

**Education**

- 02/02/1999 *PhD in Physics*, University of Genoa, Italy.  
Thesis entitled “Study and Application of Statistical Learning Theory” (Advisor: Prof. A. Verri).
- 13/07/1994 *Laurea in Physics (summa cum laude)*, University of Genoa, Italy.

**Positions**

- 2016– *Senior Researcher*, Italian Institute of Technology, Italy.
- 2010– *Professor*, Department of Computer Science, UCL, UK (part-time from 01/01/2016).
- 2006–2010 *Reader*, Department of Computer Science, UCL, UK.
- 2003–2006 *Lecturer*, Department of Computer Science, University College London (UCL), UK.
- 2000–2003 *Research Associate*, Department of Information Engineering, University of Siena, Italy.
- 1999–2000 *Postdoctoral Fellow*, Center for Biological and Computational Learning, MIT, USA.

**Research Interests**

Machine learning theory and algorithms, artificial intelligence, numerical optimization, statistics. Ongoing interdisciplinary applications in affective computing, bioinformatics, computer vision, neuroimaging, user modelling.

**Advisory Boards**

- 2013 Evaluation Committee, Ecole Normale Supérieure de Cachan, France.
- 2012–2017 Scientific Advisory Board, Max Planck Institute for Intelligent Systems, Germany.

**Editorial Board**

- 2013– Journal of Machine Learning Research, Action Editor.
- 2013– Statistics and Computing.
- 2009– Machine Learning Journal.
- 2004–2006 Pattern Recognition Letters.

**Program Committees**

- 2016 International Conference on Machine Learning (ICML), Area Chair.
- 2016 International Conference on Pattern Recognition Applications and Methods (ICPRAM).
- 2015 Neural Information Processing Systems (NIPS), Area Chair.
- 2015 International Conference on Machine Learning (ICML), Area Chair.
- 2015 Annual Conference on Learning Theory (COLT).
- 2014 International Conference on Machine Learning (ICML), Area Chair.
- 2013 Neural Information Processing Systems (NIPS), Area Chair.
- 2013 International Workshop on Similarity-Based Pattern Analysis and Recognition (SIMBAD).
- 2012 International Conference on Artificial Intelligence and Statistics (AISTATS), Area Chair.
- 2011 Annual Conference on Learning Theory (COLT).
- 2011 International Workshop on Similarity-Based Pattern Analysis and Recognition (SIMBAD).
- 2010 Annual Conference on Learning Theory (COLT).
- 2010 Eighth International Workshop on Mining and Learning with Graphs (MLG-2010).
- 2009 NIPS Workshop on Transfer Learning for Structured Data.
- 2009 International Conference on Algorithmic Learning Theory Conference (ALT).
- 2009 International Conference on Machine Learning (ICML), Area Chair.
- 2008 Annual Conference on Learning Theory (COLT).
- 2007 European Conference on Machine Learning (ECML).
- 2006 Annual Conference on Learning Theory (COLT).
- 2006 Joint IAPR International Workshops on Structural and Syntactic Pattern Recognition and Statistical Techniques in Pattern Recognition.

- 2005 Annual Conference on Learning Theory (COLT).  
 2004 International Conference on Machine Learning (ICML).

### Organization

- 2015 *Co-organizer*, Dagstuhl Seminar 15152, entitled "Machine Learning with Interdependent and Non-identically Distributed Data, Dagstuhl, Germany.  
 2012 *Co-organizer*, ICML Workshop entitled "Object, Functional and Structured Data: Towards Next Generation Kernel-Based Methods", Edinburgh, Scotland.  
 2010 *Co-organizer*, Conference entitled "Information Representation and Estimation", UCL, UK.  
 2009 *Co-organizer*, Workshop entitled "Sparsity in Machine Learning and Statistics", Cumberland Lodge, UK.  
 2006 *Co-organizer*, Open House on "Multi-Task and Complex Outputs Learning", UCL, UK.  
 2005 *Co-chair*, NIPS Workshop entitled "Inductive Transfer: 10 Year Later", British Columbia, Canada.  
 2005 *Co-chair*, NIPS Workshop entitled "Accuracy-Regularization Frontier", British Columbia, Canada.  
 2003 *Session Co-organizer*, European Symposium of Artificial Neural Networks (ESANN), Bruges, Belgium.  
 1999 *Co-organizer*, Workshop entitled "Support Vector Machines: Theory and Applications", Crete, Greece.

