## Silvio Amir

2017

2016

Curriculum Vitae

INESC-ID Lisboa Instituto Superior Técnico da Universidade de Lisboa R. Alves Redol 9, 1000-029 Lisboa, Portugal ⊠ samir@inesc-id.pt http://www.samir.ai samiroid

	Research Topics	
Social Media Analysis, Sentiment Analysis, Healthcare, Natural Language Processing, Machine Learning		
	Education	
2015	Ph.D. Candidate, Computer Science and Engineering, Instituto Superior Técnico da Universidade de Lisboa, Lisboa, Portugal.	
Thesis Title (Provisional)	Agile Social Media Analysis with Neural Networks	
2013	<b>Ph.D. Student</b> , <i>Computer Science and Engineering</i> , Instituto Superior Técnico da Universidade de Lisboa, Lisboa, Portugal.	
Advisor	Prof. Doutor Mário Jorge Gaspar Silva	
Co-Advisor	Prof. Doutora Paula Cristina Quaresma da Fonseca Carvalho	
Funding	Ph.D. scholarship awarded by Fundação para Ciência e Tecnologia (FCT)	
2009	Master (MA), Computer Science and Engineering, Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal. Specialization in Software Engineering	
Thesis Title	Desenvolvimento e Reengenharia de Aplicações Web de Suporte ao Negócio e Inte- gração com Sistemas de Business Intelligence	
	(Development and Re-Engineering of Web Applications for Business Support and Integration with Business Intelligence Systems)	
Advisor	Prof. Doutor Luís Alberto dos Santos Antunes	
To the second se	http://hdl.handle.net/10451/5939	
2007	<b>Licenciate (Lic)</b> , Computer Science and Engineering, Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal.	
	Professional Experience	
	Research	
2017	Research Scientist, Qntfy, Washington (DC), USA,  The http://www.qntfy.com.  Research Fellowship awarded by Northeastern University	
2016	Research Assistant, CCIS - Machine Learning Lab,	

Northeastern University, Boston (MA), USA. under the supervision of Prof. Byron Wallace

Visiting Researcher, School of Information, University of Texas at Austin, Austin (TX), USA.

under the supervision of Prof. Byron Wallace

2016

Research Assistant, Data Management and Information Retrieval Group (DMIR), INESC-ID Lisboa, Lisboa, Portugal.

Expression and Recognition of Irony in Multicultural Social Media EXPRESS

> - joint research project with the University of Texas at Austin, on automatic analysis of sarcasm and irony in text, funded by FCT Portugal

POPSTAR Public Opinion and Sentiment Tracking, Analysis, and Research

- interdisciplinary R&D project on using conventional and social media to measure and track public opinion, funded by FCT Portugal

₾ http://www.popstar.pt

2011 2012

Junior Research Assistant, Large-Scale Informatics Systems Lab (LASIGE), Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal.

REACTION

Retrieval, Extraction and Aggregation Computing Technology for Integrating and Organizing News

 interdisciplinary R&D project to create tools and methodologies to support advanced computational newsrooms, funded by the CoLab, UT Austin | Portugal

### **Industry**

2008 2010 2007 2008

Software Engineer and IT Services Consultant, Truewind, Lisboa, Portugal.

Analyst and Software Developer, Deloitte Touche & Tohmatsu, Lisboa, Portugal.

#### Refereed Publications

#### **Conference**

- 1. Silvio Amir, Glen Coppersmith, Paula Carvalho, Mário J Silva, and Byron C Wallace. "Quantifying Mental Health from Social Media with Neural User Embeddings". In: Journal of Machine Learning Research, W&C Track (2017)
- 2. Silvio Amir, Byron C Wallace, Hao Lyu, Paula Carvalho, and Silva Mário J. "Modelling context with user embeddings for sarcasm detection in social media". In: Proceedings of the Conference on Natural Language Learning (CoNLL) (2016)
- 3. Wang Ling, Chris Dyer, Alan W Black, Isabel Trancoso, Ramon Fermandez, Silvio Amir, Luis Marujo, and Tiago Luis. "Finding Function in Form: Compositional Character Models for Open Vocabulary Word Representation". In: Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing. Lisbon, Portugal: Association for Computational Linguistics, Sept. 2015, pp. 1520-1530
- 4. Wang Ling, Yulia Tsvetkov, Silvio Amir, Ramon Fermandez, Chris Dyer, Alan W Black, Isabel Trancoso, and Chu-Cheng Lin. "Not All Contexts Are Created Equal: Better Word Representations with Variable Attention". In: Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing. Lisbon, Portugal: Association for Computational Linguistics, Sept. 2015, pp. 1367–1372
- 5. Ramón Astudillo, Silvio Amir, Wang Ling, Mario Silva, and Isabel Trancoso. "Learning Word Representations from Scarce and Noisy Data with Embedding Subspaces". In: Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing (Volume 1: Long Papers). Beijing, China: Association for Computational Linguistics, July 2015, pp. 1074–1084

