

PERSONAL INFORMATION

Pierpaolo Basile



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Sex M | Date of birth 29/04/1981 | Nationality Italian

h-index: 23 total citations: 2147 (source: Google Scholar)

h-index: 15 total citations: 988 (source: Scopus)

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input checked="" type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

Dec. 2021 - Present

Associate Professor (ING-INF/05 - Information Processing Systems)

University of Bari Aldo Moro, Department of Computer Science, Italy

- Research topics: natural language processing, information retrieval, recommender systems
[Research](#)

Dec. 2018 - Dec. 2021

Assistant Professor – RTD-B (ING-INF/05 - Information Processing Systems)

University of Bari Aldo Moro, Department of Computer Science, Italy

- Research topics: natural language processing, information retrieval, recommender systems
[Research](#)

Jun. 2016 – Dec. 2018

Assistant Professor – RTD-A (INF/01 - Computer Science)

University of Bari Aldo Moro, Department of Computer Science, Italy

- Research topics: natural language processing, multilingual entity linking
[Research](#)

Jul. 2013 – Jul. 2016

Research Fellow (Post-Doc Researcher)

University of Bari Aldo Moro, Department of Computer Science, Italy

Research topics: natural language processing, compositional operators in distributional semantic models

[Research](#)

Jun. 2009 – Jun. 2013

Research Fellow (Post-Doc Researcher)

University of Bari Aldo Moro, Department of Computer Science, Italy

Research topics: natural language processing, semantic indexing, information retrieval

[Research](#)

EDUCATION AND TRAINING

2009

Ph.D in Computer Science

University of Bari Aldo Moro, Italy

- Word Sense Disambiguation and Intelligent Information Access

2005

M.Sc. in Computer Science

University of Bari Aldo Moro, Italy

- JIGSAW: an algorithm for Word Sense Disambiguation, 108/110

PROJECTS (last five years)

With leadership roles

- Sep. 2017 – Sep. 2018 Research contract between the Digital Transformation Team and the Department of Computer Science, University of Bari Aldo Moro. (project leader)
- Jun. 2016 – Dec. 2018 Future in Research – project: “Multilingual Entity Linking” (cod. IAVIN27) funded by the Apulia Region (project leader)

Project reviewer

Hasler Foundation, PRIN 2017, Israel Science Foundation

COMMUNITY SERVICE (last 5y)

- Program co-chair IEEE International Conference on Humanized Computing and Communication with Artificial Intelligence (HCCAI 2020)
- Workshops co-chair 3rd, 2nd, 1st Knowledge-aware and Conversational Recommender Systems Workshop (KaRS 2021, KaRS 2019, KaRS 2018), 4th, 2nd, 1st Workshop on Natural Language for Artificial Intelligence (NL4AI 2020, NL4AI 2018, NL4AI 2017), 1st Workshop on Temporal Dynamics in Digital Libraries (TDDL 2017), co-located at TPD 2017
- Sponsor chair 6th Italian Conference on Computational Linguistics (CLiC-it 2019)
- TPC member ACL Rolling Review; ACL 2018-2020; EMNLP 2017, 2018, 2020, 2021; EACL 2021; RecSys 2021-2019; COLING 2020, 2022; SAC 2019-2021; ECAI 2020; ESWC 2017-2021, ISWC 2017-2021; NLDB 2017-2020; CIKM 2020-2021; IJCAI 2021, 2019; AAAI 2020
- Regular reviewer Italian Journal of Computational Linguistics (IJCoL), Language Resources and Evaluation, Journal of Information Processing and Management, Semantic Web Journal, Data Mining and Knowledge Discovery, Journal of Transactions on Games, Progress in Artificial Intelligence, AI Communications
- Tutorial Lexical Semantic Change: Models, Data and Evaluation - LREC 2022
Linked Open Data for Semantics-aware Recommender Systems - ESWC 2017
- Association board Association board of AILC – Italian Association of Computational Linguistics (2019-2021)

EDITORIAL ACTIVITY

- 2020 - 2021 Co-editor: Special Issue "Knowledge Graphs for Search and Recommendation", Information (ISSN 2078-2489).

PHD SUPERVISION

- 2021 - Present PhD co-tutor at University of Bari: Pierluigi Cassotti. Computational Approaches for Lexical Semantic Change Detection. PhD program in Computer Science and Mathematics, XXXVI Cycle.
- 2017 - 2020 PhD co-tutor at University of Bari: Lucia Siciliani. Conversational agents for recommender systems. PhD program in Computer Science and Mathematics, XXXIII Cycle.

