

Romain Deveaud

Education

- 2010-2013 **Ph.D. student**, *University of Avignon - LIA*, Avignon, France.
Generative models of topical context for Information Retrieval. Supervised by Eric SanJuan and Patrice Bellot. Collaboration with Florian Boudin (University of Nantes) for automatic summarization aspects.
- 2010 **M.Sc. in Computer Science**, *University of Avignon*, Avignon, France.
- 2008 **B.Sc. in Computer Science**, *University of Avignon*, Avignon, France.
- 2007 **DUT in Computer Science**, *University of Aix-Marseille*, Aix-en-Provence, France.
French two-year diploma. Software engineering specialization.

Professional experience

- 2013-current **Research Assistant**, *University of Glasgow*, Glasgow, UK.
Postdoc in the Terrier team, working on the european project SMART FP7. Supervised by Iadh Ounis and Craig Macdonald.
- 2009-2010 **Web developer**, *University of Avignon*, Avignon.
Development and promotion of open-source web applications dedicated to collaborative work. Master thesis (*Open-Source software at the University of Avignon*).
- 2009 **Software developer**, *University of Avignon - LIA*, Avignon.
Part of the European research project LUNA FP7 (<http://www.ist-luna.eu>). Improved a visualization software which displays finite-state automata outputs of an automatic speech recognition system (C++, GTKmm).

Computer skills

Programming languages	Ruby, Python, R, Java, PHP, JavaScript, C/C++	Operating systems	Linux, Unix
Databases	MySQL, PostgreSQL, PL/SQL, NoSQL (MongoDB)	Others	Git, Subversion, L ^A T _E X
Frameworks and ORMs	Symfony, Ruby on Rails, JQuery, Doctrine, Propel, ActiveRecord		

Selected Papers

Romain Deveaud, Eric SanJuan, and Patrice Bellot. Are Semantically Coherent Topic Models Useful for Information Retrieval? In *Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers)*, Sofia, Bulgaria, August 4-9, ACL, 2013.

Romain Deveaud, Eric SanJuan, and Patrice Bellot. Estimating Topical Context by Diverging from External Resources. In *Proceedings of the 36th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Dublin, Ireland, July 28 - August 1st*, SIGIR, 2013. Acceptance rate: 35%.

Romain Deveaud, Eric SanJuan, and Patrice Bellot. Unsupervised Latent Concept Modeling to Identify Query Facets. In *Proceedings of the Tenth International Conference in the RIAO series, Lisbon, Portugal, May 22-24*, OAIR, 2013. Acceptance rate: 22.5%.

Romain Deveaud, Eric SanJuan, and Patrice Bellot. Social Recommendation and External Resources for Book Search. In *Focused Retrieval of Content and Structure - 10th International Workshop of the Initiative for the Evaluation of XML Retrieval, Saarbrücken, Germany, December 12-14*, INEX, 2011.

Teaching experience

Internet architectures, *MSc*, 85.5h, PW.

PHP, web development, MVC, JavaScript frontend.

Indexing and Information Retrieval Models, *MSc*, 13h, Lecture.

Distributed indexing, vector-space model, IR evaluation, relevance feedback.

Indexing and Information Retrieval Models, *MSc*, 15h, PW.

Building an indexer and a search engine supporting a custom query language.

Software architectures, *MSc*, 18h, PW.

Servlet, Applet, JSP, J2EE.

Object-Oriented Programming, *BSc*, 16.5h, PW.

Java programming.

Advanced algorithmic, *MSc*, 18h PW, Java.

Implementation of graph path processing algorithms.

MSc students supervising, *MSc*, 15h.

Service and administration

2013 PhD students representative at the doctoral administration board of University of Avignon.

2010-2013 Secretary of NP-LIA, an association which financially sponsored CORIA 2011 and EACL 2012.

Reviewer for

- ECIR 2014

- RJCRI 2013, 2014

- RECITAL 2013

- INEX 2010, 2011

Member of the organizing committee for

- CORIA 2011

- EACL 2012

Awards

Best paper award, *Quantification et identification des concepts implicites d'une requête*, CORIA 2013, Main author.

"Best hope" special award, *Interrogations de moteurs de recherche par des requêtes formulées en langage naturel*, MajecSTIC 2009.

Complete List of Publications

Journals

Romain Deveaud and Florian Boudin. De quoi parle ce Tweet? Resumer Wikipédia pour contextualiser des microblogs. *Interaction Intelligence Information*, 2014. Accepted with minor revisions.

Romain Deveaud, Eric SanJuan, and Patrice Bellot. Accurate and Effective Latent Concept Modeling for Ad Hoc Information Retrieval. *Document Numérique*, 2014. Accepted with minor revisions.

Conferences

Romain Deveaud, Eric SanJuan, and Patrice Bellot. Are Semantically Coherent Topic Models Useful for Information Retrieval? In *Proceedings of the 51st Annual Meeting of the Association for Computational*

Linguistics (Volume 2: Short Papers), Sofia, Bulgaria, August 4-9, ACL, 2013. Acceptance rate: 24%.

