

Tommaso Pasini

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Education

La Sapienza <i>PhD Degree</i> PhD in Natural Language Processing	Rome 2015–2019
La Sapienza <i>Master's Degree, 110/110 cum laude</i> Master's degree in computer science	Rome 2013–2015
La Sapienza <i>Bachelor's Degree, 108/110</i> Bachelor's degree in computer science	Rome 2010–2013

Publications

1. **Tommaso Pasini** and Roberto Navigli. Train-o-matic: Supervised word sense disambiguation with no (manual) effort. *Artificial Intelligence Journal*, 2019.
2. Bianca Scarlini, **Tommaso Pasini**, and Roberto Navigli. Just “OneSeC” for producing multilingual sense-annotated data. In *Proceedings of ACL 2019*, Florence, Italy, 2019.
3. **Tommaso Pasini** and Roberto Navigli. Two knowledge-based methods for high-performance sense distribution learning. In *Proceedings of AAAI 2018*, pages 5374–5381, New Orleans, Louisiana, USA, 2018.
4. **Tommaso Pasini**, Francesco Elia, and Roberto Navigli. Huge Automatically Extracted Training-Sets for Multilingual Word Sense Disambiguation. In *Proceedings LREC 2018*, Miyazaki, Japan, 2018.
5. Jose Camacho-Collados, Claudio Delli Bovi, Luis Espinosa Anke, Sergio Oramas, **Tommaso Pasini**, Enrico Santus, Vered Shwartz, Roberto Navigli, and Horacio Saggion. Semeval-2018 task 9: Hypernym discovery. In *Proceedings of The 12th International Workshop on Semantic Evaluation*, pages 712–724, 2018.
6. **Tommaso Pasini** and Roberto Navigli. Train-O-Matic: Large-scale supervised word sense disambiguation in multiple languages without manual training data. In *EMNLP*, 2017.
7. Tiziano Flati, Daniele Vannella, **Tommaso Pasini**, and Roberto Navigli. Multiwibi: The multilingual wikipedia bitaxonomy project. *Artificial Intelligence*, 241:66–102, 2016.
8. Tiziano Flati, Daniele Vannella, **Tommaso Pasini**, and Roberto Navigli. Two is bigger (and better) than one: the wikipedia bitaxonomy project. In *ACL (1)*, pages 945–955, 2014.

Academic Experience

Research Fellow

La Sapienza, CS Department, Rome

09/2019–Present

Automatic generation of training sets for Word Sense Disambiguation in multiple languages. I am also interested in learning representations for word meanings and their distribution within a given corpus.

PhD in Natural Language Processing

La Sapienza, CS Department, Rome

11/2015–09/2019

PhD in Natural Language Processing supervised by prof. Roberto Navigli. My thesis was about the automatic generation of semantically-annotated training data in different languages and potentially specific to a target domain of interest.

Tutor Unitelma Metodologie di Programmazione

Unitelma Sapienza

2016 – 2018

I tutored "Metodologie di Programmazione" online course of the bachelor degree in CS. The course is intended to teach students Object Oriented Programming via the Java programming language.

Working Experiences

Bloomberg Intern

Machine Learning Team, Bloomberg LP.

06/2018–10/2018

Research focused internship in NLP. I studied the benefits and the drawbacks of using a Knowledge Base as background knowledge in NLP tasks and neural networks. In the second part of my internship, I researched methods to interpret neural networks outcomes on NLP tasks such as POS tagging and Entity Recognition.

Natural Language Processing Tutor

La Sapienza, CS Department, Rome

2015 – 2018

I have tutored the master course of Natural Language Processing of prof. Roberto Navigli. Inter alia, I followed and evaluated the students on the three homework we delivered (on morpheme splitting, pos tagging with neural architectures, relation extraction) during the course and on the final projects.

Research Scholarship

La Sapienza, CS Department, Rome

2014–2015

WiBi Taxonomy : automatic taxonomy creation of english Wikipedia page and categories with Prof. Roberto Navigli, funder by ERC Starting Grant, EU FP7 project number 259234.

Computer skills

Programming Languages: Java, Python, Bash, C

Frameworks: Pytorch, TensorFlow, Keras, Maven, CoreNLP, Git, L^AT_EX

Languages

Italian: Native

English: Fluent

Reviewing Activities

- **Journals:** Computational Linguistics, Artificial Intelligence Journal.

- **Conferences:** ACL2017,2018,2019; EMNLP2018,2019; AACL2018; ISWC2017, 2018;
- **Workshops:** SemEval-2018 SemEval-2018 Task 9.

Miscellaneous

Global AI Hackathon

Rome

25-06-2017

Won the prize for the Fake News challenge. My team and I developed a system to recognize fake news in many different languages.

Java Community Process Associate Member

Oracle

2017 – Present

Associate member of OpenJDK: the open source implementation of Java SE.

CS Department Collaboration Scholarship

La Sapienza, CS Department, Rome

2012–2014

Collaboration with CS department.

PhD thesis

Title: *Knowledge-based approaches to producing large-scale training data from scratch for Word Sense Disambiguation and Sense Distribution Learning*

Supervisors: Prof. Roberto Navigli

Description: The thesis focuses on relieving the burden of human annotations in Word Sense Disambiguation thus enabling the automatic construction of high-quality sense-annotated dataset not only for English, but especially for other languages where sense-annotated data are not available at all. Furthermore, in the thesis I also illustrate the problem of automatically inducing word-sense distributions and, to this end, introduce two knowledge-based and language-independent approaches.

References

Person	Role	Contact
○ Roberto Navigli	PhD Supervisor	navigli@di.uniroma1.it

Hobbies

In my free time i love to climb indoor and outdoor, to play guitar and go out with my camera to shoot around. Time to time I just code for to learn new languages or to start new personal projects.