Mossaab Bagdouri
Résumé
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Research Interests

Information Retrieval, **Machine Learning**, **Natural Language Processing**.

Education

2017	**Ph.D. in Computer Science**	**University of Maryland at College Park**
2013	Master's in Computer Science	University of Maryland at College Park
2011	Master's in Computer Science	University of Colorado Boulder
2007	Ingénieur d'Etat (CS)	ENSIAS - Rabat, Morocco
2004	Undergraduate Degree	Classes Préparatoire aux Grandes Ecoles d'Ingénieurs - Tangier, Morocco

Professional Experiences

2017 - Present   Senior Data Scientist   @WalmartLabs, Sunnyvale, CA

➤ Deep query understanding for e-commerce.

2011 - 2017   Research Assistant   CLIP Lab, UMIACS, University of Maryland, College Park

➤ Thesis topic: Cross-platform question answering in social networking services.

➤ Optimal allocation of annotated data for training and testing certified text classifiers.

➤ Finding professionals in microblogging services and analyzing their user behavior.

➤ Use of CLIR to answer non-factoid questions from multilingual social media.

2016 (4 months) **Internship   IBM TJ Watson Research Center**

➤ Deep neural networks for ranking user-generated answers to non-factoid questions. Tools: Keras.

2007 - 2009   Project Engineer   Maroc Telecom, Morocco

➤ Project management of offers and promotions for enterprise products.

➤ Integration of the Internet and Landline Information Systems (BSCS).

2007 (5 months) **Internship   SIS-Consultants, Morocco**

➤ Design and implementation of an E-gov web site for government tendering. Tools: JEE, JSF, MySQL.

Selected Project

➤ **A multilingual news aggregator for the Arab world**. The applications (Maghress.com and 6 others) crawl hundreds of online newspapers to get the latest news, classify and rank them before presenting the top stories on the main page (**120K+ daily unique visitors**). Tools: Java, Lucene, JSF, MySQL.

Fellowships and Awards

2016 - 2017	**IBM Ph.D.** Fellowship.	2013 - 2017	**SIGIR** Student Travel Grant x 4.
2016 - 2017	**Future Faculty** Fellowship, UMD.	2013 - 2016	**Goldhaber** Travel Grant, UMD x 2.
2009 - 2011	**Fulbright** Foreign Student Scholarship.	2011 - 2012	**Dean's** Fellowship, UMD.

Service

2013-2018	**Reviewer** for journals (CSUR, FnTIR, INTR, TWEB) and conferences (CHI, ICWSM, SIGIR).
2015	**Co-chair** of the 2015 Mid-Atlantic Student Colloquium on Speech, Language and Learning.

Publications

Papers in Refereed Conference Proceedings

1. **Bagdouri, Mossaab** and D. W. Oard (2017). Building bridges across social platforms: answering Twitter questions with Yahoo! Answers. In: *SIGIR*. Tokyo, Japan, pp.1181–1184.

2. Gao, N., **Mossaab Bagdouri**, and D. W. Oard (2016). Pearson rank: A head-weighted gap-sensitive score-based correlation coefficient. In: *SIGIR*. Pisa, Italy, pp.941–944.

3. **Bagdouri, Mossaab** (2016). Journalists and Twitter: A multidimensional quantitative description of usage patterns. In: *ICWSM*. Cologne, Germany, pp.22–31.

4. **Bagdouri, Mossaab** and D. W. Oard (2015). On predicting deletions of microblog posts. In: *CIKM*, pp.1707–1710.

5. **Bagdouri, Mossaab** and D. W. Oard (2015). Profession-based person search in microblogs: Using seed sets to find journalists. In: *CIKM*. Melbourne, Australia, pp.593–602.

6. **Bagdouri, Mossaab**, D. W. Oard, and V. Castelli (2014). CLIR for informal content in Arabic forum posts. In: *CIKM*. Shanghai, China, pp.1811–1814.

7. **Bagdouri, Mossaab**, W. Webber, D. D. Lewis, and D. W. Oard (2013). Towards minimizing the annotation cost of certified text classification. In: *CIKM*. San Fransisco, CA, USA, pp.933–936.

8. Webber, W., **Mossaab Bagdouri**, D. Lewis, and D. Oard (2013). Sequential testing in classifier evaluation yields biased estimates of effectiveness. In: *SIGIR*. Dublin, Ireland, pp.989–998.

9. Mark, G., **Mossaab Bagdouri**, L. Palen, J. Martin, B. Al-Ani, and K. Anderson (2012). Blogs as a collective war diary. In: *CSCW*. Seattle, WA, USA, pp.37–46.

10. Sarcevic, A., L. Palen, J. White, K. Starbird, **Mossaab Bagdouri**, and K. Anderson (2012). "Beacons of hope" in decentralized coordination: Learning from on-the-ground medical twitterers during the 2010 Haiti earthquake. In: *CSCW*. Seattle, WA, USA, pp.47–56.

Workshop Papers and Technical Reports

1. **Bagdouri, Mossaab** and D. W. Oard (2016). CLIP at TREC 2016: LiveQA and RTS. In: *TREC*. Gaithersburg, MD.

2. Hasanain, M., **Mossaab Bagdouri**, T. Elsayed, and D. W. Oard (2016). What questions do journalists ask on Twitter? In: *ICWSM SMnews*. Cologne, Germany, pp.127–134.

3. **Bagdouri, Mossaab** and D. W. Oard (2015). CLIP at TREC 2015: Microblog and LiveQA. In: *TREC*.

4. **Bagdouri, Mossaab** (2015). Cross-platform question routing for better question answering. In: *SIGIR*, pp.1053.

5. Bergsma, S., P. McNamee, **Mossaab Bagdouri**, C. Fink, and T. Wilson (2012). Language identification for creating language-specific Twitter collections. In: *LSM*. Montreal, Canada, pp.65–74.

Book Chapters

1. Starbird, K., L. Palen, S. B. Liu, S. Vieweg, A. Hughes, A. Schram, K. M. Anderson, **Mossaab Bagdouri**, J. White, C. McTaggart, and C. Schenk (2011). *Promoting structured data in citizen communications during disaster response: An account of strategies for diffusion of the 'Tweak the Tweet Syntax'*. Chandos.

Technical Skills

Data Analysis : Spark, Hadoop, R.   **Java EE Architecture**: Java, JSF, PrimeFaces.
Databases: MySQL, Oracle.   **Programming languages**: Python, PHP.

Relevant Coursework

Information Retrieval Systems.   Data-Intensive Computing with MapReduce.
Natural Language Processing.   CL Seminar in Bayesian Nonparametrics.
Machine Learning.   Probabilistic Models of Human and Machine Intelligence.

Languages

➤ Arabic, English and French.