

Gil Rocha

Curriculum Vitae

Porto, Portugal
✉ gilrocha93@gmail.com
📄 gilrocha.github.io
🌐 GilRocha
📌 gilrocha93
🐦 _GilRocha

Education

- 2011–2016 **Integrated Master in Informatics and Computing Engineering (300 ECTS)**
(B.Sc. and M.Sc.) *Faculty of Engineering, University of Porto, Portugal*
Master Thesis: ArgMine: Argumentation Mining from Text
Advisors: Prof. Henrique Lopes Cardoso and Jorge Teixeira
- 2015–2016 **Erasmus+ Programme, 1st semester 2015/2016**
Barcelona School of Informatics, Technical University of Catalonia and Faculty of Mathematics, University of Barcelona, Spain
- 2017–2022 **Doctoral Program in Informatics Engineering (ProDEI)**
(expected) *Faculty of Engineering, University of Porto, Portugal*
Title: Argumentation Mining from Text Using Semantic Approaches, Advisor: Prof. Henrique Lopes Cardoso

Work Experience

- 09/2014–08/2015 **Web Development JCRSOFT Paços de Ferreira, Porto, Portugal**
JCRSoft is a software company responsible for the IT sector of some companies from different industrial sectors. I was responsible for the full development of the commercial websites for some of these companies.
- 10/2016–Current **Research Assistant Artificial Intelligence and Computer Science Laboratory, LIACC/FEUP, Portugal**
LIACC is recognized as one the leading Portuguese research institutes on Artificial Intelligence. I have been working in the project entitled “ArgMine: Argumentation Mining from Text” which aims to develop a system able to automatic detect, identify and structure the argumentative content from textual resources written in Portuguese.
- 04/2018–06/2018 **Visiting Researcher Ubiquitous Knowledge Processing (UKP) Lab Department of Computer Science, Technische Universität Darmstadt, Germany**
Research visit partially supported by an Erasmus+ (Work) grant. During this period, I collaborated with the UKP lab on the topic of Argumentation Mining, under the supervision of Dr. Christian Stab and Prof. Iryna Gurevych.

Academic & Research Experience

Research Projects

- 11/2014–09/2015 **ArgMine: Argumentation Mining from Text**, ARTIFICIAL INTELLIGENCE AND COMPUTER SCIENCE LABORATORY (LIACC/FEUP) & SAPO LABS, Porto, Portugal, .
- 07/2017–Current **ARGH: Argumentation Hub**, UNIVERSITY OF PORTO MEDIA INNOVATION LABS, Porto, Portugal.
- 05/2018–10/2019 **IA.SAE: Artificial Intelligence in Economic and Food Safety**, National Digital Skills Initiatives (INCoDe.2030), LIACC/FEUP, PORTUGUESE ECONOMIC AND FOOD SAFETY AUTHORITY (ASAE), .
- 10/2018–09/2021 **DARGMINTS: Discourse Analysis and Argumentation Mining from Text Sources**, FCT POCI-01-0145-FEDER-031460, LIACC/FEUP, FLUP, INESC-ID LISBOA, .

Teaching

- 03/2015–06/2015 **Supervisor of Artificial Intelligence undergraduate course**, FACULTY OF ENGINEERING, UNIVERSITY OF PORTO, Portugal.
- 09/2019–02/2020 **Invited Assistant Lecturer - Integrated Master in Informatics and Computing Engineering**, DEPARTMENT OF INFORMATICS ENGINEERING (DEI), FACULTY OF ENGINEERING, UNIVERSITY OF PORTO (FEUP), Portugal.
Invited Assistant Lecturer on Agents and Distributed Artificial Intelligence

09/2016–**Supervision of MSc Students**, DEPARTMENT OF INFORMATICS ENGINEERING (DEI), FACULTY OF ENGINEERING, UNIVERSITY OF PORTO (FEUP), Portugal.
Current Supervision of >10 students in topics related to: Artificial Intelligence, Natural Language Processing, and Machine Learning.

