

# Mohamed Reda Bouadjenek – Ph.D, Lecturer (Assistant Professor)

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## Contact

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## Interests

Information Retrieval, Biomedical Text Mining, Social Network Analysis, Machine Learning, Deep Learning, Recommender Systems, Databases, Data Quality, Data Analysis and Bioinformatics.

## Education

**University of Paris-Saclay, Versailles, France**  
**Ph.D.**, Computer Science (Dec. 2013)  
• Supervisors: Mokrane Bouzeghoub and Hakim Hacid  
• Research Field: *Information Retrieval and Machine Learning*

**University of Paris-Saclay, Versailles, France**  
**M.S.**, Computer Science (Sep. 2009)  
• Supervisors: Mokrane Bouzeghoub  
• Major: *Databases and Distributed Information Systems*

**University of Sciences and Technology Houari Boumediene, Algiers, Algeria**  
**B.S.**, Computer Science (Jun. 2008)  
• Major: *Databases and Information Systems*

## Employment

<b>Deakin University, Geelong, VIC, Australia.</b> • <i>Lecturer (Assistant Professor)</i> , Applied Artificial Intelligence.	<b>Nov. 2019 – Present</b>
<b>University of Toronto, Toronto, ON, Canada.</b> • <i>Research Fellow</i> . Supervisor: Scott Sanner.	<b>Nov. 2017 – Oct. 2019</b>
<b>The University of Melbourne, Melbourne, VIC, Australia.</b> • <i>Research Fellow</i> . Supervisor: Karin Verspoor and Justin Zobel.	<b>Sep. 2015 – Sep. 2017</b>
<b>Oregon State University, Corvallis, OR, USA.</b> • <i>Visiting Researcher</i> . Supervisor: Scott Sanner.	<b>Jul. 2015 – Aug. 2015</b>
<b>INRIA, Montpellier, France.</b> • <i>Postdoc Researcher</i> . Supervisors: Esther Pacitti and Patrick Valduriez.	<b>Jan. 2014 – Jul. 2015</b>
<b>UCSB, Santa Barbara, CA, USA.</b> • <i>Visiting Researcher</i> . Supervisor: Amr El Abbadi.	<b>Nov. 2014 – Dec. 2014</b>
<b>NICTA, Canberra, ACT, Australia.</b> • <i>Visiting Researcher</i> . Supervisor: Scott Sanner.	<b>Aug. 2013 – Dec. 2013</b>
<b>Alcatel-Lucent Bell Labs, Nozay, France.</b> • <i>Research Engineer</i> . Supervisor: Hakim Hacid.	<b>Mar. 2010 – Mar. 2013</b>
<b>PRiSM Laboratory, University of Paris-Saclay, Versailles, France.</b> • <i>Master Student Internship</i> . Supervisor: Mokrane Bouzeghoub.	<b>Apr. 2009 – Sep. 2009</b>

## Selected Publications

- M. R. Bouadjenek, S. Sanner, and Y. Du. **Relevance- and Interface-driven Clustering for Visual Information Retrieval**. Accepted at Journal of Information Systems 2020.
- B. Zhang, S. Sanner, M. R. Bouadjenek, and S. Gupta. **Bayesian Networks for Data Integration in the Absence of Foreign Keys**. IEEE Transactions on Knowledge and Data Engineering,

vol. 32, no. 4, pp. 803-808, 1 April. 2020. <http://dx.doi.org/10.1109/TKDE.2019.2940019>.