### Prizes

- 2013 Best Paper Runner Up Award, International Conference on Machine Learning, Atlanta, USA.  
 2006–2011 EPSRC Advanced Research Fellowship, UK.  
 2002 Edoardo R. Caianiello Award for the Best Italian PhD Thesis on Connectionism, Italy.

### Research Grants

- 2014–2017 EPSRC grant EP/M006093/1 entitled "Computational Platform for Assessment of Cognition in Dementia (C-PLACID)", £1,430,004, co-PI (PI: Dr. Sebastian Crutch).  
 2010–2014 EPSRC grant EP/H027203/1 entitled "Structured Sparsity Methods in Machine Learning and Convex Optimisation", £377,888. Lead PI. (EPSRC is the main UK government agency for funding research in engineering and the physical sciences).  
 2011–2013 Royal Society International Joint Project 2010/R2, £11,580. Sole PI.  
 2009–2011 Consultant for US Air Force grant FA9550-09-1-0511, entitled "Estimation, Approximation and Computation in Learning Theory" (PIs: Profs. C.A. Micchelli and Y. Xu)  
 2009 Travel grant to support the workshop on "Sparsity in Machine Learning and Statistics", Pascal 2 Network of Excellence, approx. £5,000.  
 2007–2010 BBSRC grant BB/E017452/1 entitled "Prediction of Protein-Protein Interaction Hot Spots using a Combination of Physics and Machine Learning", £368,821, co-PI (PI: Prof. David Jones, UCL).  
 2006–2011 EPSRC grant EP/D071542/1 entitled "A New Generation of Trainable Machines for Multi-task Learning", £773,385. Sole PI.  
 2006 EPSRC grant EP/D052807/1 entitled "Study of Regularization Methods in Machine Learning", £10,800. Sole PI.  
 2004–2006 EPSRC grant GR/T18707/017 entitled "Novel Machine Learning Methods Based on Techniques from Approximation, Estimation and Computation", £123,766. Sole PI.  
 2005–2007 IST Programme IST-2002-506778 of the European Community, entitled "Multi-task Learning: Optimization Methods and Applications", €56,364. Lead PI.  
 2003–2006 Travel grants, IST Programme IST-2002-506778 of the European Community, approx. £9,000.  
 2003–2005 Senior Participant of US National Science Foundation Grant ITR-0312113, entitled "Adaptive Kernel Based Machine Learning Methods" (PIs: Profs. Y. Xu and C.A. Micchelli).  
 2002 Italian Ministry of Education, University and Research (MIUR) Project "Giovani Ricercatori" entitled "Feature Selection with Kernel Machines Techniques", €5,500.

**Visits to Universities and Research Institutes**

2015: ENSAE Paris Tech (Visiting Chair Professor).  
 June–July 2012 and June–September 2011: University Carlos III of Madrid, Spain (Chair of Excellence).  
 July 14–18, 2009: Max Planck Institute for Biological Cybernetics, Tübingen, Germany.  
 January–May 2008: Isaac Newton Institute for Mathematical Sciences, Cambridge, UK (Visiting Fellow).  
 November 24–28, 2008: Seminar für Statistik, ETH Zurich, Switzerland.  
 March 23–27, 2007: Dipartimento di Informatica, Università Cà Foscari di Venezia, Italy.  
 April 26–May 8, 2004 and April 3–8, 2005: Toyota Technology Institute, University of Chicago, USA.  
 May 5–16, 2005: Department of Mathematics, City University of Hong Kong.  
 February 11–27, 2004: Department of Mathematics, City University of Hong Kong.  
 August 2003: Max Planck Institute for Biological Cybernetics, Tübingen, Germany.  
 June–July 2003: National University of Singapore, Department of Computational Science, Singapore.  
 May 2003: Center for Biological and Computational Learning, Massachusetts Institute of Technology, USA.  
 September 2002: University Carlos III of Madrid, Spain.  
 July 2002: Catholic University of Leuven, Belgium.  
 February–March 2002: Dept. of Mathematics, City University of Hong Kong.  
 December 2–14, 2001: Center for Biological and Computational Learning, Massachusetts Institute of Technology, Cambridge, USA.  
 January 21–February 5, 2001: Brain Sciences Institute, RIKEN, Tokyo, Japan.  
 October 2000–May 2001: Department of Mathematics, City University of Hong Kong.  
 October 1997–September 1998: Center for Biological and Computational Learning, Massachusetts Institute of Technology, USA (Visiting Researcher).

