

Mikaela KELLER

INRIA Lille-Nord Europe
Parc Scientifique de la Haute Borne
Parc Plaza - Bât A - Ave Halley
59650 Villeneuve d'Ascq
tel.: +33 3 59 57 78 62
email: mikaela[dot]keller[aroba]inria[dot]fr

Born: 11th July 1978 in Paris, France.

Citizenship: French

Education:

2002-2006: PhD in Machine Learning at EPFL (Ecole Polytechnique Fédérale de Lausanne, Switzerland), supervised by [Dr Samy Bengio](#).

2001-2002: DEA (Master) Stochastic and Statistic Modelisation, with the option Applied Statistics, at Université Paris XI, France

2000-2001: Maîtrise de Mathématiques Appliquées at Université Paris VI, France, completed at UQAM (Université du Québec A Montréal)

Professional & Scientific experience:

2011-: Associate Professor at Université de Lille 3 - INRIA Lille Nord Europe.

2007-2010: Research Fellow at Boston Children's Hospital Informatics Program [CHIP](#), Harvard-MIT Division of Health Sciences and Technology, in the [HealthMap](#) team.

2002-2006: Research Assistant at [IDIAP Research Institute](#), Martigny, Switzerland.

April-July 2002: Internship in Machine Learning at LIP6 (Computer Science Laboratory of Université Paris VI).

Teaching Experience:

December 2008: Tutorial and practical session in Natural Language Processing for syndromic surveillance during the 2008 conference of the International Society for Diseases Surveillance in Raleigh, NC, USA.

July 2007: Lectures and practical sessions at the [Bootcamp in Machine Learning](#) organized by PASCAL (European Network of Excellence) in Vilanova i la Geltrú, Catalunya, Spain.

2005-2006: Laboratory courses for lectures on [Statistical Machine Learning from Data](#) at the EPFL's doctoral school.

2001-2002: Laboratory courses on C++ programming, first year course, at IUT d'Orsay (Université Paris XI).

Main publications:

- M. Keller, CC. Freifeld, JS. Brownstein. [Automated vocabulary discovery for geo-parsing online epidemic intelligence](#). BMC Bioinformatics 2009, 10:385.
- M. Keller, M. Blench, H. Tolentino, CC. Freifeld, KD. Mandl, A. Mawudeku, G. Eysenbach, JS. Brownstein. [Early Experiences in Real-time Automated Global Infectious Disease Surveillance using Unstructured Event-based Reports](#). Emerging Infectious Diseases Vol. 15, No. 5, 2009.
- O. Glickman, I. Dagan, M. Keller, S. Bengio and W. Daelemans. [Investigating Lexical Substitution Scoring for Subtitle Generation](#). Proceedings of the 10th Conference on Computational Natural Language Learning (CoNLL-2006).
- S. Bengio, J. Mariéthoz and M. Keller. [The Expected Performance Curve](#). In International Conference on Machine Learning, ICML, Workshop on ROC Analysis in Machine Learning, 2005.
- M. Keller and S. Bengio. [A neural network for text representation](#). In International Conference on Artificial Neural Networks, ICANN, 2005.
- M. Keller, S. Bengio and S.Y. Wong. [Benchmarking Non-Parametric Statistical Tests](#). Advances in Neural Information Processing Systems, NIPS 18, 2005.
- M. Keller and S. Bengio. [Theme Topic Mixture Model: A Graphical Model For Document Representation](#). In: PASCAL Workshop - Learning Methods for Text Understanding and Mining, 26 - 29 January 2004, Grenoble, France.
- M. Keller. *PhD Dissertation: Machine Learning Approaches to Text Representation using Unlabeled Data*. IDIAP-RR-06-76, 2006.
- M. Keller and S. Bengio. *A Multi-Task Learning Approach to Document Representation using Unlabeled Data*. IDIAP-RR-06-44, 2006.

Programming Language Knowledge:

- C, C++, perl, python, php, Pascal, MySQL.
- statistical softwares : Splus/R.

Languages:

- French, Spanish, English.