Scientific Events

Member of Programme Committees and Reviewer:

ISMIS 2017; WI 2017; IEEE S3C 2017; NAACL 2019, 2021; ACL 2019, 2020, 2021[‡]; EMNLP 2020[‡], 2021; ACL-IJCNLP 2020; EACL 2021; *SEM 2021; Elsevier ESWA International Journal. ([‡] Outstanding Reviewer recognition)

Member of Organization Committees:

DSIE'17 (January 31, 2017); Workshop ArgHumantation – Research and Practice(s) of Argumentation, Argumentation Hub (ARGH), Media Innovation Labs (MIL), University of Porto (May 3, 2018);

Invited Talks

- 10/2017 **Challenges in Natural Language Processing: From Semantic Tasks to Argumentation Mining.** *Faculty of Letters, University of Porto, Portugal.* JADIS VII / MEMITA
- 06/2018 **Argumentation Mining from Text.** *Smart Data Analytics (SDA), University of Bonn, Germany.*
- 11/2017, 10/2018 **ArgMine: Argumentation Mining from Text.** *Faculty of Engineering, University of Porto, Portugal.*
- 11/2019 **Learning Text Representations.** *Faculty of Engineering, University of Porto, Portugal.*

Selected Publications

1. [Gil Rocha](#) and Henrique Lopes Cardoso. **Recognizing Textual Entailment: Challenges in the Portuguese Language.** *Information* 2018, 9(4):76.
2. [Gil Rocha](#), Christian Stab, Henrique Lopes Cardoso and Iryna Gurevych. **Cross-Lingual Argumentative Relation Identification: from English to Portuguese.** 5th Workshop on Argumentation Mining, EMNLP, ACL. 2018.
3. André Cruz, [Gil Rocha](#) and Henrique Lopes Cardoso. **On Document Representations for Detection of Biased News Articles.** 35th ACM/SIGAPP Symposium on Applied Computing, KLP-SAC, ACM. 2020
4. André Cruz, [Gil Rocha](#) and Henrique Lopes Cardoso. **Coreference Resolution: Toward End-to-End and Cross-Lingual Systems.** *Information.* 2020; 11(2):74
5. [Gil Rocha](#) and Henrique Lopes Cardoso. **Improving Transfer Learning in Unsupervised Language Adaptation.** 30th International Conference on Artificial Neural Networks and Machine Learning, ICANN 2021.
6. [Gil Rocha](#) and Henrique Lopes Cardoso. **Towards Robust Auxiliary Tasks for Language Adaptation.** 29th European Symposium on Artificial Neural Networks, ESANN 2021.

Honors and Awards

- 10/2019 **EurNLP Travel grant**, EURNLP, FACEBOOK LONDON, London, UK.
- 09/2018 **PhD Scholarship**, FUNDAÇÃO PARA A CIÊNCIA E TECNOLOGIA (FCT), SFRH/BD/140125/2018, Portugal. Very competitive scholarships: Ranked in the top 10% among more than 100 candidates in the field of Computer Science
- 09/2018 **ProDEI PhD Scholarship**, DOCTORAL PROGRAM IN INFORMATICS ENGINEERING (PRODEI), Department of Informatics Engineering (DEI), Faculty of Engineering, University of Porto (FEUP), Portugal.
- 07/2017 **29th European Summer School in Logic, Language and Information (ESSLLI)**, France.
- 02/2016 **9th Young Researchers Meeting of the University of Porto (IJUP)**, Porto, Portugal.
- 07/2015 **5th Lisbon Machine Learning School (LxMLS) - Travel grant**, Lisbon, Portugal.
- 03/2013 **EBEC Porto (Team Design category) - First Place**, BEST PORTO, Portugal.
- 04/2013 **EBEC Portugal (Team Design category) - First Place**, BEST PORTUGAL, Portugal.
- 08/2013 **EBEC Final (Team Design category) - Second Place**, BEST WARSAW, Poland.

Skills and Languages

General	Computer Science, Mathematics, Software Engineering, Artificial Intelligence, Multi-Agent Systems, Machine Learning, Natural Language Processing.
Programming	Java, Python, SQL, MongoDB, JADE, Prolog, scikit-learn, NumPy, SciPy, Pandas, CRFsuite, PyStruct, CRF++, TensorFlow, Keras, PyTorch
Languages	Portuguese (Native), English (Fluent), French (Fluent), Spanish (Advanced)

Research Interests

Machine Learning, Natural Language Processing, Argumentation Mining, Computational Semantics, Transfer Learning, Cross-Language Learning, Knowledge Representation and Reasoning, and Multi-Agent Systems.