

Nikhil Garg

PhD Candidate

Department of Computer Science

University of Geneva

+41 788347564

✉ nikhil.garg@unige.ch

<http://cui.unige.ch/~garg>

<https://github.com/nikgarg>

Research Interests

Machine Learning, Natural Language Processing, Information Retrieval

Education

2009 – Present **PhD candidate in Computer Science**

Université de Genève, Geneva, Switzerland

Computational Linguistics & Computational Learning Group

Advisor: Prof. James Henderson

2007 – 2009 **Master of Science in Computer Science**

Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland

GPA: 5.7/6

2002 – 2006 **Bachelor of Technology in Computer Science and Engineering**

Indian Institute of Technology - Delhi, Delhi, India

GPA: 8.5/10

Work Experience

Jun 06 – May 07 **Yahoo! Research & Development**, Bangalore, India

Software Engineer in the Image Search group

○ relevance ranking of search results based on metadata, click logs, etc.

○ filtering adult content

Internships

Feb 09 – Aug 09 **Idiap Research Institute**, Martigny, Switzerland

Master thesis under the supervision of Dr. Daniel Gatica-Perez and Prof. Hervé Bourlard

Worked on content-based automatic image annotation & retrieval, taking measures to address noisy and limited tagging problems in web image repositories such as Flickr.

- Aug 08 – Jan 09 **International Computer Science Institute**, Berkeley, USA
Visiting student in Speech group
Worked on automatic summarization of meeting transcripts.
- Summer 2007 **Ecole Polytechnique Fédérale de Lausanne**, Lausanne, Switzerland
Research Assistant under Dr. Boi Faltings in AI Lab
Worked on an extension of a distributed constraint optimization algorithm, DPOP, using cryptography to preserve privacy of the participants.
- Summer 2005 **IBM India Software Labs**, Pune, India
IBM Extreme Blue Internship
Worked on the communication mechanism for IBM Workplace Client Technology.

Teaching Assistantship

- Spring 2011 *Structures de Données* (Data Structures).
Fall 2010 *Méthodes empiriques et langages de script* (Empirical Methods & Scripting Languages).
Fall 2009 *Systèmes Informatiques* (Operating Systems).

Publications

- 2011 Nikhil Garg and James Henderson, "Temporal Restricted Boltzmann Machines for Dependency Parsing", *ACL 2011, short papers*.
- 2009 Nikhil Garg and Daniel Gatica-Perez, "Tagging and Retrieving Images with Co-Occurrence Models: from Corel to Flickr", *Workshop on Large-Scale Multimedia Retrieval and Mining in conjunction with ACM Multimedia 2009*
- 2009 Nikhil Garg, Benoit Favre, Korbinian Reidhammer and Dilek Hakkani-Tür, "Cluster-Rank: A graph based method for meeting summarization", *Interspeech 2009*
- 2008 Nikhil Garg and Ingmar Weber, "Personalized, interactive tag recommendation for Flickr", *ACM International Conference on Recommender Systems, 2008*
- 2008 Nikhil Garg and Ingmar Weber, "Personalized tag suggestion for Flickr", *World Wide Web Conference, 2008*
- 2007 Nikhil Garg and Bipin Suresh, "Predicting and ranking search query results based on click logs", *US Patent filed in Dec 07*

Personal projects

- Summer 2010 **PicGuess** - <http://picguess.com>
A visual quiz asking users to guess the location of a photo
Implemented using python, django, java, mysql, Flickr API, Android SDK.

Programming skills

Python, C++, Matlab, SML, Linux shell scripting