
Curriculum Vitae - Max Welling

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Amsterdam, 1098 XH Netherlands

December 26, 2015

Education

1987-1993 Utrecht University Utrecht, Netherlands
BA physics Supervisor: Prof. G. 't Hooft
Thesis: Asymptotically Flat Universes have Positive Total Energy.
Date received: Aug.30 1993

1993-1998 Utrecht University Utrecht, Netherlands
PhD physics Supervisor: Prof. G. 't Hooft
Thesis: Gravity in 2+1 Dimensions.
Date received: Jan.19 1998

Employment

1998-2000 Caltech, Pasadena, USA
Computational Vision Lab
Postdoctoral Fellow
Supervisor: Prof. P. Perona

2000-2001 University College London, UK
Gatsby Computational Neuroscience Unit
Postdoctoral Fellow
Supervisor: Prof. G.E. Hinton

2001-2003 University of Toronto, Canada
Department of Computer Science
Postdoctoral Fellow
Supervisor: Prof. G.E. Hinton

Oct.03- Jun.06 UC Irvine, USA
School of Information and Computer Science
Assistant Professor

2006-2012 UC Irvine, USA
School of Information and Computer Science
Associate Director Center for Machine Learning and Intelligent Systems

July 06 UC Irvine, USA
School of Information and Computer Science
Associate Professor with tenure

Sep.07- Aug.08	Radboud University, Nijmegen, Netherlands Department of Biophysics Visiting Professor on sabbatical from UC Irvine
2008	Julius Finance/Benchmark Solutions, New York USA Member Technical Advisory Board
July 08-now	UC Irvine, USA School of Information and Computer Science Joint Appointment” at the Dept. of Statistics
July 09-now	UC Irvine, USA School of Information and Computer Science Full Professor
2010	M&M Trading, Newport Beach Consultant
2010-2012	Identity Metrics, Aliso Viejo Consultant
Sept. 2012-	University of Amsterdam (UvA), Netherlands “Hoogleraar” (Full Professor and Research Chair)
2013-now	Google Deepmind, London, UK Consultant
Nov. 2013-now	University of Amsterdam Director of the Master AI
Jan. 2015-now	University of Amsterdam Board member of the Amsterdam Data Science
May 2015-now	Canadian Institute of Advanced Research Senior Fellow
May 2015-now	QUVA Qualcomm-UvA Lab Co-Director

Companies

Jan. 2013	Scyfer	Amsterdam, NL
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Teaching

1987-1998 Assistant	Utrecht University Physics for biologists Statistical mechanics Analysis and algebra Quantum mechanics Electrodynamics Classical mechanics	Utrecht, Netherlands
2000	Caltech, Pasadena	

spring 00	Learning Systems
2001	University College London
fall 01	Unsupervised Learning
2004-2012	University of California Irvine
winter 04	ICS-280, Learning in Graphical Models (new)
spring 04	ICS-6A, Discrete Mathematics
fall 04	ICS-279, Perfect Sampling
winter 05	ICS-273B, Kernel-Based Learning (new)
spring 05	ICS-6A, Discrete Mathematics
fall 05	ICS-171, Intro Artificial Intelligence
winter 06	ICS-171 Intro Artificial Intelligence
spring 06	ICS-274B Learning in Graphical Models
fall 06	ICS-273A Intro Machine Learning (new)
winter 07	ICS-178 Intro Machine Learning and Data Mining (new)
spring 07	ICS-171 Intro Artificial Intelligence
fall 08	ICS-295, Research Project in AI
fall 08	ICS-171, Intro Artificial Intelligence
winter 08	ICS-171, Intro Artificial Intelligence
spring 09	ICS-273A, Intro Machine Learning
fall 09	ICS-171, Intro AI
fall 09	ICS-271, Intro AI
spring 10	ICS-273A, Intro Machine Learning
fall 10	CS-171, Intro AI
winter 11	CS-175, Project in AI
winter 11	CS-273A, Intro Machine Learning
fall 12	CS-273A, Intro Machine Learning
winter 12	CS-175, Project in AI
winter 12	CS-77B Collaborative Filtering
2012-now	University of Amsterdam / Amsterdam University College
winter-spring 13	Machine Learning (AUC)
fall 13	Machine Learning: Pattern Recognition (UVA)
fall 13	Machine Learning: Principles and Methods (UVA)
fall 14	Machine Learning I (UvA)
winter 15	Machine Learning: Principles and Methods (UVA)
spring 15	Machine Learning II (UvA)
fall 15	Machine Learning I (UvA)

Invited Talks

(after Mar. 2003)