TEACHING

- 2021 - 2022 “Deep Learning for Natural Language Processing”, PhD Programme in Computer Science and Mathematics, University of Bari, Italy.
- 2021 - 2022 “Videogame development”, Bachelor Program in Computer Science, University of Bari, Italy.
- 2019-2020, 2020-2021, 2021-2022 “Advanced Programming Methods”, Bachelor Program in Computer Science, University of Bari, Italy.
- 2019-2020 “Advanced Natural Language Processing”, PhD Programme in Computer Science and Mathematics, University of Bari, Italy.
- 2018-2019 “Algorithms and Data Structures”, Bachelor Program in Computer Science, University of Bari, Italy.
- 2017-2018, 2016-2017 “Information Retrieval”, Bachelor Program in Computer Science, University of Bari, Italy.
- 2016-2017 “Geometry and Meaning”, PhD Programme in Computer Science and Mathematics, University of Bari, Italy.

INSTITUTIONAL RESPONSIBILITIES

- 2021 - Present Academic Board of the PhD Programme in Computer Science and Mathematics (XXXVII cycle), University of Bari, Italy.
- 2017 - 2020 Coordinator of the Admissions Tests of the Bachelor Program in Computer Science, University of Bari, Italy.

INVITED TALKS

- 2022 "AI e Recommender System" – Meeting associazione AlxIA e TELT
- 2017 "Question Answering for a Language Game and Customer Support" - MOD 2017 - The Third International Conference on Machine Learning, Optimization and Big Data.
- 2016 Panelist: "Language Technologies at the crossroad of industrial, social and cultural innovation dynamics", Third Italian Conference on Computational Linguistics (CLIC-it 2016).

FELLOWSHIPS AND AWARDS

- 2018 Alan Turing Institute - Visiting Researcher Application - The project titled "Diachronic Analysis of Language" has been accepted as visiting research project at the Alan Turing Institute.
- 2015 Future in Research - Author of the project "Multilingual Entity Linking" (cod. IAVIN27) funded by the Apulia Region (Future In Research program) for the funding of 170 fixed-term research positions in the Apulia universities.
- 2014 Linked Open Data-Enabled Recommender System Challenge - ESWC 2014 first system in the Top-N recommendation from binary user feedback task.
- 2014 CLIC-it 2014 Best Young Paper Award "Analysing Word Mining over Time by Exploiting Temporal Random Indexing" assigned by the First Italian Conference on Computational Linguistics (CLIC-it 2014).
- 2009 Grant awarded for attending the IJCAI 2009 - 21st International Joint Conference on Artificial Intelligence, Pasadena, California, USA.
- 2009 Distinguished Ph.D. theses 2009-2010 assigned by the Special Interest Group on Natural Language Processing of the Italian Association for Artificial Intelligence.