**Invited Talks**

24/04/2015 Ecole Normale Supérieure Paris, France.  
 24/03/2015 EPFL-Idiap-ETH Sparsity Workshop, Lausanne, Switzerland (*Keynote*).  
 12/03/2015 Ecole Normale Cachan, Cachan, France.  
 13/02/2015 SMILE Seminar Series, Paris, France.  
 08/01/2015 Journée ENSAE-ENSAI, Paris, France.  
 11/12/2014 International Conference on Learning and Approximation (*Plenary*).  
 11/09/2014 Optimization and Dynamical Processes in Statistical Learning and Inverse Problems, Sestri Levante, Italy.  
 07/05/2014 Computer Laboratory, University of Cambridge.  
 18/03/2014 Hong Kong University of Science and Technology.  
 16/03/2014 International Workshop on Theoretical and Computational Analyses for Inverse Problems, Guangzhou, China (*Plenary*).  
 14/03/2014 Chinese University of Hong Kong.  
 17/02/2014 Dept of Mathematics, SUNY Albany, USA.  
 07/02/2014 DIBRIS, University of Genoa.  
 22/01/2014 EEE Department, Imperial College London.  
 10/12/2013 NIPS Workshop entitled “New Directions in Transfer and Multi-Task: Learning Across Domains and Tasks”, Lake Tahoe, Nevada, USA (Invited Speaker).  
 29/08/2013 The Machine Learning Summer School, Max Planck Institute for Intelligent Systems, Tübingen, Germany (Invited Lecture).  
 08/07/2013 International Workshop on Advances in Regularization, Optimization, Kernel Methods and Support Vector Machines: Theory and Applications, Leuven, Belgium (*Keynote*).  
 03/07/2013 Applied Inverse Problems Conference, Minisymposium entitled “Regularization Methods in Learning Theory”, Daejeon, Korea (Invited Speaker).  
 05/06/2013 Italian Institute of Technology, Genoa, Italy.