Mar.19 2003	UC Irvine	USA
	Propagation Algorithms for Probabilistic Inference in Graphical Models with Cycles	
Apr.7 2003	UC San Diego	USA
	Propagation Algorithms for Probabilistic Inference in Graphical Models with Cycles	
Apr.21 2003	Carnegie Mellon U.	USA
	Propagation Algorithms for Probabilistic Inference in Graphical Models	

with Cycles

- 30 Sept. 2003 University of Montreal Canada
Extreme Components Analysis and Under-complete Products of Experts
- Nov.17 2003 UC Los Angeles USA
Learning the Statistics of Natural Images with Products of Experts
- Dec.12 2003 Whistler Canada
Workshop: Robust Communication Dynamics in Complex Networks
On the Choice of Clusters for Generalized Belief Propagation
- Feb.27 2004 Caltech-Pasadena USA
On the Choice of Clusters for Generalized Belief Propagation
- Mar.23 2004 Caltech-Pasadena USA
Trends in Machine Learning
- Apr.01 2004 UC Berkeley USA
On the Choice of Clusters for Generalized Belief Propagation
- Jul.22 2004 Radboud U. Nijmegen Netherlands
On the Choice of Clusters for Generalized Belief Propagation
- Jul.28 2004 University of Edinburgh U.K.
Approximate Inference Algorithms based on Loopy Belief Propagation
- Nov.08 2004 Caltech-Pasadena USA
Graphical Models: The New Paradigm for Probabilistic Modelling
- Nov.24 2004 Stanford University USA
Modelling and Denoising Digital Images using Products of “Edge-perts” Models
- Dec.16 2004 Vancouver (NIPS conf.) Canada
Exponential Family Harmoniums with an Application to Information Retrieval
- Jan.8 2005 Barbados (AISTATS)
Robust Higher Order Statistics
- Mar.30 2005 Caltech-Pasadena USA
Structured Region Graphs
- Apr.4 2005 Brown University USA
Understanding and Designing Message Passing Algorithms
for Approximate Inference in Graphical Models
- May.23 2005 UC Riverside USA
Inferring Offset-Normal Shape Distributions Using EM
- Jul.18 2005 Max Planck Inst. Tübingen, Germany
Tuning Fisher Kernels from Ensembles of Generative Models
for Object Class Recognition
- Aug.7 2005 Minneapolis (JSM) USA

Inferring Parameters and Structure of Markov Random Field Models

Dec.6 2005 Vancouver (CIAR) Canada
Energy-Based Information Retrieval and Object Recognition

Feb.10 2006 San Diego USA
Inaugural workshop - Information Theory and Applications
Structured region graphs: a general framework for message passing algorithms

Jun.30 2006 Pittsburgh USA
ICML workshop on Nonparametric methods
Flexible Priors for Infinite Mixture Models

Jul.16 2006 Cambridge, MA (MIT) USA
Conference on Uncertainty in Artificial Intelligence
Bayesian Random Fields: The Bethe-Laplace Approximation

Aug.3 2006 University Groningen Netherlands
Tuning Fisher Kernels from Ensembles of Generative Models
for Object Class Recognition

Aug.8 2006 University Maastricht Netherlands
Bayesian Random Fields: The Bethe-Laplace Approximation

Oct.10 2006 Caltech-Pasadena USA
Kickoff meeting ONR MURI grant
Learning Visual Object Class Taxonomies

Feb.01 2007 UCSD USA
Nonparametric Bayesian Matrix Factorization

July 13 2007 Microsoft USA
Nonparametric Bayesian Graphical Models

July.17 2007 University of Washington USA
Developments in Nonparametric Bayesian Modeling and Inference

Sept.20 2007 Radboud U. Biophysics Netherlands
Developments in Nonparametric Bayesian Modeling and Inference

Nov.12 2007 Radboud U. CS Dept. Netherlands
Visual Object Recognition by Probabilistic Inference

Dec.06 2007 Workshop Deep Learning Vancouver, US
Hierarchical Representations from networks of HDPs

Jan.08 2008 Technical University Delft Netherlands
Object Recognition by Hybrid Generative Discriminative Approaches

Mar.03 2008 University of Toronto Canada
Six Ways to Improve Inference for Bayesian Networks

Mar.25 2008 University of Amsterdam Netherlands
Infinite State Bayesian Networks

Apr.17 2008 Netherlands Institute of Forensics Netherlands
Statistical Analysis of AFIS Fingerprint Matching

Apr.21 2008 Gatsby Computational Neuroscience Unit, UCL London, UK
Six Ways to Improve Inference for Bayesian Networks

Apr.30 2008 Max Planck Institute for Cybernetics Tübingen, DE
Unsupervised Learning of Visual Taxonomies

