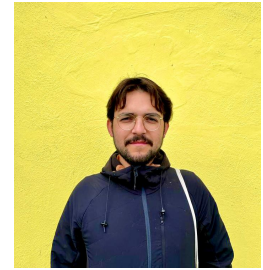


# Pedro Ruas

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## RESEARCH INTERESTS

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- Natural Language Processing
- Text Mining
- Deep Learning
- Information Extraction
- Named Entity Linking

## EXPERIENCE

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### **LASIGE (Faculty of Sciences of the University of Lisbon)**

PhD Research Fellow

Lisbon, Portugal

Oct 2020–Current

- Project: “Deep Semantic Entity Linking”
- PhD scholarship granted by FCT (Portuguese agency for science funding)

### **LASIGE (Faculty of Sciences of the University of Lisbon)**

Research fellow

Lisbon, Portugal

Aug 2019 - Sep 2020

## PROJECTS

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See full list of projects [here](#).

- **BENT: Biomedical Entity Annotator (2023)**  
Python package for NER and NEL in the biomedical domain.  
[GitHub repository](#) | [PyPi repository](#)

## EDUCATION

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### **Faculty of Sciences of the University of Lisbon**

PhD Programme in Informatics , Advisor: Francisco Couto

Lisbon, Portugal

2020–Current

### **Faculty of Sciences of the University of Lisbon**

M.S. in Bioinformatics and Computational Biology, GPA: 18/20

Lisbon, Portugal

2017–2019

- Thesis: “Exploring Biomedical Ontologies, Personalized PageRank and Semantic Similarity”

### **Institute of Tropical Hygiene and Medicine of the NOVA University of Lisbon**

M.S. in Medical Parasitology, GPA: 17/20

Lisbon, Portugal

2014–2017

- Thesis: “Association of efflux pump inhibitors with antileishmanial drugs as an alternative treatment for leishmaniasis”

### **Faculty of Sciences of the University of Porto**

B.S. in Biochemistry, GPA: 15/20

Porto, Portugal

2011–2014

## AWARDS

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- MAXDATA Informatics Award of Excellence 2020/2021
  - Award given to the best student in each PhD program/Masters/Bachelor of the Department of Informatics (Faculty of Sciences of the University of Lisbon)

## LANGUAGES

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- **Portuguese:** Native
- **English:** Full professional proficiency
- **Spanish:** Limited working proficiency
- **French:** Elementary proficiency

## SKILLS

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- **Python**
- **Machine Learning**
- **Deep Learning**
- **Bash**
- **Tensorflow**

## SELECTED PUBLICATIONS

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- [1] P. Ruas and F. M. Couto, “Nilinker: Attention-based approach to nil entity linking”, *Journal of Biomedical Informatics*, vol. 132, p. 104 137, 2022, ISSN: 1532-0464.
- [2] P. Ruas, “Deep Semantic Entity Linking”, in *Advances in Information Retrieval - 43rd European Conference on IR Research, ECIR 2021, Virtual Event, March 28 - April 1, 2021, Proceedings, Part II*, D. Hiemstra, M.-F. Moens, J. Mothe, R. Perego, M. Potthast, and F. Sebastiani, Eds., ser. Lecture Notes in Computer Science, vol. 12657, Springer, 2021, pp. 682–687.
- [3] P. Ruas, A. Lamurias, and F. M. Couto, “Linking chemical and disease entities to ontologies by integrating PageRank with extracted relations from literature”, *Journal of Cheminformatics*, vol. 12, no. 1, pp. 1–11, 2020, ISSN: 17582946.
- [4] A. Lamurias, P. Ruas, and F. M. Couto, “PPR-SSM: Personalized PageRank and semantic similarity measures for entity linking”, *BMC Bioinformatics*, vol. 20, no. 1, pp. 1–12, 2019, ISSN: 14712105.

See full list of publications [here](#).