

Université Laval
Québec (Qc), Canada

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Education

- **Ph.D. in Computer Science** 09/2009 – ...
Université Laval Québec, Canada
Thesis Topic: Generalizations of PAC-Bayesian theory to several learning frameworks.
Advisor: François Laviolette (Co-Advisor: Mario Marchand)
- **M.Sc. in Computer Science (Honour Roll)** 01/2007 – 04/2009
Université Laval Québec, Canada
Thesis Topic: Learning algorithms inspired by the PAC-Bayes theory.
Advisor: François Laviolette (Co-Advisor: Mario Marchand)
- **B.Sc. in Computer Science** 09/2003 – 12/2006
Université Laval Québec, Canada
- **Certificate in Theater Studies** 09/2002 – 04/2004
Université Laval Québec, Canada

Other Experiences in Machine Learning

- **Visitor Research Student** 01/2010 – 04/2010
University of London (UCL), CSML Research Group London, UK
- **Machine Learning Summer School (Attendee)** 09/2009
University of Cambridge & Microsoft Research Cambridge, UK
- **Undergraduate Research Assistant** 05/2006 – 08/2006
Université Laval Québec, Canada

Teaching and Other Experiences in Computer Science

- **Teaching** 01/2012 – 04/2012
Université Laval Québec, Canada
Course: Mathematics for Computer Scientist
- **Teaching Assistant** 01/2004 – ...
Université Laval Québec, Canada
Courses: Data Structures, Algorithm Analysis, Mathematics for Computer Scientist
- **Software Developer Internship** 01/2005 – 08/2005
Cybertec St-Jean-Chrysostome, Canada
Real-time applications development in C++.

Publications○ **Articles in Peer-Reviewed International Conference**

Pascal Germain, Amaury Habrard, François Laviolette, and Emilie Morvant. A PAC-Bayesian Approach for Domain Adaptation with Specialization to Linear Classifiers. *International Conference on Machine Learning (ICML)*, 2013.

Pascal Germain, Sbastien Giguère, Jean-François Roy, Brice Ziraqiza, François Laviolette, and Claude-Guy Quimper. A Pseudo-Boolean Set Covering Machine. *International Conference on Principles and Practice of Constraint Programming (CP)*, 2012.

Pascal Germain, Alexandre Lacoste, François Laviolette, Mario Marchand, and Sara Shanian. A PAC-Bayes Sample-compression Approach to Kernel Methods. *International Conference on Machine Learning (ICML)*, 2011.

Pascal Germain, Alexandre Lacasse, François Laviolette, Mario Marchand, and Sara Shanian. From pac-bayes bounds to kl regularization. *Advances in Neural Information Processing Systems (NIPS)*, 2009.

Pascal Germain, Alexandre Lacasse, François Laviolette and Mario Marchand. PAC-Bayesian Learning of Linear Classifiers, *International Conference on Machine Learning (ICML)*, 2009.

Pascal Germain, Alexandre Lacasse, François Laviolette, and Mario Marchand. PAC-Bayes Risk Bounds for General Loss Functions, *Advances in Neural Information Processing Systems (NIPS)*, 2006.

Alexandre Lacasse, François Laviolette, Mario Marchand, Pascal Germain and Nicolas Usunier. PAC-Bayes Bounds for the Risk of the Majority Vote and the Variance of the Gibbs Classifier, *Advances in Neural Information Processing Systems 19 (NIPS)*, 2006.

○ **Articles in Peer-Reviewed International Workshop**

Pascal Germain, Amaury Habrard, François Laviolette, and Emilie Morvant. PAC-bayesian learning and domain adaptation. *Multi-Trade-offs in Machine Learning Workshop at NIPS 2012*, Spotlight/Poster Presentation, Not published, 2012.

Talks

PAC-Bayesian Learning and Domain Adaptation <i>Multi-Trade-offs in Machine Learning Workshop at NIPS 2012</i>	December 7, 2012 Lake Tahoe (Nevada), US
A Pseudo-Boolean Set Covering Machine <i>International Conference on Principles and Practice of Constraint Programming</i>	October 9, 2012 Québec, Canada
PAC-Bayes, Sample Compress & Kernel Methods <i>Foundations and New Trends of PAC Bayesian Learning Workshop</i>	March 22, 2010 London, UK
A Sample Compressed SVM <i>Centre for Computational Statistics and Machine Learning Seminars</i>	February 18, 2010 London, UK

Scholarships and Awards

NSERC Postgraduate Scholarship (PGS D)	2009
FQRNT Doctoral Research Scholarship (B2)	2009
André Dubuque Scholarship in Technological Development	2008
NSERC Postgraduate Scholarship (PGS M)	2007
NSERC Undergraduate Student Research Award (USRA)	2006

Services

Reviewer for the Journal of Machine Learning Research (JMLR)	2013
Reviewer for the Computing and Informatics Journal	2013

Technical Expertise

Linux, C/C++, Python, PHP, Scheme, MatLab, L^AT_EX, ...

Languages

French (Fluent) and English (Proficient).

Personal Interests

Theater, Cinema, Cycling, Photography.