May 05 2008 ETH Zürich, Switzerland
Unsupervised Learning of Visual Taxonomies

April 14 2009 Clearwater Florida
On Herding Dynamical Weights and Fractal Geometry
Invited Speech Snowbird Learning Workshop

April 20 2009 UC Irvine CA
On Herding Dynamical Weights and Fractal Attractors
AIML Seminar Series

May 04 2009 Princeton US
Herding Dynamical Synapses to Learn

June 16 2009 Montreal – ICML, CAN
Herding Dynamical Synapses to Learn
contributed talk

June 18 2009 Montreal, CAN
Learning to Herd and Herding to Learn
ICML 2009 Workshop on Learning Feature Hierarchies (invited)

June 23 2009 Tilburg Netherlands
Discovering Preferences and Constraints using Extreme Components Analysis
Invited Talk Symposium on Dimensionality Reduction

Aug. 13 2009 Nijmegen Netherlands
Herding Dynamic Weights for Partially Observed Random Field Models

Oct. 16 2009 Math Dept. UCI
A weakly chaotic dynamical system driven by observations

Feb. 01 2010 UC Riverside
Modeling Data with Weakly Chaotic Nonlinear Dynamical Systems

Feb. 04 2010 Information Theory Applications Workshop San Diego
Learning and Compression with Weakly Chaotic Systems

Mar. 10 2010 Int'l Workshop On Statistical-Mechanical Informatics Kyoto
Learning and Compression with Weakly Chaotic Systems

Mar. 12 2010 University of Tokyo
Learning and Compression with Weakly Chaotic Systems

Mar. 19 2010 Georgia Tech Atlanta
Statistical Inference using Weak Chaos and Infinite Memory

Aug. 27 2010 Centrum Wiskunde Informatica, Amsterdam
Herding: Learning with Weakly Chaotic Nonlinear Dynamical Systems

Sep. 17 2010 UC Merced
Herding: Learning with Weakly Chaotic Nonlinear Dynamical Systems

Dec. 2 2010 Arlington, VA ONR-MURI Grant meeting
Kingman's Coalescent for Image Taxonomization

Dec. 5 2010 Vancouver, BC CIFAR meeting
Learning Nonparametric Hierarchies from Image Data

Dec.10 2010 Whistler, BC NIPS Workshops
Distributed Gibbs sampling for Topic Models and Bayesian Networks

Mar. 14 2011 Workshop: "All Models are Wrong" , Groningen, Netherlands
The Nonlinear Dynamics of Learning

Mar. 17 2011 Rijksuniversiteit Groningen , Netherlands
Herding: Learning, Computation, Chaos

Mar. 21 2011 Cambridge University UK
Herding: Learning with Weakly Chaotic Nonlinear Dynamical Systems

June. 17 2011 Machine Learning Summer School , Singapore
Learning in Markov Random Fields

Sept. 05 2011 CIMAT Workshop, Guanajuato, Mexico
Learning in Markov Random Fields

Dec 11 2011 CIFAR Workshop, Granada, Spain
Bayesian Posterior Sampling with Stochastic Gradients

Dec 21 2011 University of Amsterdam, Netherlands
Three Ways to Scale up MCMC Sampling for Statistical Inference

Jan 04 2012 ID Analytics, San Diego
Learning and Sampling with Stochastic Gradients

Feb 09 2012 Workshop on Information Theory and Applications (ITA), San Diego
Exchangeable but Inconsistent Priors for Bayesian Posterior Inference

Mar 27 2012 Purdue University, Purdue
Bayesian Posterior Sampling using Stochastic Gradients

Apr 19 2012 Los Alamos National Labs, NM
Improving Belief Propagation with Cycle Bases and Cluster Cumulants

Apr 23 2012 IEEE-OCCS
Machine Learning and the Big Data Challenge

May 2 2012 Google, Mountain View
Bayesian Posterior Sampling using Stochastic Gradients for “Big Data” Analysis

May 3 2012 Yahoo!, Sunnyvale
Bayesian Posterior Sampling using Stochastic Gradients for “Big Data” Analysis

May 16 2012 Caltech
Bayesian Posterior Sampling using Stochastic Gradients

Oct. 16 2012 UvA, IvI
From Physics to Informatics: The Statistical Mechanics of Graphical Models

Oct. 19 2012 UvA, KdV
Bayesian Posterior Sampling using Stochastic Gradients

Nov. 23 2012 UvA, IvI
Learning with Weakly Chaotic Nonlinear Dynamical Systems

Dec. 02 2012 CIFAR meeting
MCMC with stochastic gradients

Dec. 08 2012 NIPS, Lake Tahoe, CA, USA
Herding dynamical weights to learn

Mar. 25 2013 Oxford University, UK
Austerity in MCMC Land: Cutting the Computational Budget