- S. Gupta, D. Ko, M.R. Bouadjenek, S. Sanner, A. Chong, P. Austin, M. Koh. **Evaluation of Machine Learning Algorithms for Predicting Readmission after Acute Myocardial Infarction Using Routinely Collected Clinical Data Canadian Journal of Cardiology.** Journal of Canadian Journal of Cardiology. Volume 36, Issue 6, June 2020, Pages 878-885, ISSN 0828-282X. <https://doi.org/10.1016/j.cjca.2019.10.023>.
- M. R. Bouadjenek, J. Zobel, and K. Verspoor. **Automated Assessment of Biological Database Assertions Using the Scientific Literature.** BMC Bioinformatics 2019 20:216.
- Y. Wang, G. Wu, M.R. Bouadjenek, and S. Sanner. **A Novel Regularizer for Temporally Stable Learning with an Application to Twitter Topic Classification.** Proceedings of the 2019 SIAM International Conference on Data Mining, pp. 217-225, Calgary, Alberta.
- M. R. Bouadjenek, H. Hacid, M. Bouzeghoub. **Personalized Social Query Expansion Using Social Annotations.** Transactions on Large-Scale Data- and Knowledge-Centered Systems XL. Lecture Notes in Computer Science, vol 11360, 2019. Springer, Berlin, Heidelberg. 1-25. [https://doi.org/10.1007/978-3-662-58664-8\\_1](https://doi.org/10.1007/978-3-662-58664-8_1).
- G. Wu, M. R. Bouadjenek, and S. Sanner. **One-Class Collaborative Filtering with the Queryable Variational Autoencode.** The 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval, SIGIR 2019, Pages 921–924.
- M. R. Bouadjenek, K. Verspoor, and J. Zobel. **Automated Detection of Records in Biological Sequence Databases that are Inconsistent with the Literature.** Journal of Biomedical Informatics, July 2017, ISSN 1532-0464, <https://doi.org/10.1016/j.jbi.2017.06.015>.
- M. R. Bouadjenek, and S. Sanner. **Relevance-driven Clustering for Visual Information Retrieval on Twitter.** In Proceedings of the 4th ACM Conference on Human Information Interaction & Retrieval, CHIIR'19, pages 349-353, New York, NY, USA, 2019. ACM.
- M. R. Bouadjenek and K. Verspoor. **Multi-Field Query Expansion is Effective for Biomedical Dataset Retrieval.** Database: The Journal of Biological Databases and Curation (Oxford) 2017, 2017 (1): bax062, <https://doi.org/10.1093/database/bax062>.
- M. R. Bouadjenek, K. Verspoor, and J. Zobel. **Literature Consistency of Bioinformatics Sequence Databases is Effective for Assessing Record Quality.** Database (Oxford) 2017, 2017 (1): bax021, <https://doi.org/10.1093/database/bax021>.
- M. R. Bouadjenek, H. Hacid, M. Bouzeghoub, and A. Vakali. **PerSaDoR: Personalized Social Document Representation for Improving Web Search.** Journal of Information Sciences Volume 369, 10 November 2016, ISSN 0020-0255, <http://dx.doi.org/10.1016/j.ins.2016.07.046>.
- M. R. Bouadjenek, H. Hacid, M. Bouzeghoub. **Social Networks and Information Retrieval, How Are They Converging? A Survey, a Taxonomy and an Analysis of Social Information Retrieval Approaches and Platforms.** Journal of Information Systems Volume 56, March 2016, ISSN 0306-4379, <http://dx.doi.org/10.1016/j.is.2015.07.008>.
- M. R. Bouadjenek, S. Sanner, G. Ferraro. **A Study of Query Reformulation for Patent Prior Art Search with Partial Patent Applications.** In the Proceedings of the Fifteen International Conference on Artificial Intelligence and Law (ICAIL '15), pages 23-32.

## Skills

- **Operating Systems:** Windows 9X/XP/Vista/7, Linux, and MacOSX.
- **Programming Languages:** C, C++, C#, Pascal, Object Pascal, JAVA and XML.
- **Script Languages:** JavaScript, Bash, and Python.
- **Compilers:** GNU GCC, Borland Delphi, NetBeans, Eclipse and Microsoft Visual C++.
- **Databases:** SQL language, and practice of the SQL Server, MySQL, and PostgreSQL DBMSs.
- **Conception and Modeling:** UML, Merise, and E/R (entity-relation).
- **Frameworks and platforms:** Jung, Prefuse, PeerSim, Hadoop and Apache Lucene.

## Languages

- **English:** Fluent , **French:** Native language, **Arabic:** Native language.