- 06/05/2013 Visual Geometry Group, Department of Engineering Science, University of Oxford, UK.
- 27/03/2013 Department of Mathematics, University of Genoa, Italy.
- 14/03/2013 Department of Statistics, University College Dublin, Ireland.
- 06/03/2013 School of Science and Electronic Engineering, University of Essex, UK.
- 19/02/2013 CSAIL, Massachusetts Institute of Technology, Cambridge, MA, USA.
- 11/02/2013 Workshop on Convex Relaxation Methods for Geometric Problems in Scientific Computing  
Institute for Pure and Applied Mathematics (IPAM), UCLA, USA (Invited Speaker).
- 17/01/2013 Mathematical Institute, University of Oxford, UK.
- 30/10/2012 Department of Computing, Imperial College, London, UK.
- 22/10/2012 Department of Informatics, University of Geneva, Switzerland.
- 25/09/2012 Chinese Conference on Pattern Recognition, Beijing, China (*Keynote*).
- 13/06/2012 Department of Signal Processing, University Carlos III of Madrid.
- 28/05/2012 Third Workshop on Cognitive Information Processing, Baiona, Spain (*Keynote*).
- 23/04/2012 Workshop entitled “Structural Inference Day” Weierstrass Institute (WIAS), Berlin.
- 20/03/2012 Department of Computer Science, Royal Holloway, University of London, UK.
- 24/08/2011 Oberwolfach Workshop on Mathematics of Machine Learning, Oberwolfach, Germany.
- 21/07/2011 Dagstuhl Seminar 11291 on Mathematical and Computational Foundations of Learning Theory,  
Wadern, Germany.
- 20/06/2011 Workshop entitled “Yet another journey through computation”, University of Genoa.
- 25/05/2011 Fourth International Conference on Computational Harmonic Analysis, Hong Kong.
- 11/12/2010 NIPS Workshop on New Directions in Multiple Kernel Learning, Whistler, CA (*Keynote*).
- 01/12/2010 School of Engineering, Computing and Mathematics, University of Exeter.
- 08/10/2010 DISI, University of Genoa, Italy.
- 05/10/2010 Dipartimento di Sistemi e Informatica, University of Florence.
- 21/07/2010 Workshop on Inverse Problems in Data Driven Modelling, RICAM, Linz.
- 06/07/2010 Workshop entitled “Nonlinear Optimization, Variational Inequalities and Equilibrium  
Problems”, Erice, Italy.
- 07/05/2010 Department of Mathematics, Imperial College (Statistics Seminar Series), London, UK.
- 19/04/2010 School of Computer and Communication Sciences, EPFL Lausanne, Switzerland.
- 25/03/2010 Xerox Research Centre Europe, Grenoble, France.
- 08/03/2010 School of Computer Science at the University of Birmingham, UK.
- 10/02/2010 DISI, University of Genoa, Italy.
- 20/01/2010 Department of Mathematics, City University of Hong Kong.
- 16/12/2009 Meeting on Mathematical Statistics, Centre International de Rencontres Mathematiques,  
Luminy, France.
- 21/07/2009 Conference on Applied Inverse Problems (AIP 2009), Minisymposium on Regularization  
Approaches to Learning from High Dimensional Data, Vienna, Austria.
- 25/06/2009 University Joseph Fourier, Grenoble, France.
- 07/06/2009 Max Planck Institute for Biological Cybernetics, Tübingen, Germany.
- 18/03/2009 Oberwolfach Workshop on Sparse Recovery Problems in High Dimensions:  
Statistical Inference and Learning Theory, Oberwolfach, Germany.
- 16/07/2008 Universita’ degli Studi del Piemonte Orientale, Alessandria, Italy.
- 01/07/2008 Oberwolfach Workshop on Learning Theory and Approximation, Oberwolfach, Germany.
- 17/06/2008 Foundations of Computational Mathematics, Workshop on Learning Theory, Hong Kong.
- 05/02/2008 10th Bologna Winter School on Machine Learning and Computational Biology,  
Bologna, Italy (Invited Lecture).
- 29/01/2008 PASCAL Symposium meeting, Bled, Slovenia.
- 14/01/2008 Isaac Newton Institute for Mathematical Sciences, Cambridge, UK.
- 11/07/2007 22nd European Conference on Operational Research – Session on Higher Order  
Optimisation and Machine Learning, Prague, Czech Republic.
- 17/05/2007 Department of Engineering Mathematics, Bristol University, Bristol, UK.
- 21/05/2007 PASCAL ”Entente Cordiale” Workshop, Department of Computer Science, UCL, London, UK.
- 07/03/2007 Google Zurich, Switzerland.