#### **Journal**

6. Silvio Moreira, David S Batista, Paula Carvalho, Francisco M Couto, and Mario J Silva. "Tracking politics with POWER". in: *Program* 47.2 (2013), pp. 120–135

#### Workshop

- 7. Silvio Amir, Ramon F Astudillo, Wang Ling, Mário J Silva, Isabel Trancoso, and Rua Alves Redol. "INESC-ID at SemEval-2016 Task 4-A: Reducing the Problem of Out-of-Embedding Words". In: *Proceedings of SemEval* (2016), pp. 238–242
- 8. Pedro Saleiro, Silvio. Amir, Mário J. Silva, and Carlos Soares. "Tracking Political Opinion on the Web". In: 2015 IEEE International Conference on Computer and Information Technology; Ubiquitous Computing and Communications; Dependable, Autonomic and Secure Computing; Pervasive Intelligence and Computing. Oct. 2015
- Silvio Amir, Wang Ling, Ramón Astudillo, Bruno Martins, Mario J. Silva, and Isabel Trancoso. "INESC-ID: A Regression Model for Large Scale Twitter Sentiment Lexicon Induction". In: Proceedings of the 9th International Workshop on Semantic Evaluation (SemEval 2015). Denver, Colorado: Association for Computational Linguistics, June 2015, pp. 613–618
- Ramón Astudillo, Silvio Amir, Wang Ling, Bruno Martins, Mario J. Silva, and Isabel Trancoso. "INESC-ID: Sentiment Analysis without Hand-Coded Features or Linguistic Resources using Embedding Subspaces". In: *Proceedings of the 9th International Workshop on Semantic Evaluation (SemEval 2015)*. Denver, Colorado: Association for Computational Linguistics, June 2015, pp. 652–656
- 11. Silvio Amir, Miguel B. Almeida, Bruno Martins, João Filgueiras, and Mário J. Silva. "TUGAS: Exploiting unlabelled data for Twitter sentiment analysis". In: *Proceedings of the 8th International Workshop on Semantic Evaluation (SemEval 2014)*. Dublin, Ireland: Association for Computational Linguistics and Dublin City University, Aug. 2014, pp. 673–677
- 12. Joao Filgueiras and Silvio Amir. "POPSTAR at replab 2013: Polarity for reputation classification". In: *CLEF 2013 Eval. Labs and Workshop Online Working Notes.* 2013
- 13. Silvio Moreira, João Filgueiras, Bruno Martins, Francisco Couto, and Mário J. Silva. "REACTION: A naive machine learning approach for sentiment classification". In: Second Joint Conference on Lexical and Computational Semantics (\*SEM), Volume 2: Proceedings of the Seventh International Workshop on Semantic Evaluation (SemEval 2013). Atlanta, Georgia, USA: Association for Computational Linguistics, June 2013, pp. 490–494
- Silvio Moreira, David Batista, Paula Carvalho, Francisco M Couto, and Mário J Silva.
   "POWER-Politics Ontology for Web Entity Retrieval". In: Advanced Information Systems Engineering Workshops. Springer. 2011, pp. 489–500

# Invited Talks and Seminars Representation Learning for Agile S Northwestern University Roston (MA)

**Representation Learning for Agile Social Media Analysis**, *SIGAI CNC*, Northeastern University, Boston (MA), USA.

**Towards Social Media Analysis for Low-Resource Languages**, *Priberam Machine Learning Lunch Seminars*, Instituto Superior Técnico, Lisboa, Portugal.

How to build a Twitter Sentiment Classifier: part II, Sapo Labs Talks, Sapo Labs Lisboa, Lisboa, Portugal.

2015

2014	How to build a Twitter Sentiment Classifier, Sapo Labs Talks, Sapo Labs Lisboa, Lisboa, Portugal.  Análise de Sentimento em Social Media, Workshop em Jornalismo Computacional, Faculdade de Engenharia da Universidade do Porto, Porto, Portugal.
	Service
	Peer-Reviewing
	Reviewer and secondary reviewer for ACL, NAACL, EACL, EMNLP, IJCAI and IJCNLP conferences, and for the Springer Machine Learning Journal
	Conference Organization
2017	Volunteer, Machine Learning for Healthcare, Northeastern University, Boston (MA), USA.
2015	Volunteer, Conference on Empirical Methods in Natural Language Processing, Instituto Superior Técnico, Universidade de Lisboa, Lisboa, Portugal.
	Summer Schools
2017	Laboratory Monitor, Lisbon Machine Learning Summer School (LxMLS 2017), Instituto Superior Técnico, Lisboa, Portugal.
2015	Laboratory Monitor, Lisbon Machine Learning Summer School (LxMLS 2015), Instituto Superior Técnico, Lisboa, Portugal.
2014	Laboratory Monitor, Lisbon Machine Learning Summer School (LxMLS 2014), Instituto Superior Técnico, Lisboa, Portugal.
	Volunteer Work
20112012	<b>European Voluntary Service Program</b> , <i>Multikultura Egyesület</i> , Hungary. Worked as a volunteer in a refugee camp in Bicske and in a day care center in a problematic neighborhood of Budapest, teaching English and basic computer skills.