Whiting School of Engineering, Department of Computer Science Johns Hopkins University Baltimore, MD 21218, United States \$\psi +1 (512) 917 9507

⊠ samir@jhu.edu https://samiroid.github.io/

samiroid

# Silvio Amir

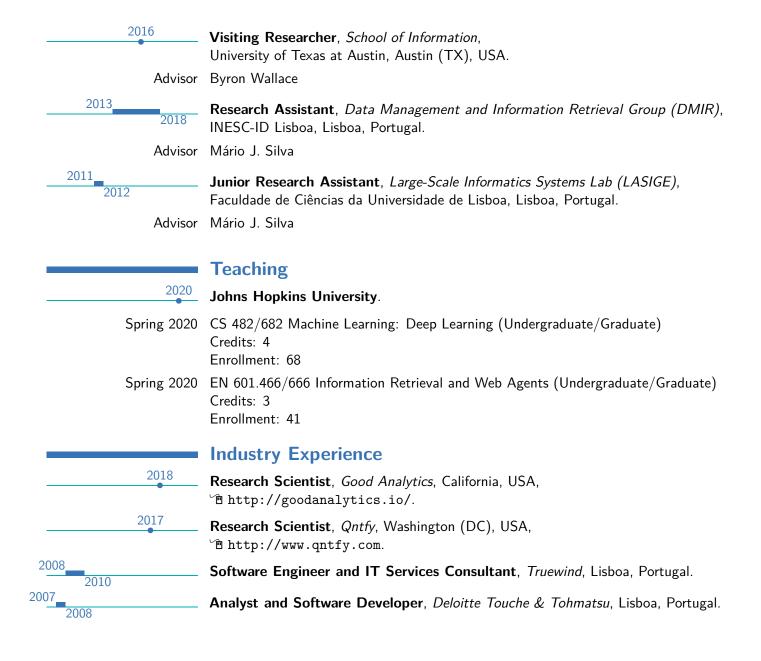
Curriculum Vitae

## Research Topics

Social Media Analysis, Natural Language Processing, Deep Learning, and Machine Learning

Applications in Healthcare, Public Health and the Social Sciences

	Education
2018	Ph.D. Information Systems and Computer Engineering, Instituto Superior Técnico da Universidade de Lisboa, Lisboa, Portugal.
Thesis	Agile Social Media Analysis with Neural Networks
	Mário J. Silva
Co-Advisor	Paula C. Carvalho
Funding	Ph.D. scholarship awarded by Fundação para Ciência e Tecnologia (FCT)
2009	Master Computer Science and Engineering (MA), 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	Luís Antunes
007	Licenciate Computer Science and Engineering (Lic), Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal.
	Academic Experience
2020	Lecturer, Whiting School of Engineering, Johns Hopkins University, Baltimore (MD), USA.
2019	Visiting Researcher, School of Medicine, University of California San Diego, La Jolla, San Diego (CA), USA.
Advisor	John W. Ayers
2018	Research Fellow, Center for Language and Speech Processing,  Johns Hopkins University, Baltimore (MD), USA.
Advisor	Mark Dredze
2016 2017	Research Assistant, CCIS - Machine Learning Lab, Northeastern University, Boston (MA), USA.
Advisor	



### **Refereed Publications**

#### **Conference**

- Paula Carvalho, Bruno Martins, Hugo Rosa, Silvio Amir, Jorge Baptista, and Mário J. Silva. "Situational Irony in Farcical News Headlines". In: Computational Processing of the Portuguese Language. Springer International Publishing, 2020, pp. 65–75
- Manya Wadhwa, Silvio Amir, and Mark Dredze. "Aligning Public Feedback To Requests For Comments On Regulations.gov". In: *International Conference on Web* and Social Media (ICWSM). 2020
- 3. Silvio Amir, Mark Dredze, and John W Ayers. "Mental Health Surveillance over Social Media with Digital Cohorts". In: *Proceedings of the Sixth Workshop on Computational Linguistics and Clinical Psychology*. 2019, pp. 114–120
- 4. 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)
- 5. 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)
- 6. 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
- 7. 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
- 8. 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**

9. 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

- 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
- 11. 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
- 12. 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
- 13. 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
- 14. 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
- 15. Joao Filgueiras and Silvio Amir. "POPSTAR at replab 2013: Polarity for reputation classification". In: *CLEF 2013 Eval. Labs and Workshop Online Working Notes.* 2013
- 16. 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
- 17. 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

# 2016 2015 2014 2014 2014

#### **Invited Talks and Seminars**

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.

**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.

