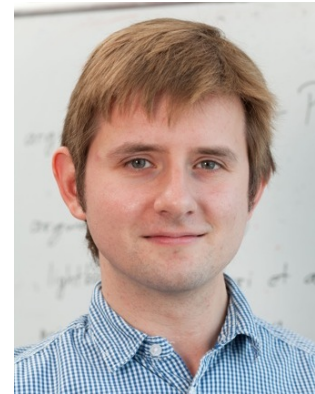


CURRICULUM VITAE OF PROF. KARSTEN BORGWARDT

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EMPLOYMENT & EDUCATION HISTORY

2017 – now **Full Professor of Data Mining**



Department Biosystems
ETH Zürich

2014 – 2017 **Associate Professor of Data Mining**



Department Biosystems
ETH Zürich

2011 - 2014 **Associate Professor (W2) of Data Mining in the Life Sciences**



Department of Computer Science
Eberhard Karls Universität Tübingen

2008 - 2014 **W2 Research Group Leader (Assistant Professor, tenured since 2010)**



Machine Learning and Computational Biology Research Group
Max Planck Institutes Tübingen, Directors D. Weigel and B. Schölkopf

2007 - 2008 **Postdoctoral Research Associate**



Machine Learning Group, Chairholder: Prof. Zoubin Ghahramani
University of Cambridge

2005 - 2007 **PhD Student & Research Assistant**



Data Mining & Database Unit, Chairholder: Prof. Hans-Peter Kriegel
Ludwig-Maximilians-Universität München

2004



Academic Visitor (for writing master thesis in Computer Science)
Machine Learning Group, Prof. Alex Smola, Prof. SVN Vishwanathan
NICTA Canberra, Australia

2002 -2003 **Student of Biology (M.Sc. in 2003)**



Department of Zoology
University of Oxford

1999 - 2004 **Student of Computer Science (Diplom in 2004)**






Department of Mathematics, Computer Science & Statistics
Ludwig-Maximilians-Universität München
(on leave for studying in Oxford during academic year 2002/03)

AWARDS & HONORS

- 2016 One of the "**Top 40 under 40 in Science and Society**" in Germany according to Business Journal *Capital*
- 2015 **Starting Grant** Awardee (ERC backup scheme of the Swiss National Science Foundation, 1.42 million CHF, 5 years, started May 1st, 2015)
- 2015 **Elected Chairman of the Steering Committee** of the Annual Meeting for *Machine Learning in Systems Biology* (MLSB), 2015-2017
- 2015 One of the "**Top 40 under 40 in State & Society**" from Germany (including 12 scientists) according to Business Journal *Capital*
- 2014 One of the "**Top 40 under 40 in Science**" from Germany according to Business Journal *Capital*
- 2013 **Alfried-Krupp-Förderpreis für junge Hochschullehrer** (Annual Krupp award of 1 million EUR for one professor in Germany of age less than 38)
- 2012 **Scientific Coordinator of a Marie Curie Initial Training Network** on *Machine Learning in Personalized Medicine* (2013-2016, 8 countries, 12 labs, 14 PhD students)
- 2009 **NIPS Outstanding Student Paper Award** as Supervisor and Co-Author of PhD student & awardee Nino Shervashidze (*out of 1105 submissions*)
- 2007 **Heinz-Schwärtzel-Dissertation-Award** for Foundations of Computer Science (*Best PhD thesis award in Computer Science at TUM, LMU and UniBw München*)
- 2007 Scholar of the **German Academic Merit Foundation (Studienstiftung des deutschen Volkes)** as PhD student
- 2002 Scholar of the **German Academic Merit Foundation (Studienstiftung des deutschen Volkes)** as undergraduate student
- 1999 Scholar of the **Bavarian Foundation for the Gifted** (BayBFG) (*250 students out of 30,000 students per year in Bavaria*)
- 1999 Scholar of the **Stiftung Maximilianeum** in Munich (*5-10 students out of 30,000 students per year in Bavaria*)

ACADEMIC DEGREES

- 2007  **Ph.D. in Computer Science (obtained on July 5, 2007), *summa cum laude***
Data Mining & Database Unit, Chairholder: Prof. Hans-Peter Kriegel
Ludwig-Maximilians-Universität München
- 2004  **Diplom (M.Sc. equivalent) in Computer Science**
Department of Mathematics, Computer Science & Statistics
Ludwig-Maximilians-Universität München
- 2003  **M.Sc. in Biology**
Department of Zoology
University of Oxford

THIRD-PARTY FUNDING AND INDUSTRIAL EXPERIENCE

- 2015 Partner node in **Horizon2020 research network** on MRI classification (own budget: 520.000 CHF, 4 years)
- 2014 **Starting Grant** for *Significant Pattern Mining* (ERC backup scheme of the Swiss National Science Foundation, 1.42 million CHF, 5 years)
- 2013 **Alfried Krupp Award** for Young Professors (1 million EUR, 5 years)
- 2013 Scientific Coordinator of a **Marie Curie Initial Training Network** (in total: 14 PhD students at 12 labs in 8 countries, network budget: 3.75 million EUR, own budget: 0.75 million EUR, 4 years)
- 2012 Co-founder & scientific mentor of the Tübingen-based **bioinformatics service company Computomics** (computomics.com); supported by the High-Tech Venture Capital Funds of the German Federal Government since 2015.
- 2010 **Research grant from DFG** for *Kernels on Large, Labeled Graphs* (German Research Council, 3 years approx. 240.000 EUR)

MAJOR PROFESSIONAL SERVICES

Scientific Coordinator

- Elected Chairman of the Steering Committee of the Annual Meeting for *Machine Learning in Systems Biology* (MLSB, 2015-2017)
- Scientific Coordinator of the Marie Curie Initial Training Network on *Machine Learning for Personalized Medicine* (2013-2016, 12 labs with 14 PhD students)

Board Member or Expert Reviewer

- Scientific Advisory Board Member of Tübingen's Quantitative Biology Center QBIC (with Sarah Teichman, Gene Myers and Christan von Mering, 2015-)
- Steering Board Member of the Swiss Data Science Center (2015-)
- Steering Board Member of the ETH Nexus Personalized Medicine Platform (2014-)
- Steering Board Member of the Genomics Facility Basel (2014-)
- Expert Reviewer for the Swiss National Ethics Committee on "Machine Learning for the Analysis of Biobanks" (2014)

Editor

- Journal of Machine Learning Research (Action Editor, since 2013)
- Springer's Machine Learning Journal (Action Editor since 2015, Editorial Board Member since 2011)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (Associate Editor for maximum period of 4 years: 2012-2016)

Programme Chair

- Machine Learning for Personalized Medicine Conference 2016 (Barcelona, May 19/20)
- Machine Learning for Personalized Medicine Summer School 2013 (65 participants)
- Machine Learning for Systems Biology 2012 (Workshop with 150 participants)
- Machine Learning Summer School 2011, Purdue (co-organizer, 200 participants)
- NIPS Workshop: Personalized Medicine Workshop 2011 (Workshop with 50 participants)
- Mining and Learning on Graphs 2009 (Workshop with 100 participants)
- NIPS Workshop: Transfer Learning on Structured Data 2009 (50 participants)
- NIPS Workshop: Structured Input Structured Output 2008 (Workshop with 50 participants)

Area Chair

- ICML 2013, NIPS 2013, 2014, AISTATS 2015, KDD 2016, ECML 2016, ICML 2017, NIPS 2017

Plus reviewer for numerous leading journals, conferences, funding agencies and faculty recruiting committees in Machine Learning, Data Mining, Applied Mathematics, Bioinformatics and Genetics