- 29/03/2007 Dipartimento di Matematica Pura ed Applicata, Universita' of Padova, Italy.
- 30/01/2007 School of Computer Science and Information Systems, Birkbeck College, London, UK.
- 08/01/2007 DISI, University of Genoa, Italy.
- 29/06/2006 Workshop on Feature Selection in Data Mining, SAID Business School, Oxford, UK.
- 21/06/2006 Workshop on Analytic Methods for Learning Theory: Learning, Regularization and Approximation, Genoa, Italy.
- 13/12/2006 DSNN Seminar Series, Mathematics Department, King's College London, UK.
- 29/06/2006 Workshop on Feature Selection in Data Mining, SAID Business School, Oxford, UK.
- 21/06/2006 Workshop on Analytic Methods for Learning Theory: Learning, Regularization and Approximation, University of Genoa, Italy.
- 16/06/2005 Department of Computer Science, National University of Singapore.
- 31/05/2005 Department of Electrical Engineering, Katholieke Universiteit Leuven, Belgium.
- 07/04/2005 Toyota Technology Institute, University of Chicago, Chicago, IL, USA.
- 03/11/2004 School of Electronics and Computer Science, University of Southampton, UK.
- 14/10/2004 Department of Mathematics, London School of Economics, London, UK.
- 04/05/2004 Toyota Technology Institute, University of Chicago, Chicago, IL, USA.
- 22/04/2004 Department of Statistics, Boston University, Boston, MA, US.
- 21/04/2004 Department of Brain and Cognitive Sciences and AI Labs (Brains and Machines Series), Massachusetts Institute of Technology, Cambridge, MA, USA.
- 25/03/2004 Dagstuhl-Seminar 04131 on Geometric Properties from Incomplete Data, Dagstuhl, Germany.
- 22/09/2003 Department of Computer Science, University of Genoa, Italy.
- 18/09/2003 Microsoft Research, Cambridge, UK.
- 28/08/2003 Symposium on Systems Identification, Special Session on Statistical Learning Theory, Rotterdam, Netherlands.
- 08/08/2003 Machine Learning Summer School, Max Planck Institute for Biological Cybernetics, Tübingen, Germany.
- 30/06/2003 Department of Computational Science, National University of Singapore, Singapore.
- 21/12/2002 2-nd Int. Symp. on Computing Sciences, Zhongshan University, Guangzhou, China.
- 10/12/2002 Department of Mathematics, City University of Hong Kong, Hong Kong.
- 24/09/2002 7-th Course of the International School on Neural Nets Eduardo R. Caianiello, IIASS-Vietri sul Mare, Salerno, Italy (Invited Lecture).
- 19/09/2002 Department of Computer Science, University College London, London, UK.
- 27/08/2002 ICANN Workshop on Advances on Kernel Methods for Signal Processing, Madrid, Spain.
- 11/07/2002 NATO ASI on Learning Theory and Practice (LTP 2002), Leuven, Belgium (Invited Lecture).
- 31/05/2002 14-th Italian Workshop on Neural Networks (WIRN'02), Vietri sul Mare, Salerno.
- 12/12/2001 Department of Statistics, Boston University, Boston, MA, USA.
- 07/12/2001 NIPS Workshop on New Directions in Kernel-Based Learning Methods, Whistler, Canada.
- 27/03/2001 Hong Kong University of Science and Technology, Hong Kong.
- 25/01/2001 RIKEN, Brain Sciences Institute, Tokyo, Japan.
- 16/12/2000 International joint meeting of the American Mathematical Society and Hong Kong Mathematical Society, Special Session on The Mathematics of Learning Theory, Hong Kong.
- 01/11/2000 Department of Mathematics, City University of Hong Kong, Hong Kong.
- 26/06/2000 AT&T Research Labs, Florham Park, NJ, USA.
- 18/05/2000 Department of Information Engineering, University of Siena, Italy.
- 03/04/2000 Department of Computer Science and Operations Research, University of Montreal, Canada.
- 23/03/2000 AT&T Research Labs, RedBank, NJ, USA.

### Enabling Activities at UCL

- 2013– Director of Research, Department of Computer Science, UCL.
- 2008 Faculty Recruiting Committee, Department of Statistics, UCL.
- 2006– Faculty Recruiting Committee, Department of Computer Science, UCL.
- 2003–2005 Teaching Support Coordinator, Department of Computer Science, UCL.

## Academic Supervision at UCL

### PhD Students

October 2014–: Dimitris Stamos (first supervisor). Research topic on “Online Learning and Latent Models”.

October 2012–: Julien Bohné (first supervisor). Research topic on “Metric Learning and Biometrics”.

October 2012–: Andrew McDonald (first supervisor). Research topic on “Time Series Analysis and Sparsity Regularization”.

October 2010–June 2014: Bernardino Romera-Paredes (first supervisor). Research topic on “Multi-task Learning and Affective Computing” (now Postdoc in the Engineering Department, Oxford University).

October 2008–2012: Jean Morales (first supervisor). Thesis entitled “Structured Sparsity with Convex Penalty Functions” (now at Reale Mutua Assicurazioni, Torino).