Romain Deveaud, Eric SanJuan, and Patrice Bellot. Estimating Topical Context by Diverging from External Resources. In *Proceedings of the 36th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Dublin, Ireland, July 28 - August 1st*, SIGIR, 2013. Acceptance rate: 35%.

Romain Deveaud, Eric SanJuan, and Patrice Bellot. Unsupervised Latent Concept Modeling to Identify Query Facets. In *Proceedings of the Tenth International Conference in the RIAO series, Lisbon, Portugal, May 22-24*, OAIR, 2013. Acceptance rate: 22.5%.

Ludovic Bonnefoy, Vincent Bouvier, **Romain Deveaud**, and Patrice Bellot. Vers une détection en temps réel de documents web centrés sur une entité donnée. In *Actes de la 10e Conférence en Recherche d'Information et Applications, Neuchâtel, Switzerland, 3-5 Avril*, CORIA, 2013. Acceptance rate: 20%.

Romain Deveaud, Ludovic Bonnefoy, and Patrice Bellot. Quantification et identification des concepts implicites d'une requête. In *Actes de la 10e Conférence en Recherche d'Information et Applications, Neuchâtel, Switzerland, 3-5 Avril*, CORIA, 2013. Acceptance rate: 20%.

Romain Deveaud and Florian Boudin. Contextualisation automatique de tweets à partir de wikipédia. In *Actes de la 10e Conférence en Recherche d'Information et Applications, Neuchâtel, Switzerland, 3-5 Avril*, CORIA, 2013. Acceptance rate: 20%.

Romain Deveaud and Patrice Bellot. Combinaison de ressources générales pour une contextualisation implicite de requêtes. In *Actes de la 19e conférence sur le Traitement Automatique des Langues Naturelles, Grenoble, France, 4-7 Juin*, TALN, 2012.

Romain Deveaud, Eric SanJuan, and Patrice Bellot. Ajout d'informations contextuelles issues de Wikipédia pour la recherche de passages. In *Actes de la 18e conférence sur le Traitement Automatique des Langues Naturelles, Montpellier, France, 27 Juin - 1^{er} Juillet*, TALN, 2011.

Romain Deveaud, Florian Boudin, Eric SanJuan, and Patrice Bellot. Correction de césures et enrichissement de requêtes pour la recherche de livres. In *Actes de la 8e Conférence en Recherche d'Information et Applications, Avignon, France, 16-18 Mars*, CORIA, 2011.

Ludovic Bonnefoy, **Romain Deveaud**, and Eric Charton. Interrogations de moteurs de recherche par des requêtes formulées en langage naturel. In *Actes de la 8e Manifestation des Jeunes Chercheurs francophones en Sciences et Technologies de l'Information et de la Communication, Avignon, France, 16-18 Novembre*, MajecSTIC, 2009.

Workshops

Romain Deveaud, M-Dyaa Albakour, Craig Macdonald, and Iadh Ounis. Challenges in Recommending Venues within Smart Cities. In *Proceedings of the ECIR 2014 Workshop on Information Access in Smart Cities*, i-ASC, 2014.

Romain Deveaud and Florian Boudin. Effective Tweet Contextualization with Hashtags Performance Prediction and Multi-Document Summarization. In *Proceedings of INEX*, 2013.

Romain Deveaud and Eric SanJuan. LIA at the NTCIR-10 INTENT Task. In *Proceedings of NTCIR*, 2013.

Romain Deveaud, Eric SanJuan, and Patrice Bellot. LIA at TREC 2012 Web Track : Unsupervised Search Concepts Identification from General Sources of Information. In *Proceedings of TREC*, 2012.

Ludovic Bonnefoy, **Romain Deveaud**, and Patrice Bellot. Do Social Information Help Book Search? In *Proceedings of INEX*, 2012.

Romain Deveaud and Florian Boudin. LIA/LINA at the INEX 2012 Tweet Contextualization track. In *Proceedings of INEX*, 2012.

Pierre Joulin, **Romain Deveaud**, Eric SanJuan-Ibekwe, Jean-Marc Francony, and Françoise Para. Design, implementation and experiment of a YeSQL Web Crawler. In *Proceedings of the SIGIR 2012 Workshop on Open Source Information Retrieval*, OSIR, 2012.

Romain Deveaud, Eric SanJuan, and Patrice Bellot. Social Recommendation and External Resources for Book Search. In *Proceedings of INEX*, pages 68–79, 2011.

Romain Deveaud, Eric SanJuan, and Patrice Bellot. LIA at TREC 2011 Web Track: Experiments on the Combination of Online Resources. In *Proceedings of TREC*, 2011.

Romain Deveaud, Florian Boudin, and Patrice Bellot. LIA at INEX 2010 Book Track. In *Proceedings of INEX*, pages 118–127, 2010.

Thesis

Romain Deveaud. Vers une représentation du contexte thématique en Recherche d'Information, 2013.

Languages

French **Native speaker**
English **Fluent**
Spanish **Learning**