Mar. 27 2013 Cambridge University, UK
Austerity in MCMC Land: Cutting the Computational Budget

May 04 2013 ICLR Conference (invited)
Austerity in MCMC Land: Cutting the Computational Budget

May 08 2013 Caltech
Austerity in MCMC Land: Cutting the Computational Budget

May 13 2013 U. Postdam, Germany
Austerity in MCMC Land: Cutting the Computational Budget

May 21 2013 UvA, Netherlands
Austerity in MCMC Land: Cutting the Computational Budget

Dec. 3 2013 CIFAR NCAP, San Francisco, USA
Bayesian posterior inference when your model is a very expensive simulation

Dec. 9 2013 NIPS Workshops, Lake Tahoe, USA
Minibatch Based Bayesian Posterior Inference

Jan. 29 2014 Inaugural Speech, Amsterdam, NL
Van veel data, snelle computers en complexe modellen tot zelflerende machines

March. 19 2014 Universiteit Delft, NL
Being a Big Data Bayesian

April. 16 2014 UT Austin, TX, USA
Symposium on Advanced Scientific Computation
MCMC for Big Data

May. 28 2014 Edinburgh, UK
Bayes in the Age of Big Data

June 17 2014 ASCOR Meeting, Amsterdam, NL
Big Data, Graphical Models and Inference for the Social Sciences

July 13 2014 ANed/BMS Meeting, The Hague, NL
Some Machine Learning Tools for "Omics Data"

July 21 2014 Beijing, China
Tutorial: Bayesian Inference in the Big Data Arena

July 31 2014 Qualcomm, San Diego, US
Deep Generative Modeling

Oct 09 2014 Facebook, New York, US
Deep Generative Models

Oct 16 2014 Amazon, Berlin, DE
Learning Deep Disentangled Representations

Nov 27 2014 Congres Innovatie aan Zee, Scheveningen, NL
Artificial Intelligence and Big Data: An Explosive Mix?

Dec 7 2014 CIFAR NCAP, Montreal, CAN
The Revenge of the Helmholtz Machines

Jan 22 2015 NOS, Hilversum, NL
Machine Learning for the NOS

Feb 04 2015 NEDAP, Groenlo, NL
Big Data and Deep Learning, A Powerful Mix

Feb 12 2015 Philips, Eindhoven, NL
Big Data and Deep Learning, A Powerful Mix

Feb 19 2015 Hebrew University of Jerusalem, Israel
Uncertainty in Artificial Intelligence: Theory and Large Scale Applications
The Return of the Helmholtz Machines

April 15 2015 Gatsby Unit, UCL, UK
Bayesian Inference in Complex Generative Models

May 19 2015 TU München, DE
Approximate Bayesian Computation with Noisy Gradients:
From Big Data to Complex Simulations

May 22 2015 iLike Workshop, Bristol UK
Approximate Bayesian Computation with Noisy Gradients:

From Big Data to Complex Simulations

Aug 21 2015 UC Irvine
The Return of the Helmholtz Machines

Sept 02 2015 SNS Bank
Kunstmatige Intelligentie
Hoe slimme systemen de maatschappij zullen transformeren

Sept 14 2015 Philips
Machine Learning, A Transformative Force

Sept 24 2015 Deep Learning Summit, London
Challenges for Deep Learning in Healthcare

Sept 29 2015 eHealth Conference Amsterdam
Machine Learning for Healthcare

Oct. 08 2015 keynote GCPR Conference, Aachen
Learning to Generate

Oct. 15 2015 Symposium Big Data Amsterdam
Machine Learning
(and how it connects to you)

Oct. 16 2015 Deloitte
Kunstmatige Intelligentie,
Hoe slimme systemen de maatschappij zullen transformeren

Oct. 19 2015 Tübingen
Learning to Generate

Oct. 21 2015 Bosch, Renningen
Machine Learning and Deep Learning in Amsterdam

Oct. 22 2015 Heidelberg
Disentangling Deep Representations

Oct. 30 2015 Neuro-Imaging meeting Utrecht
Deep Models for Neuro Imaging

Nov. 03 2015 EDA Workshop Brussels
Deep Learning

Dec. 05 2015 CIFAR Workshop Montreal
Group-Equivariant Convolutional Networks

Dec. 11 2015 Probabilistic Integration Workshop, NIPS, Montreal
Optimization Monte Carlo