October 2007–2009: Guy Lever (second supervisor). Thesis entitled “Exploiting Structure Dened by Data in Machine Learning: Some New Analyses”.

October 2006–2008: Sergio Rojas Galeano (second supervisor). Thesis entitled “Learning on Large Graphs Efficiently Using Online Prediction Algorithms”.

October 2004–2007: Andreas Argyriou (first supervisor). Thesis entitled “Learning to Integrate Data from Different Sources and Tasks” (now Research Assistant Professor at TTI-Chicago).

October 2003–2007: Lisa Wainer (first supervisor). Thesis entitled “Online Graph-based Learning for Classification” (now Senior Researcher at UCL Jill Dando Institute of Crime Science).

October 2003–2006: Ching Wai Tan (second supervisor). Thesis entitled “Machine learning methods for protein folding prediction”.

### Postdocs

May 2014–: David Martínez.

May 2013–April 2014: Huyen Do (now at NASA’s Ames Research Center, USA).

September 2010–2012: Luca Baldassarre (now at EPFL, Switzerland).

February 2007–August 2009: Andreas Argyriou (now Research Assistant Professor at TTI-Chicago).

June 2007–December 2010: Stefano Lise (second Supervisor).

September 2005–April 2007: Yiming Ying (now Associate Professor at SUNY Albany, USA).

### Academic Visitors

November 2012–February 2013: David Martínez (PhD Student, University of A Coruña).

October 2011–March 2012: Alessandra Staglianó (PhD Student, University of Genoa).

February–April 2009: Luca Baldassarre (PhD Student, University of Genoa).

June–September 2006: Jaisiel Madrid-Sánchez (PhD Student, University Carlos III of Madrid).

January–February 2006: Charles Micchelli (Distinguished Professor, Department of Mathematics and Statistics, SUNY Albany).

October 2003–April 2004: Sauro Menchetti (PhD Student, University of Florence).

March 2009: Dr. Taiji Suzuki (Researcher, The University of Tokyo).

### Others

Supervisor of 37 MSc students, Department of Computer Science, UCL (2003–2014).

## Teaching Activity

### Dept of Computer Science, UCL

Graduate and 3rd year course entitled “Supervised Learning”, Fall 2010–2014.

Graduate and 3rd year course entitled “Mathematical Methods for Machine Learning”, Fall 2009–2014.

Graduate and 4th year course entitled “Advanced Topics in Machine Learning”, Spring 2010 and 2011.  
 Graduate and 4th year course entitled “Advanced Topics in Machine Learning”, Spring 2005 and 2006.  
 Graduate and 3rd year course entitled “Supervised Learning”, Fall 2005.  
 MScCS course entitled “Fundamentals of Mathematics”, Fall 2005 (10 lectures).  
 Graduate and 3rd year course entitled “Information Theory”, Fall 2003 and 2004.

### **Elsewhere**

Master Course entitled “Advanced Machine Learning”, Ecole Polytechnique, University Paris-Saclay, March 2015 (12 lectures).  
 PhD course entitled “Kernel-based Methods” University Carlos III of Madrid, September 2002 (12 lectures).  
 PhD course entitled “Elements of Statistical Learning”, University of Florence, Spring 2002 (20 lectures).  
 3rd year course entitled “Introduction to Machine Learning”, University of Siena, Spring 2002 (24 lectures).  
 PhD course entitled “Statistical Learning Theory”, City University of Hong Kong, February 2002 (10 lectures).  
 1st year course entitled “Fundamentals of Computer Science”, Univ. of Florence, Fall 2001 (40 lectures).  
 Teaching Assistant, “Graph Theory and Networks”, City University of Hong Kong, Spring 2001.  
 Teaching Assistant, “Theory of Learning: Classification and Regression”, MIT, Fall 1999.