ADDITIONAL INFORMATION

- 2018 ASN II Fascia – settore 01/B1
- 2017 ASN II Fascia – settore 09/H1

PUBLICATIONS

Publications
best and most relevant
in the last 10 years

1. Siciliani, Lucia, Basile, Pierpaolo, Lops, Pasquale, Semeraro, Giovanni. MQALD: Evaluating the impact of modifiers in question answering over knowledge graphs. *SEMANTIC WEB*, 13 (2), p. 215 – 231, 2022. DOI: 10.3233/SW-210440
2. Tsakalidis, Adam, Basile, Pierpaolo, Bazzi, Marya, Cucuringu, Mihai, McGillivray, Barbara. DUKweb, diachronic word representations from the UK Web Archive corpus. *SCIENTIFIC DATA*, 8 (1), art. no. 269, 2021. DOI: 10.1038/s41597-021-01047-x
3. Florio, Komal, Basile, Valerio, Polignano, Marco, Basile, Pierpaolo, Patti, Viviana. Time of your hate: The challenge of time in hate speech detection on social media. *APPLIED SCIENCE*, 10 (12), art. no. 4180, 2020. DOI: 10.3390/APP10124180
4. Narducci, Fedelucio, Basile, Pierpaolo, de Gemmis, Marco, Lops, Pasquale, Semeraro, Giovanni. An investigation on the user interaction modes of conversational recommender systems for the music domain. *USER MODELING AND USER-ADAPTED INTERACTION*, vol. 30, p. 251-284, 2020. DOI: 10.1007/s11257-019-09250-7.
5. Cassotti, Pierluigi, Basile, Pierpaolo, de Gemmis, Marco, Semeraro, Giovanni. Analyzing Gaussian distribution of semantic shifts in Lexical Semantic Change Models. *IJCoL. Italian Journal of Computational Linguistics* 6 (6-2), 23-36, 2020. DOI: <https://doi.org/10.4000/ijcol.714>
6. Rossiello, Gaetano, Caputo, Annalina, Basile, Basile, Semeraro, Giovanni. Modeling concepts and their relationships for corpus-based query auto-completion. *OPEN COMPUTER SCIENCE* 9(1): 212-225, 2019. DOI: 10.1515/comp-2019-0015
7. Basile, Pierpaolo, Greco, Claudio, Suglia, Alessandro, Semeraro, Giovanni: Bridging the gap between linked open data-based recommender systems and distributed representations. *INFORMATION SYSTEMS* vol. 86, p. 1-8, 2019.
8. Polignano, Marco, Basile, Pierpaolo, de Gemmis, Marco. "Alberto: Italian BERT language understanding model for NLP challenging tasks based on tweets." 6th Italian Conference on Computational Linguistics, CLiC-it 2019. Vol. 2481. CEUR, 2019.
9. Polignano, Marco, Basile, Valerio, Basile, Pierpaolo, de Gemmis, Marco, Semeraro, Giovanni. AIBERTo: Modeling Italian Social Media Language with BERT. *IJCoL. Italian Journal of Computational Linguistics* 5 (5-2), 11-31, 2019. DOI: <https://doi.org/10.4000/ijcol.472>
10. Basile, Pierpaolo, Caputo, Annalina, Lawless, Séamus, Semeraro, Giovanni. Diachronic Analysis of Entities by Exploiting Wikipedia Page revisions. *Proceedings of the International Conference on Recent Advances in Natural Language Processing (RANLP 2019)*, p. 84-91, 2019.
11. Tsakalidis, Adam, Bazzi, Marya, Cucuringu, Mihai, Basile, Pierpaolo, McGillivray, Barbara. Mining the UK Web Archive for Semantic Change Detection. *Proceedings of the International Conference on Recent Advances in Natural Language Processing (RANLP 2019)*, p. 1212-1221, 2019.
12. Basile, Pierpaolo, Basile, Valerio, Nissim, Malvina, Novielli, Nicole, Patti, Viviana. Sentiment Analysis of Microblogging Data. *Encyclopedia of Social Network Analysis and Mining*. 2nd Ed. 2018.
13. Musto Cataldo, Basile Pierpaolo, Lops Pasquale, de Gemmis Marco, Semeraro Giovanni (2017). Introducing linked open data in graph-based recommender systems. *INFORMATION PROCESSING & MANAGEMENT*, vol. 53, p. 405-435, ISSN: 0306-4573, DOI: 10.1016/j.ipm.2016.12.003
14. Basile, Pierpaolo, Cassotti, Pierluigi, Siciliani, Lucia, Semeraro, Giovanni. Bi-directional LSTM-CNNs-CRF for Italian Sequence Labeling and Multi-Task Learning. *IJCoL. Italian Journal of Computational Linguistics*, vol 3 2-3, pp 37-50, 2017. DOI: <https://doi.org/10.4000/ijcol.553>
15. Narducci, Fedelucio, Basile, Pierpaolo, Musto, Cataldo, Lops, Pasquale, Caputo, Annalina, de Gemmis, Marco, Iaquina, Leo, Semeraro, Giovanni (2016). Concept-based item representations for a cross-lingual content-based recommendation process. *INFORMATION SCIENCES*, vol. 374, p. 15-31, ISSN: 0020-0255, DOI: 10.1016/j.ins.2016.09.022
16. Basile, Pierpaolo, de Gemmis, Marco, Lops, Pasquale, Semeraro, Giovanni (2016). Solving a Complex Language Game by using Knowledge-based Word Associations Discovery. *IEEE TRANSACTIONS ON COMPUTATIONAL INTELLIGENCE AND AI IN GAMES*, vol. 8, p. 13-26, ISSN: 1943-068X, DOI: 10.1109/TCIAIG.2014.2355859
17. Piero Molino, Lops, Pasquale, Semeraro, Giovanni, de Gemmis, Marco, Basile, Pierpaolo (2015). Playing with Knowledge: A Virtual Player for "Who Wants to Be a Millionaire?" that Leverages Question Answering Techniques. *ARTIFICIAL INTELLIGENCE*, vol. 222, p. 157-181, ISSN: 0004-3702, DOI: 10.1016/j.artint.2015.02.003
18. Caputo, Annalina, Basile, Pierpaolo, Semeraro, Giovanni. Temporal random indexing: A system for analysing word meaning over time. *IJCoL. Italian Journal of Computational Linguistics*, vol 1 1-1, pp 61-74, 2015, DOI: <https://doi.org/10.4000/ijcol.315>
19. Basile, Pierpaolo, Caputo, Annalina, Semeraro, Giovanni. "An enhanced lesk word sense disambiguation algorithm through a distributional semantic model." *Proceedings of COLING 2014, the 25th International Conference on Computational Linguistics: Technical Papers*. 2014.
20. Semeraro, Giovanni, de Gemmis, Marco, Lops, Pasquale, Basile, Pierpaolo (2012). An Artificial Player for a Language Game. *IEEE INTELLIGENT SYSTEMS*, vol. 27(5), p. 36-43, ISSN: 1541-1672, DOI: 10.1109/MIS.2011.37

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According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

Bari, April 14 2022.