Media

2 feb. 2013 NRC Opinie
“Open access wel degelijk belangrijk in economie”
18 juni 2013 NRC Opinie
“Mijn data mogen ze hebben hoor”

29 juni 2013	Pavlov “Nergens meer onbespied” (Radio)
4 feb. 2014	De Kennis van Nu Interview over “Lerende Machines” (Radio)
6 sep. 2014	Folia / Parool “Big data hoeven privacy niet aan te tasten”
26 sep. 2014	Computable “Hoe ontrafelen we ‘wat’ en ‘waar’ in videobeelden?”
22 dec. 2014	ASTRON Newsletter “When saving all the data captured by the antennas is simply not an option”
10 jan. 2015	Parool ”Een computer met een mensenbrein”
22 jan. 2015	I/O Magazine “Natuurlijke en kunstmatige intelligentie: dubbel zo slim”
23 jan. 2015	De Ingenieur “Lerende computer-neuronen”
25 juni 2015	Interview in NRC-Q “Waarom Facebook en Google jouw brein willen namaken”
7 juli 2015	Interview in Het Financieel Dagblad “Afgestudeerde econometrist heeft de banen nu voor het uitzoeken”
28 juli 2015	19:30 RTL Nieuws Interview over Gevaren AI
22 aug. 2015	Artikel in Het Financieel Dagblad “Flexibel werken en voor ieder een basisinkomen”
26 sep. 2015	Artikel in Het Financieel Dagblad “Deep Learning maakt ons bestaan smarter en kwetsbaarder”
24 dec. 2015	VPRO Marathoninterview door Jelle Brandt Corstius

Grants

1998-2000	Caltech Vision Lab	Pasadena, USA
	Sloan Postdoctoral Fellowship	
	\$21,794 annually	
Dec. 2003	UC Irvine	Irvine, USA
	ICS - Faculty Research and Travel Funds for the Council on Research	
	\$3000	
Dec. 2004	UC Irvine	Irvine, USA
	ICS - Faculty Research and Travel Funds for the Council on Research	
	\$3000	
3/15/05-2/28/10	NSF-Career	
	Undirected Bipartite Graphical Models	
	IIS 0447903, \$450,000	
8/1/05-7/31/08	NSF Collaborative Research	
	Joint with Perona at Caltech	
	Learning Taxonomies of the Visual World	
	IIS-0535278 \$162,805	
Dec. 2005	UC Irvine	Irvine, USA
	ICS - Faculty Research and Travel Funds for the Council on Research	

\$5000

5/1/06-9/30/09 ONR-MURI
Joint with UCB, CIT, MIT, UCLA, UIUC, Oxford U.
Learning to Recognize for Visual Surveillance
\$ 185,000

Dec. 2006 UC Irvine Irvine, USA
ICS - Faculty Research and Travel Funds for the Council on Research
\$2000

Aug. 2007 Nijmegen Netherlands
Visiting Professor Grant
Euro 21,780 Dutch Science Foundation (NWO)

Mar. 2008 Dean's Mid-Career Award for Research
Donald Bren School of Information and Computer Science
UC Irvine
\$ 500

Dec. 2008 Proposal for Collaborative Research Initiation Award (CRIA)
Newborn Intensive Care Exercise Therapy Activity Recognition
UC Irvine
\$13,181

May 2009 Ted and Janice Smith Faculty Seed Fund 2009
Computationally-Aware Learning for Visual Recognition
UC Irvine
\$5,000

Sep. 2009 NSF PRISM Grant
Joint with Jack Xin, Hong-Kai Zhao, Sarah Frey (Math Dept.)
UCI Interdisciplinary computational and applied mathematics program
UC Irvine
IIS-0928427 \$1,950,568

Sep. 2009 NSF Collaborative Grant
Joint with Perona at Caltech
Infinite Bayesian Networks for Hierarchical Visual Categorization
UC Irvine
IIS-0914783, \$300,000

Sept. 2009 NIH/NCI GO Grant
Joint with Lowengrub, Lander, Kolmorova, Lee, Wodartz
Feedback, lineages and cancer: A multidisciplinary approach
1RC2CA148493-01: \$2,033,332

Sept. 2010 NSF Collaborative Grant
Joint with A. Goredetski (math)
Nonlinear Dynamical System Theory for Machine Learning
IIS-1018433, \$450,000

Sept. 2012 NSF Grant
Joint with B. Shahbaba

Efficient Bayesian Learning from Stochastic Gradients
IIS-1216045, \$500,000

May 2013 NWO Grant - Vrije Competitie
Chaos for Efficient Statistical Inference and Simulation
230,000 Euro

