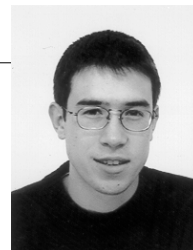


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Researcher in Machine Learning

Education

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- 10/2003 - 06/2008** **Ecole Polytechnique Fédérale de Lausanne (EPFL)**, Switzerland
Doctoral Studies (PhD) in Machine Learning
Supervised by Samy Bengio.
- 09/2002 - 09/2003** **Nice Sophia Antipolis University**, France
Diplôme d'Etudes Approfondies (M. Sc) Network and Distributed Systems
Graduated with Mention Bien (among 10% best students).
- 03/2002 - 09/2003** **Eurecom Institute**, Sophia Antipolis, France
Postgraduate Studies in Multimedia Communications
Specialization in Speech Processing with Christian Wellekens
Graduated with Hitachi Distinction (Best project award).
- 09/2000 - 03/2002** **ENST Bretagne**, Brest, France
Bachelor of Telecommunications Engineering
Graduated with rank 19 out of 214.

Professional Experience

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- 06/2008 -** **NEC Labs America**, Machine Learning Department, USA
Research Scientist: Deep Learning & Application to Computer Vision, Latent Semantic Ranking Models
Supervised by Léon Bottou.
- 06/2007 - 12/2007** **Google Inc.**, Internet Search and Online Advertising, USA
Research Intern: Machine Learning for Image Search
Supervised by Samy Bengio.
- 03/2003 - 05/2008** **IDIAP Research Institute**, Switzerland
Research Assistant: Machine Learning for Information Retrieval
Supervised by Hervé Bourlard and Alessandro Vinciarelli.
- 06/2002 - 09/2002** **Sillogic SA**, IT Service Consultancy, France
Intern: Research on Speaker Identification for Embedded Applications
Supervised by Eric Bréhault.

Technical Knowledge

Machine Learning	Neural Networks, Kernel Machines, Boosting
Multimedia	Speech Processing, Computer Vision, Information Retrieval Systems
Telecom. & Networks	Signal Processing, IP Networks and Internet Protocols
Computer Sc.	C/C++, Lua, Python, Perl, Unix Shell, Visual Basic

Book Chapters

- [1] D. Grangier, J. Keshet, and S. Bengio. Discriminative keyword spotting. In J. Keshet and S. Bengio, editors, *Automatic Speech and Speaker Recognition: Large Margin and Kernel Methods*. Wiley, 2009.

Journal Articles

- [2] B. Bai, J. Weston, D. Grangier, R. Collobert, Y. Qi, K. Sadamasa, O. Chapelle, and K. Weinberger. Learning to rank with (a lot of) word features. *Information Retrieval – Special Issue on Learning to Rank*, 2009.
- [3] J. Keshet, D. Grangier, and S. Bengio. Discriminative keyword spotting. *Speech Communication*, 2008.
- [4] D. Grangier and S. Bengio. A discriminative kernel-based model to rank images from text queries. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2008.

Conference Proceedings

- [5] B. Bai, J. Weston, D. Grangier, R. Collobert, K. Sadamasa, Y. Qi, C. Cortes, and M. Mohri. Polynomial semantic indexing. In *Advances in Neural Information Processing Systems (NIPS)*, 2009.
- [6] B. Bai, J. Weston, D. Grangier, R. Collobert, Y. Qi, K. Sadamasa, O. Chapelle, and K. Weinberger. Supervised semantic indexing. In *ACM Conference on Information and Knowledge Management (CIKM)*, 2009.
- [7] B. Bai, J. Weston, R. Collobert, and D. Grangier. Supervised semantic indexing. In *European Conference on Information Retrieval (ECIR)*, 2009.
- [8] D. Grangier and S. Bengio. Learning the inter-frame distance for discriminative template-based keyword detection. In *International Conference on Speech Processing (INTERSPEECH)*, 2007.
- [9] J. Keshet, D. Grangier, and S. Bengio. Discriminative keyword spotting. In *International Workshop on Non-Linear Speech Processing (NOLISP)*, 2007.
- [10] D. Grangier and S. Bengio. A neural network to retrieve images from text queries. In *International Conference on Artificial Neural Networks (ICANN)*, 2006.
- [11] D. Grangier, F. Monay, and S. Bengio. Learning to retrieve images from text queries with a discriminative model. In *International Workshop on Adaptive Multimedia Retrieval (AMR)*, 2006.
- [12] D. Grangier, F. Monay, and S. Bengio. A discriminative approach for the retrieval of images from text queries. In *European Conference on Machine Learning (ECML)*, 2006.
- [13] D. Grangier and S. Bengio. Exploiting hyperlinks to learn a retrieval model. In *NIPS Workshop on Learning to Rank*, 2005.
- [14] D. Grangier and S. Bengio. Inferring document similarity from hyperlinks. In *ACM Conference on Information and Knowledge Management (CIKM)*, 2005.
- [15] D. Grangier and A. Vinciarelli. Effect of segmentation method on video retrieval performance. In *IEEE International Conference on Multimedia and Expo (ICME)*, 2005.

Technical Reports, Master Theses and Ph.D. Theses

- [16] D. Grangier. *Machine Learning for Information Retrieval*. PhD thesis, Ecole Polytechnique Federale de Lausanne, 2008.
- [17] D. Grangier and S. Bengio. A discriminative decoder for the recognition of phoneme sequences. IDIAP-RR 67, IDIAP, 2005.
- [18] D. Grangier and A. Vinciarelli. Effect of recognition errors on text clustering. IDIAP-RR 82, IDIAP, 2004.
- [19] David Grangier. Information retrieval on noisy text. Master's thesis, Eurecom Institute, 2003. Also available as IDIAP-COM 03-08.

Honors

IDIAP Paper Award	Best IDIAP Student Paper of the Year 2006
ECML Paper Award	Google student paper award at European Conference on Machine Learning (2006)
ICANN Paper Award	European Neural Network Society student paper award at the International Conference on Neural Network (2006)
Hitachi Prize	Best Eurecom Master Thesis project (2003)

Other Activities

Reviewer	Reviewer for Conferences & Journals like NIPS, ICML, CVPR, IEEE-TPAMI...
Workshop Organizer	NIPS'06 – Learning to Compare Examples – http://david.grangier.info/lce/