

# 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

**Deakin University**, Geelong, Australia  
Graduate Certificate of Higher Education for Learning and Teaching (expected Jun. 2021)

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

## Selected Publications

- S. Lyu, A. Rana, S. Sanner, M.R. Bouadjenek, “**A Workflow Analysis of Context-driven Conversational Recommendation**”, In *Proceedings of The Web Conference (WWW)*, 2021.
- S. Gupta, A. Robels-Kelly, M.R. Bouadjenek, “**Feature Extraction Functions for Neural Logic Rule Learning**”, In *Structural, Syntactic, and Statistical Pattern Recognition (S+SSPR)*, 2020.
- M. R. Bouadjenek, S. Sanner, Y. Du, “**Relevance- and Interface-driven Clustering for Visual Information Retrieval**”, In *Information Systems*, Vol 94, 101592, 2020.
- B. Zhang, S. Sanner, M. R. Bouadjenek, S. Gupta, “**Bayesian Networks for Data Integration in the Absence of Foreign Keys**”, In *IEEE Transactions on Knowledge and Data Engineering*, Vol 32, 803-808, 2020.
- 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**”, In *Canadian Journal of Cardiology*, Vol 36, 878-885, 2020.
- M. R. Bouadjenek, J. Zobel, K. Verspoor, “**Automated Assessment of Biological Database Assertions Using the Scientific Literature**”, In *BMC Bioinformatics*, Vol 20, 216, 2019.
- Y. Wang, G. Wu, M.R. Bouadjenek, S. Sanner, “**A Novel Regularizer for Temporally Stable Learning with an Application to Twitter Topic Classification**”, In *The SIAM International Conference on Data Mining (SDM)*, 217-225, 2019.
- M. R. Bouadjenek, H. Hacid, M. Bouzeghoub, “**Personalized Social Query Expansion Using Social Annotations**”, In *Transactions on Large-Scale Data- and Knowledge-Centered Systems*, Vol 11360, 1-25, 2019.
- G. Wu, M. R. Bouadjenek, S. Sanner. **One-Class Collaborative Filtering with the Queryable Variational Autoencode**. In *The 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR)*, 921–924, 2019.
- M. R. Bouadjenek, K. Verspoor, J. Zobel, “**Automated Detection of Records in Biological Sequence Databases that are Inconsistent with the Literature**”, In *Journal of Biomedical Informatics*, Vol 71, 229-240, 2017.
- M. R. Bouadjenek, S. Sanner, “**Relevance-driven Clustering for Visual Information Retrieval on Twitter**”, In *The 4th ACM Conference on Human Information Interaction & Retrieval (CHIIR)*, 349-353, 2019.
- M. R. Bouadjenek and K. Verspoor, “**Multi-Field Query Expansion is Effective for Biomedical Dataset Retrieval**”, In *Database: The Journal of Biological Databases and Curation (Oxford)*, Vol 2017, bax062, 2017.
- M. R. Bouadjenek, K. Verspoor, J. Zobel. “**Literature Consistency of Bioinformatics Sequence Databases is Effective for Assessing Record Quality**”, In *Database: The Journal of Biological Databases and Curation (Oxford)*, Vol 2017, bax021, 2017.
- Z. Iman, S. Sanner, M. R. Bouadjenek, L. Xie. “**A Longitudinal Study of Topic Classification on Twitter**”, In *The 11th International AAAI Conference on Web and Social Media (ICWSM)*, 552-555, 2017.
- M. R. Bouadjenek, H. Hacid, M. Bouzeghoub, A. Vakali. “**PerSaDoR: Personalized Social Document Representation for Improving Web Search**”, In *Information Sciences*, Vol 369, 614-633, 2016.
- 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**”, In *Information Systems*, Vol 56, 1-18, 2016.
- M. R. Bouadjenek, S. Sanner, G. Ferraro. “**A Study of Query Reformulation for Patent Prior Art Search with Partial Patent Applications**”, In *The 15th International Conference on Artificial Intelligence and Law (ICAIL)*, 23-32, 2015.
- M. R. Bouadjenek, H. Hacid, M. Bouzeghoub, and A. Vakali. “**Using Social Annotations to Enhance Document Representation for Personalized Search**”, In *The 36th International ACM SIGIR conference on Research and development in information retrieval (SIGIR)*, 1049–1052, 2013.
- M. R. Bouadjenek, H. Hacid, M. Bouzeghoub. “**SoPRA: A New Social Personalized Ranking Function for Improving Web Search**”, In *The 36th International ACM SIGIR conference on Research and development in information retrieval (SIGIR)*, 861–864, 2013.

## Languages

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