June 2013 Yahoo! Faculty Award
Evaluating the feasibility of nonparametric Bayesian models
for large scale online recommendation systems
\$ 20,000

June 2014 Facebook Research Award
Deep Learning Research
\$ 50,000

May 2014 NWO Grant- Big Bang Big Data
Beyond Compressive Sensing: Learning Radio-Interferometric Image Reconstruction
230,000 Euro

Sept 2014 NWO Grant- Natural AI
LeArning the Fundamental Symmetries in video data
217,000 Euro

April 2015 Google faculty Research Award
Symmetries, Synthesis and Semi-Supervision for
Improving Statistical Efficiency of Deep Learning
200,000 dollar

April 2015 NWO KIEM
MRI Biomarker Discovery through Deep Learning
94,000 euro

June 2015 SAP Sponsored Research
Deep Collaborative Clustering and Prediction
400,000

Sept 2015 TNO Sponsored Research
Multiview Deep Learning
204,000

Awards

Mar. 2005 NSF Career Award
Mar. 2008 Dean's Mid-Career Award for Research
Sept. 2010 ECCV Koenderink Prize
Dec. 2012 ICML Best Paper Award

Memberships

Dec. 2010 Member of the Neural Computation and Adaptive Perception Program
Canadian Institute for Advanced Research

Apr. 2015 Fellow of the Neural Computation and Adaptive Perception Program
Canadian Institute for Advanced Research

Institutional Service

04-06	Academic Senate Assembly Representative, UC Irvine
04-06	Educational Policy Committee, CS Dept. UCI
06/07	Executive committee
06/07	Bio-informatics recruitment committee.
09/10	Chair Hayes Tenure Committee
09/10	Graduate Recruitment Committee
09-11	CS Student Outreach, Access, and Retention Committee
09/10	Advisory Committee to the dean for selecting the next chair
10-12	Campus-wide Honors Program Board
10/11	CS Communications Committee
11/12	Executive committee

Professional Service

Executive Board:

2015-now Neural Information Processing Systems (NIPS)

Associate Editor in Chief:

2011-2015 IEEE Transactions on Pattern Analysis and Machine Intelligence

Program Chair:

Program Chair, Int'l Conf. Artificial Intelligence and Statistics, AISTATS (2009)
Program Chair, Conference on Neural Information Processing Systems, NIPS (2013)
Program Chair, European Conference on Computer Vision, ECCV (2016)

Conference Chair:

Tutorials Chair, International Conference on Machine Learning, ICML (2007)
Senior Advisory Board, Int'l Conf on Artificial Intelligence and Statistics, AISTATS (2010)
Tutorials Chair, Conference on Neural Information Processing Systems, NIPS (2011)
General Chair, Conference on Neural Information Processing Systems, NIPS (2014)

Workshop Organizer:

Inference and Learning, Gatsby Unit, UCL (2001)
Propagation Algorithms on Graphs with Cycles: Theory and Applications NIPS (2002)
First Southern California Workshop on Machine Learning, SoCaML (2011)
ABC in Montreal, NIPS (2014)
Deep Learning Workshop, ICML (2015)
Deep Learning Symposium, NIPS (2015)
Scalable Monte Carlo Methods for Bayesian Analysis of Big Data, NIPS (2015)

Associate (Action) Editor:

2004-2007 Neurocomputing
2007-2009 Journal of Computational and Graphical Statistics
2007-2011 IEEE Transactions on Pattern Analysis and Machine Intelligence

Member Editorial Board:

2009- Journal Machine Learning Research
2010- Machine Learning Journal
2014- Neural Computation

Senior Program Committee (a.k.a. area chair):

Conference on Uncertainty in Artificial Intelligence (2006)
International Conference on Machine Learning (2008)
Conference on Neural Information Processing Systems (2008)

Outside Letter Writer for Promotions

2009 (1)
2010 (1)
2011 (2)
2012 (2)
2013 (1)
2014 (1)

Grant Reviewing/Panels:

Mar. 2007: NSF-RI/IIS Panel
Feb. 2009: NSF-RI/IIS Medium Size Proposals Panel
Oct. 2009 NSF-IIS/Career Panel
Oct. 2010 NSF-IIS/Career Panel
Jan. 2011 ARO grant review
Oct. 2011 NSF-IIS/Career grant review
Jan. 2014 NWO-IPPSI-TA (chair review panel)

Reviewing (conferences):

Neural Information Processing Systems (2002,2003,2004,2006,2009,2010)
International Conference on Machine Learning (2004,2006,2012)
Workshop on Artificial Intelligence and Statistics (2005,2007,2010,2011,2012)
Conference on Uncertainty in Artificial Intelligence (2005,2006,2007,2011,2012)

