

# Curriculum Vitae, Bernhard Schölkopf

February 2020

## Personal

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Born February 20, 1968, Stuttgart, Germany;

married to the Spanish illustrator Ana Martín Larrañaga, three children

## Professional

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since 2011 Director at the Max Planck Institute for Intelligent Systems

since 2017 Amazon Distinguished Scholar

since 2019 Affiliated Professor, ETH Zürich

2001 – 2010 Director at the Max Planck Institute for Biological Cybernetics

2000 – 2001 Group leader at the biotech startup Biowulf Technologies, New York

1999 – 2000 Researcher at Microsoft Research Ltd., Cambridge

1997 – 1999 Researcher at GMD (German National Research Center for Computer Science), Berlin

## Education

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1997 PhD in Computer Science (TU Berlin) — *summa cum laude*

1994 Diplom in Physics, University of Tübingen (Germany) — *Grade: 1*

1992 M. Sc. in Mathematics, University of London — *with distinction*

1988 – 1994 Studies of Physics, Mathematics and Philosophy in Tübingen and London

## Awards and Memberships

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2020 BBVA Frontiers of Knowledge Award (with Isabelle Guyon and Vladimir Vapnik)

2019 Körber European Science Prize

2019 Member, Heidelberg Academy of Sciences and Humanities

2019 Fellow, Canadian Institute for Advanced Research (CIFAR)

2019 Hector Science Award

2018 Gottfried Wilhelm Leibniz Prize

2018 State Research Award, Baden-Württemberg

2018 Causality in Statistics Education Award, American Statistical Association (with Dominik Janzing & Jonas Peters), for our monograph “Elements of Causal Inference”

- 2017 Fellow, Association for Computing Machinery (ACM)
- 2016 Member, Leopoldina (German National Academy of Sciences)
- 2015 Overseas Visiting Scholar, St John's College, Cambridge (Easter Term)
- 2014 Royal Society Milner Award, London
- 2013 XXVIIIth Courant Lectures, New York University
- 2012 Academy Prize, Berlin-Brandenburg Academy of Sciences and Humanities
- 2011 Max Planck Research Award of the Alexander-von-Humboldt-Stiftung (with Sebastian Thrun)
- 2011 Posner Lecture, Neural Information Processing Systems Conference
- 2011 Annual Brain Computer Interfacing Research Award (with Moritz Grosse-Wentrup)
- 2010 Inclusion in the list of ISI Highly Cited Researchers (Category: Engineering)
- 2006 J. K. Aggarwal Prize of the International Association for Pattern Recognition (IAPR)
- 2001 Scientific member of the Max Planck Society
- 1998 Prize for the best scientific project of GMD (German National Research Center for Computer Science)
- 1998 Annual dissertation prize of the German Society for Computer Science (GI)
- 1992 Lionel Cooper Memorial Prize of the University of London
- 1992 – 1997 Studienstiftung des deutschen Volkes
- 1987 Abitur, Eduard-Spranger-Gymnasium, top of the year, Prize for Mathematics and Sciences

Board member of the Neural Information Processing Systems Foundation and of the International Machine Learning Society. Until 2019, Advisory Committee chair of the *Neural Computation and Adaptive Perception* program (funded by the Canadian Institute for Advanced Research; this was instrumental in creating the current field of “deep learning”).

Members of his lab have won awards at most major conferences in the field (COLT 2003, NIPS 2004, COLT 2005, COLT 2006, ICML 2006, ALT 2007, DAGM 2008, CVPR 2008, ISMB 2008, NIPS 2008, NIPS 2009, UAI 2010, IROS 2012, NIPS 2013, IROS 2014, ECML 2016, ICML 2017, ICML 2019)

## Academic Service

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Journal of Machine Learning Research — *co-founding action editor, later member of the advisory board, now co-editor-in-chief; this has become the flagship journal of machine learning*

Journal of Artificial Intelligence Research (2003 – 2006)

IEEE Transactions on Pattern Analysis and Machine Intelligence (2005 – 2009), International Journal of Computer Vision (2004 – 2010) — *the two flagship journals of computer vision*

Information Science and Statistics — *a monograph series published by Springer*

Machine Learning Journal (until 2002)

Foundations and Trends in Machine Learning

SIAM Journal on Imaging Sciences (2007 – 2012)

ACM Books

Co-founder of an ongoing series of summer schools on Machine Learning ([www.mlss.cc](http://www.mlss.cc))

