

Edoardo Barba

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EDUCATION

SAPIENZA UNIVERSITY

M. SC. IN ENGINEERING IN
COMPUTER SCIENCE

Final grade: 110 cum Laude
Jan 2019 | Rome, Italy

SAPIENZA UNIVERSITY

HONORS PROGRAMME

Completed Successfully
Dec 2018 | Rome, Italy

ROMA TRE UNIVERSITY

B. SC. IN COMPUTER
ENGINEERING

Final grade: 110 cum Laude
Jul 2016 | Rome, Italy

LINKS

Twitter: @edoardo_barba

Github: edobobo

Website: edobobo.github.io

Linkedin: Edoardo Barba

COURSEWORK

GRADUATE

Natural Language Processing

Neural Networks

Machine Learning

Big Data

Algorithm Design

Data Mining

UNDERGRADUATE

Object Oriented Programming

Algorithms and Data Structures

Functional Programming

Databases

Software Design

SKILLS

PROGRAMMING

Advanced: Python

Intermediate: Kotlin | Java

FRAMEWORKS

Deep Learning: Pytorch | Pytorch

lightning | AllenNLP

Machine Learning: Sklearn | Smile

NLP: NLTK | Spacy | Stanza

LANGUAGES

Italian: Mother tongue

English: Fluent

CURRENT OCCUPATION

SAPIENZA UNIVERSITY OF ROME | PHD STUDENT IN COMPUTER SCIENCE

Nov 2019 – Present | Rome, Italy

Advisor: Roberto Navigli

Working mainly on Lexical Semantics, more specifically in Word Sense

Disambiguation, but I am also interested in Entity Linking and semantically enhanced generative approaches.

SELECTED PUBLICATIONS

- [1] E. Barba, T. Pasini, and R. Navigli. ESC: Redesigning WSD with extractive sense comprehension. In Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, pages 4661–4672, Online, June 2021. Association for Computational Linguistics.
- [2] E. Barba, L. Procopio, C. Lacerra, T. Pasini, and R. Navigli. Exemplification modeling: Can you give me an example, please? In Z.-H. Zhou, editor, Proceedings of the Thirtieth International Joint Conference on Artificial Intelligence, IJCAI-21, pages 3779–3785. International Joint Conferences on Artificial Intelligence Organization, 8 2021. Main Track.
- [3] E. Barba, L. Procopio, and R. Navigli. ConSeC: Word sense disambiguation as continuous sense comprehension. In Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing, pages 1492–1503, Online and Punta Cana, Dominican Republic, Nov. 2021. Association for Computational Linguistics.
- [4] L. Procopio, E. Barba, F. Martelli, and R. Navigli. Multimirror: Neural cross-lingual word alignment for multilingual word sense disambiguation. In Z.-H. Zhou, editor, Proceedings of the Thirtieth International Joint Conference on Artificial Intelligence, IJCAI-21, pages 3915–3921. International Joint Conferences on Artificial Intelligence Organization, 8 2021. Main Track.

WORK EXPERIENCE

BABELSCAPE | NLP ENGINEER

Sep 2018 – Oct 2019 | Rome, Italy

- Design and implementation of a module for automatic named entities recognition (NER) in Wikipedia pages. Aim: produce silver-standard datasets for training NER classifiers in multiple languages.
- Development of Extraggio 2.0, a semantic-aware concepts and named entities extraction tool. Main contributions: Designing and implementing a new keyword extraction algorithm based on TextRank as well as proposing a novel word embedding model mainly focused towards explicit components.

AWARDS

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| Sapienza | Honours programme successful completion scholarship. |
| Sapienza | Top-5 in the Admission at Master's degree Honours programme. |
| Sapienza | Wanted the Best Scholarship for academic merits. |
| Roma Tre | "Collaboration Scholarship" for academic merits. |