills

Language Skills

German (native)
English (excellent command)
French (basic communication skills)
Latin (qualification in Latin)

Computer Skills

Mathematica (Functional, Procedural, Rule-Based)
SQL (Relational Database Management)
L^AT_EX, MS Office, Open Office
SPSS, Eviews, Stata (Econometrics)
Java (Server-Client, Applets, Object Oriented)
CATIA, Unigraphics (CAD)
Bibexcel, Pajek (Bibliometrics, Social Network Analysis)
AlphaOffice (CRM)
Agresso (Financial Controlling and Accounting)

Honorary Office and Social Commitments

Admission committee work

- 01/2014 KIT Selection committee for study programmes Master of Science in Business Engineering and Master of Science in Economics Engineering.
- 07/2013 KIT Selection committee for study programmes Master of Science in Business Engineering and Master of Science in Economics Engineering.
- 04/2013 Member of the review board for professorship applicants for the Chair in European Economic Policy at the KIT Department of Economics and Management.
- 12/2012 Reviewer for “*Schmollers Jahrbuch*” (Journal of Applied Social Science Studies)
- 07/2012 KIT Selection committee for study programmes Master of Science in Business Engineering and Master of Science in Economics Engineering.
- 12/2011 ERASMUS selection committee for studies at Universities in Belgium, Poland, Romania, Turkey, Italy, and Portugal.
- 12/2011 Invited jury member for TIMES - Tournament In Management and Engineering Skills - local qualification case study in cooperation with ESTIEM and Altran GmbH & Co. KG.

Memberships

- 02/2014 – European Economic Association (EEA)
today

Social Commitments

- 01/2013 – Amnesty International, e-activist
today
- 03/2010 Willing Workers on Organic Farms (wwoof), New Zealand
- 03/2009 – Arbeitskreis Leben Karlsruhe eV., Teaching of accounting principles and fiscal
09/2010 law requirements for non-profit organizations.
- 03/2009 – Naturschutzbund Karlsruhe (NABU-KA), leading of youth groups.
10/2009