Program (co-)chair of COLT'03, DAGM'04, NIPS'05; general chair of NIPS'06

### Invited Presentations at Conferences (Selection)

American Association for Artificial Intelligence, *Madison, Wisconsin, USA (1998)*, Meeting of the Bernoulli Society, *Tokio (2000)*, Conf. of the American and Hong Kong Mathematical Societies, *Hong Kong (2000)*, Interface, *Orange County (2001)*, Neural Information Processing Systems, *Vancouver (2001)*, European Conf. on Machine Learning & European Conf. on Principles and Practice of Knowledge Discovery in Databases, *Helsinki (2002)*, International Conf. on Artificial Neural Networks, *Madrid (2002)*, International Statistical Institute, *Berlin (2003)*, Effective Computational Geometry, *ENS, Paris (2004)*, Mathematics and Image Analysis, *Paris (2004)*, International School “Eduardo R. Caianiello,” *Erice (2005)*, International Conf. on Pattern Recognition, *Hong Kong (2006)*, International Conf. on Machine Learning, *Corvallis, OR (2007)*, International Conf. on Artificial Neural Networks, *Porto (2007)*, Annual Conf. of the German Classification Society, *Hamburg (2008)*, European Signal Processing Conf., *Lausanne (2008)*, Methods for Mining Massive Data, *Copenhagen (2009)* Techkriti, *IIT Kanpur (2010)*, SANUM, *Stellenbosch (2010)* IPMU, *Dortmund (2010)*, Information Hiding Conference, *Prague (2011)*, Pattern Recognition in Neuroimaging, *London (2012)*, Maximum Entropy Conference, *Munich (2012)*, International Conference on Data Mining, *Brussels (2012)*, Regularization, Optimization and Kernels, *Leuven (2013)*, Mathematical and Statistical Aspects of Molecular Biology, *Sheffield (2014)*, Symposium on Hyperspectral Imaging in Research and Engineering, *Sheffield (2014)*, Annual Meeting of the Max Planck Earth System Research Partnership, *Weimar (2014)*, International Symposium on Statistical Learning and Data Sciences, *London (2015)*, Drawing Causal Inference from Big Data, National Academy of Sciences, *Washington, D.C. (2015)*, IFAC SYSID, *Beijing (2015)*, ARES, *Salzburg (2016)*, Machine Learning for Signal Processing (MLSP), *Vietri sul Mare (2016)*, Conditional Independence Structures and Extremes, *Munich (2016)*, International Conference on Machine Learning (ICML), *Sydney (2017)*, Asian Conference on Machine Learning (ACML), *Seoul (2017)*, SIAM International Conference on Data Mining (SDM), *San Diego (2018)*, International Conference on Learning Representations (ICLR), *Vancouver (2018)*, Falling Walls Conference, *Berlin (2018)*, United Nations Workshop of Militarization of AI, *New York City (2019)*, Global Forum on AI, *Paris (2019)*

### Invited Presentations at Universities and Research Institutes (Selection)

AT&T (*New Jersey*), MIT (*Cambridge, USA*), RIKEN (*Tokyo*), DENKEN (*Tokyo*), EPFL (*Lausanne, Switzerland*), MPI for Computer Science (*Saarbrücken*), MPI for Mathematics in the Sciences (*Leipzig*), MPI for Biochemistry (*Martinsried*), Daimler Benz Research (*Ulm*), Siemens R&D (*Neuperlach*), Australian National University (*Canberra*), University of Sydney (*Australia*), Royal Holloway University of London, Microsoft Research Redmond (*USA*) & Beijing (*China*), National University of Singapore, Oxford University, Ecole Polytechnique, Université Jussieu, Université Orsay, Ecole Centrale (*Paris*), KU Leuven, ETH (*Zürich*), German Cancer Research Institute (*Heidelberg*), TU Karlsruhe, Universität Göttingen, Cornell University (*Ithaca, NY*), National Taiwan University (*Taipeh*), Pao-Lu Hsu Lecture (*Beijing*), Helmholtz Lecture, Humboldt-Universität (*Berlin*), Google Research (*New York*), IST Austria (*Vienna*), Royal Society (*London*), Babbage Seminar, University of Cambridge (*UK*), Google DeepMind (*London*), Microsoft Distinguished Research Lecture (*Cambridge, UK*), Annual Oxford-Warwick Lectures in Statistics (*Oxford*), Annual IST Austria & ÖAW Lecture (*Vienna*)