Reviewing (journals):

Neural Computation
Journal Machine Learning Research
IEEE Transactions on Signal Processing
IEEE Transactions on Pattern Analysis and Machine Intelligence
IEEE Transactions on Information Theory
IEEE Transactions on Image Processing
IEEE Transactions on Audio, Speech and Language Processing
International Journal Computer Vision
Neurocomputing
Journal Artificial Intelligence Research
Statistics and Computing
Computational Statistics and Data Analysis
JASA
Theoretical Computer Science
JSTAT

**Supervision
of Postdocs**

Sep.03-Sept.04	Michal Rosen-Zvi	UCI
Sep.06-Dec.08	Evgeniy Bart	UCI

Mar.10-Jun.12	Dilan Gorur	UCI
Mar.13-now	Ted Meeds	UVA

Supervision of PhD Stud.

Sep.04-Jul.06	Anna Nash	UCI
Sep.04-Sep.07	Sridevi Parise	UCI
Sep.04-Aug.10	Ian Porteous	UCI
Sep.04-Jun.05	Kenichi Kurihara	Tokyo U.
Sep.04-Oct.04	Peter Gehler	UCI
Sep.05-Oct.05	Peter Gehler	UCI
Sep.05-Sep.06	Ezekiel Bhasker	UCI
Sep.06-Aug.07	Nathan Sutter	UCI
May 07-Jun.07	Kenichi Kurihara	Tokyo U.
Sep.07 -May 13	Yutian Chen	UCI
Sep.08 - Apr.14	Levi Boyles	UCI
Sept.09 - Aug.10	Xiangxin Zhu	UCI
Sept.09- Apr.14	Andrew Gelfand	UCI
Dec.10-Mar.11	Kevin Heins	UCI
Sep.10-now	Anoop Korattikara	UCI
Sept.10-now	Sungjin Ahn	UCI
Jan.11-Dec.12	Peter Huang	UCI
Mar.13-now	Durk Kingma	UvA
Oct.13-now	Taco Cohen	UvA

Supervision of Bs Stud.

Sep.'02-Jun.'03	Peter-Vincent Gehler	U.Toronto
Sep.06-Sep.07	Joseph Lim	UCI
Jun.09 - Sep.10	Kevin Grant	UCI
Jun.11- Aug. 11	Robert Zhou	UCI
Jan.12- Aug.12	Michael Vorobyev	UCI

Diploma Committee

Feb.14 2005	Peter Gehler	Univ. of Bielefeld, Germany
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Advancement Committee

Mar.16 2004	Jianlin Cheng	UC Irvine
May.19 2004	Bozhena Bidyuk	UC Irvine
Jun.11 2004	Radu Marinescu	UC Irvine
Sep.08 2004	Vibhav Gogate	UC Irvine
Oct.21 2005	Seyoung Kim	UC Irvine
Dec.13 2005	Pierre Moreels	EE Caltech
Mar.22 2006	Alex Holub	EE Caltech
Jun.14 2006	Chaitanya Chemudugunta	UC Irvine
Aug.30 2006	Arlo Randall	UC Irvine
Sep.22 2006	Claudio Fanti	EE Caltech
Dec.14 2006	Lucas Scharenbroich	UC Irvine
May 25 2007	Tim DeVries	Earth Sciences UC Irvine
Oct.21 2008	Robert Porter	Physics Dept. UC Irvine
Oct.24 2008	Luis Alberto Rodriguez	Mechanical Engineering UC Irvine
Nov.03 2008	Ian Porteous	UC Irvine (chair)
Nov.14 2008	Ryan Gomes	EE Caltech
Dec.16 2008	Marco Andreetto	EE Caltech