### **PhD Committees**

#### **As External Examiner**

Zuo Zhen, Nanyang Technological University, Singapore, August 2015.  
 Néhémy Lim, Université d’Évry Val d’Essonne, France, April 2015.  
 Vu Ngoc Duy Luong, Department of Computing, Imperial College London, May 2014.  
 Furqan Aziz, Department of Computer Science, University of York, April 2014.  
 David Martínez Rego, Department of Computer Science, University of A Coruña, Spain, July 2013.  
 Sylvain Robbiano, Ecolé Doctorale Informatique, Université Pierre et Marie Curie, France, June 2013.  
 PhD School in Mathematics, University of Genova, Italy, April 2013.  
 Arash Afkanpour, University of Alberta, Canada, March 2013.  
 Émile Richard, École Normale Supérieure de Cachan, France, November 2012.  
 Rodolphe Jenatton, École Normale Supérieure, France, November 2011.  
 Nicola Rebagliati, University of Genoa, Italy, April 2010.  
 Luca Baldassarre, University of Genoa, Italy, March 2010.  
 Patrik Beck (MRes Thesis), University of Bristol, U.K., December 2009.  
 Laurent Jacob, École des Mines de Paris, France, November 2009.  
 Sofia Mosci, University of Genoa, Italy, April 2009.  
 Giovanni Cavallanti, University of Milan, Italy, February 2009.  
 Alexei Pozdnoukhov, EPFL Lausanne, Switzerland, May 2006.  
 Kristiaan Pelckmans, Katholieke Universiteit Leuven, Belgium, May 2005.  
 Francesco Camastra, University of Genoa, Italy, May 2004.

#### **As Internal Examiner at University of London**

Zhiyuan Shi, School of Electronic Engineering and Computer Science, Queen Mary, London, October 2015.  
 Chris Bracegirdle, Dept of Computer Science, UCL, October 2012.  
 Timothy Nugent, Dept of Computer Science, UCL, November 2010.  
 Tom Diethe, Dept of Computer Science, UCL, June 2010.  
 Matthew Fudge, Dept of Physics, UCL, September, 2009.  
 Zack Voulgaris, SCSIS Birkbeck College, March, 2009.  
 Simon Osindero, Gatsby Unit, UCL, April 2004.

## Publications

Statistics: h-index = 47, approximately 12,000 citations (source: *Google Scholar*, January 2016)

### Journal Articles

- [1] A. Maurer, B. Romera-Paredes, M. Pontil (Forthcoming) The benefit of multitask representation learning. *Journal of Machine Learning Research* (to appear).
- [2] McDonald, A.M., Pontil, M., Stamos, D. (Forthcoming). New perspectives on k-support and cluster norms. *Journal of Machine Learning Research*.
- [3] M. Herbster, S. Pasteris, M. Pontil. Predicting a switching sequence of graph labelings. *J. Machine Learning Research*, 16:2003–2022, 2015.
- [4] Montoya-Martinez, J., Artés-Rodriguez, A., Pontil, M., Hansen, L.K. (2014). A regularized matrix factorization approach to induce structured sparse-low-rank solutions in the EEG inverse problem. *EURASIP Journal on Advances in Signal Processing*, 1:1-13.
- [5] Micchelli, C.A., Morales, J.M., Pontil, M. (2013). Regularizers for structured sparsity. *Advances in Computational Mathematics*, 38(3):455-489.
- [6] Noulas, A., Scellato, S., Lambiotte, R., Pontil, M., Mascolo, C. (2012). A tale of many cities: universal patterns in human urban mobility. *PLoS One*, 7(5):e37027.
- [7] Maurer, M. and Pontil, M. (2012). Structured sparsity and generalization. *Journal of Machine Learning Research*, 13:671-690.
- [8] Jones, D.T., Buchan, D.W.A., Cozzetto, D., Pontil, M. (2012). PSICOV: precise structural contact prediction using sparse inverse covariance estimation on large multiple sequence alignments. *Bioinformatics*, 28(2):184-190.
- [9] Lounici, K., Pontil, M., Tsybakov, A.B., van de Geer, S. (2011). Oracle inequalities and optimal inference under group sparsity. *Annals of Statistics*, 39(4):2164-2204.
- [10] Lise, S., Buchan, D., Pontil, M., Jones, D.T. (2011) Predictions of hot spot residues at protein-protein interfaces using support vector machines. *PLoS One*, 6(2):e16774.
- [11] Maurer, A. and Pontil, M. (2010). K-dimensional coding schemes in Hilbert spaces. *IEEE Transactions on Information Theory*, 56(11):5839-5846.
- [12] Argyriou, A., Micchelli, C.A., Pontil, M. (2010). On spectral learning. *Journal of Machine Learning Research*, 11:935-953.
- [13] Lise, L., Archambeau, C., Pontil, M., Jones, D.T. (2009). Prediction of hot spot residues at protein-protein interfaces by combining machine learning and energy-based methods. *BMC Bioinformatics*, 10:365-382.
- [14] Argyriou, A., Micchelli, C.A., Pontil, M. (2009). When is there a representer theorem? Vector versus matrix regularizers. *Journal of Machine Learning Research*, 10:2507-2529.
- [15] Caponnetto, A., De Vito, E., Pontil, M. (2009). Entropy conditions for  $L_r$ -convergence of empirical processes. *Advances in Computational Mathematics*, 30(4):355-373.
- [16] Argyriou, A., Evgeniou, T., Pontil, M. (2008). Convex multi-task feature learning. *Machine Learning*, 73(3):243-272.
- [17] Caponnetto, A., Micchelli, C.A., Pontil, M., Ying, Y. (2008). Universal multi-task kernels. *Journal of Machine Learning Research*, 9:1615-1646.
- [18] Ying, Y. and Pontil, M. (2008). Online gradient descent learning algorithms. *Foundations of Computational Mathematics*, 8(5):561-596.
- [19] Evgeniou, T., Pontil, M., Toubia, O. (2007). A convex optimization approach to modeling heterogeneity in conjoint estimation. *Marketing Science*, 26:805-818.
- [20] Micchelli, C.A. and Pontil, M. (2007). Feature space perspectives for learning the kernel. *Machine Learning*, 66:297-319.
- [21] Costa, F., Frasconi, P., Menchetti, S., Pontil, M. (2005). Wide coverage natural language processing using kernel methods and neural networks for structured data. *Pattern Recognition Letters*, 26(12):1896-1906.
- [22] Elisseeff, A., Evgeniou, T., Pontil, M. (2005). Stability of randomized learning algorithms. *Journal of Machine Learning Research*, 6:55-79.



- [23] Evgeniou, T., Micchelli, C.A., Pontil, M. (2005). Learning multiple tasks with kernel methods. *Journal of Machine Learning Research*, 6:615-637.
- [24] Micchelli, C.A. and Pontil, M. (2005). Learning the kernel function via regularization. *Journal of Machine Learning Research*, 6:1099-1125.
- [25] Micchelli, C.A. and Pontil, M. (2005). On learning vector-valued functions. *Neural Computation*, 17(1):177-204.
- [26] Evgeniou, T., Pontil, M., Elisseeff, A. (2004). Leave-one-out error, stability, and generalization of voting combination of classifiers. *Machine Learning*, 55(1):71-97.
- [27] Passerini, A., Pontil, M., Frasconi, P. (2004). New results on error correcting output codes of kernel machines. *IEEE Trans. on Neural Networks*, 15(1):45-54.
- [28] Nakajima, C., Pontil, M., Heisele, B., Poggio, T. (2003). Full body person recognition. *Pattern Recognition*, 36:1997-2006.
- [29] Evgeniou, T., Pontil, M., Poggio, T., Papageorgiou, C. (2003). Image representations and feature selection for multimedia database search. *IEEE Trans. on Knowledge and Data Engineering*, 15(4):911-920.
- [30] Pontil, M. (2003). A note on different covering numbers in learning theory. *Journal of Complexity*, 19:665-671.
- [31] Pontil, M. (2003). Learning in reproducing kernel Hilbert spaces: a guide tour. *Bulletin of the Italian Artificial Intelligence Association – AI Notizie*, XVI(3):8-17.
- [32] Yao, Y., Marcialis, G., Pontil, M., Frasconi, P., Roli, F. (2003). Combining flat and structured representations for fingerprint classification with recursive neural networks and support vector machines. *Pattern Recognition*, 36(2):397-406.
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