Mar.03 2009	David Orendorff	UC Irvine
May 07 2009	Kate Longo	UC Irvine (Math.)
May 26 2009	Julian Yarkony	UC Irvine (CS)
Jun.08 2009	Meng Yu	UC Irvine (Math.)
Jun.10 2009	Lars Otten	UC Irvine (CS)
Jun.11 2009	Yutian Chen	UC Irvine (chair)
Sep.10 2009	Zhiwei Wu	UC Irvine (Math.)
Sep.14 2009	Shih-Hsien Yang	UC Irvine (CS)
Sep.17 2009	Ying Chen	UC Irvine (Math.)
Mar.04 2011	Qiang Liu	UC Irvine (CS)
Mar.06 2011	Jimmy Foulds	UC Irvine (CS)
Mar.28 2011	Darren Davis	UC Irvine (CS)
Apr.20 2011	Michael Werth	UC Irvine (Physics)
Apr.28 2011	Brokk Toggerson	UC Irvine (Physics)
May 18 2011	Scott Triglia	UC Irvine (CS)
May 07 2011	Robert Coleman	UC Irvine (CogSci)
Jul. 08 2011	Yifei Chen	UC Irvine (CS)
Oct. 04 2011	Yi Yang	UC Irvine (CS)
Oct. 07 2011	Dennis Park	UC Irvine (CS)
Nov.29 2011	Anoop Korrattikara	UC Irvine (chair)
Dec.01 2011	John Snyder	UC Irvine (physics)
Feb.22 2011	Hsiao-fan Liu	UC Irvine (math)
Feb.21 2012	Xiangxin Zhu	UC Irvine (ICS)
Mar.05 2012	Majid Janzamin	UC Irvine (EE)
Apr.16 2012	Andrew Gelfand	UC Irvine (chair)
Jun.05 2012	Shiwei Lan	UC Irvine (Stats)
Jun.08 2012	Levi Boyles	UC Irvine (chair)
Dec.11 2012	Sungjin Ahn	UC Irvine (chair)

Master Committee

Jul.28 2010	Levi Boyles	UC Irvine (chair)
Nov.17 2010	Kiran Shivaram	IC Irvine
Mar.01 2011	Anoop Korattikara	UC Irvine (chair)
Nov.28 2011	Vishnu Balluru	UC Irvine (chair)
Sep.25 2013	Taco Cohen	UvA (chair)
Aug.26 2014	Amogh Gudi	UvA (chair)
Aug.26 2014	Steven Laan	UvA
Aug.27 2014	Karen Ullrich	UvA (chair)
July 29 2015	Christos Louizos	UvA (chair)

PhD Committee

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Jan.06 2006	Bozhena Bidyuk	UC Irvine
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Dec.2 2007	Claudio Fanti	EE Caltech
Mar.3 2008	Edward Meeds,	University of Toronto
Jun.23 2009	Laurens van der Maaten,	Tilburg University, Netherlands
May 29 2009	Vibhav Gogate	UC Irvine
May 29 2009	Chaitanya Chemudugunta	UC Irvine
Jun.29 2009	Peter Carbonetto	U. British Columbia, Canada
Apr.26 2010	Ian Porteous	UC Irvine (chair)
Jan.13 2011	Marco Andreetto	EE Caltech
Jan.18 2011	Ryan Gomes	EE Caltech

Jul.18 2012	Julian Yarkony	UC Irvine
Oct.25 2012	Mohammad Azar	Radbout U. Nijmegen
Mrt. 14 2013	Rick Quax	UvA
Apr. 18 2013	Jafar Tanha	UvA
May10 2013	Yutian Chen	UC Irvine (chair)
May 28 2013	Katja Hofmann	UvA
May 31 2013	Trung Kien	UvA
Apr.10 2014	Andrew Gelfand	UCI
Apr.14 2014	Levi Boyles	UCI (chair)
Sep.3 2014	Alexander Pyayt	UvA
Sep.3 2014	Efstratios Gavves	UvA
Oct.28 2014	Martijn Liem	UvA
Mar.24 2015	Maria-Hendrike Peetz	UvA
Jun.10 2015	Veronika V. Cheplygina	TUD
Aug. 21 2015	Sungjin Ahn	UC Irvine (chair)
Oct. 7 2015	Benigno Uria	University of Edinburgh

Patents

P. Perona, M. Weber, M. Welling
Unsupervised Learning of Object Categories from Cluttered Images
 Appl. serial No. 10/066,318; US serial No: 60/266,014
 Filing date Feb.01,2002; Status: accepted

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- C74 M. Welling, A. Gelfand and A. Ihler, *A Cluster-Cumulant Expansion at the Fixed Points of Belief Propagation*, 2012, Conference on Uncertainty in Artificial Intelligence (UAI2012) pp. 883-892
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- C95 T. Meeds, M. Welling, 2015, *Optimization Monte Carlo: Efficient and Embarrassingly Parallel Likelihood-Free Inference*, Neural Information Processing Systems (NIPS2015), accepted.
- C96 D. Kingma, T. Salimans, M. Welling, 2015, *Variational Dropout and the Local Reparameterization Trick*, Neural Information Processing Systems (NIPS2015), accepted.
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- BC2 Y. Chen, A. Gelfand, M. Welling, 2014, *Herding for Structured Prediction*, in: *Advanced Structured Prediction*, S. Nowozin, P. V. Gehler, J. Jancsary, C. Lampert (Eds.), The MIT Press Cambridge, Massachusetts London, England.

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Contributed Discussions

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