PHD CANDIDATE · MAASTRICHT UNIVERSITY

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Professional Experience _____

Maastricht University

Maastricht, the Netherlands

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Jan. 2020 - PRESENT

- Working on social media analysis.
- Joint PhD with the Insitute of Data Science and Studio Europa.

Microsoft Munich, Germany

APPLIED DATA SCIENTIST INTERN

PHD CANDIDATE

Jun. 2019 - Dec. 2019

- Member of the Microsoft Search Technology Center.
- · Worked on Intelligent Search, exploring approaches for improving search relevance for Microsoft Teams.

Amazon Cambridge, United Kingdom

SPEECH SCIENTIST INTERN

Jul. 2018 - Jan. 2019

- Member of the Natural Language Understanding Team for Alexa.
- Worked on Multilingual Transfer Learning for Intent Classification.
- Developed approaches for leveraging English data (highly available) to train models for under-resourced languages.

University of Sheffield Sheffield Sheffield, United Kingdom

STUDENT RESEARCHER

Sep. 2017 - Jun. 2018

- Conducted research on Multimodal Machine Translation under the supervision of Prof. Dr. Lucia Specia.
- Worked with deep learning architectures for NLP.

University of Sheffield, United Kingdom

Sheffield, United Kingdom

TEACHING ASSISTANT Sep. 2017 - Jun. 2018

- · Teaching assistant for the modules: Speech Processing, Machines and Intelligence and Natural Language Processing.
- Responsible for helping the students during lab sessions and marking assignments.

Smart BR Cascavel, Brazil

TESTING INTERN Sep. 2014 - Dec. 2014

· Intern in the testing department, responsible for testing new functionalities of the system and revising the code.

Universidade Estadual do Oeste do Paraná

Cascavel, Brazil
Mar. 2012 - Aug. 2013

TEACHING ASSISTANT

- Teaching assistant for the modules: **Algorithms** and **Theory of Computation**.
- Responsible for helping the students during lab sessions and during classes.

Education __

M.Sc. in Computer Science and Computational Mathematics – Natural Language Processing Program

São Carlos, Brazil

USP(UNIVERSIDADE DE SÃO PAULO)

Mar. 2016 - Aug. 2017

- Research topic: Textual normalization of user-generated content.
- Master's Degree Scholarship granted by the Brazilian Ministry of Education (CNPq).
- Thesis: User-generated Content Textual Normalization
- Supervisor: Prof. Dr. Maria das Graças Volpe Nunes

B.Sc. in Computer Science

Cascavel, Brazil
Feb. 2011 - Dec. 2015

UNIOESTE(Universidade Estadual do Oeste do Paraná)

• One year exchange program at the Katholieke Universiteit Leuven, Belgium.

- Outstanding Student in 2015. Granted by the Brazilian Society for Computing.
- Best Computer Science Graduate of 2015. Granted by UNIOESTE.
- Bachelor thesis: Aspect Extraction-based Opinion Mining.
- Supervisor: Prof. Dr. Clodis Boscarioli



Programming Python, C/C++, Java, C#

Frameworks NumPy, Scikit-Learn, MXNet, PyTorch

Portuguese (native), English (fluent), Spanish (intermediate), German (basic) Languages

Publications

PELESent: Cross-domain polarity classification using distant supervision

PROCEEDINGS OF THE 6TH BRAZILIAN CONFERENCE ON INTELLIGENT SYSTEMS

2017

Exploring Word Embeddings for Unsupervised Textual User-Generated Content Normalization

PROCEEDINGS OF THE 2ND WORKSHOP ON NOISY USER-GENERATED TEXT AT COLING

Opinion Mining and Sentiment Analysis: an overview

PROCEEDINGS OF THE 1ST ANNUAL MEETING ON SCIENCE, TECHNOLOGY AND INNOVATION AT UNIOESTE

The SIRC Model and the Dynamics of Influenza Transmission

PROCEEDINGS OF THE 5TH MEETING ON APPLIED COMPUTING AT UNIOESTE

2012

Computational Implementation of the SIRC Model for Influenza A-H1N1 Transmission

PROCEEDINGS OF THE 21ST MEETING ON SCIENTIFIC INITIATION AT UEM

2012

The SIRC Model and the Dynamics of Influenza A-H1N1 Transmission

PROCEEDINGS OF THE 4TH MEETING ON APPLIED COMPUTING AT UNIOESTE

2011

Research Projects

Exploring Acoustic Cues for Machine Translation

United Kingdom

Sep. 2017 - Jul. 2018

Mar. 2016 - Aug. 2016

- Scholarship granted by the Faculty of Engineering of the University of Sheffield. Project supervised by Prof. Dr. Lucia Specia.
- Exploring the use of acoustic information to improve Multimodal NLP tasks mainly Machine Translation.
- · Main technical approach: fusing acoustic and textual signals with deep neural networks.

User-generated Content Textual Normalization

Brazil

MASTER'S PROJECT

RESEARCH PROJECT

• Scholarship granted by the Brazilian Ministry of Education (CNPq).

previous methods by up to 40% accuracy. All resources are publicly available at github.com/tfcbertaglia/enelvo.

· Development of natural language processing methods and tools for normalization of user-generated content. Development of a tool, named **Enelvo**, for text normalization. The tool achieved state-of-the-art results for Brazilian Portuguese, outperforming

Opinion Mining and Sentiment Analysis

Brazil

Undergraduate Project

Oct. 2014 - Oct 2015

- Tutorial Education Program Scholarship granted by the Brazilian Ministry of Education (MEC-SESU).
- Investigation of the theoretical and applied aspects of opinion mining, including the implementation of natural language processing methods.

Negative Correlation Learning and Neural Network Ensembles

Brazil

UNDERGRADUATE PROJECT

Oct. 2012 - Sep 2013

Jan. 2012 - Oct 2012

- Tutorial Education Program Scholarship granted by the Brazilian Ministry of Education (MEC-SESU).
- Investigation of negative correlation learning for training ensembles of neural networks.

Development and Integration of a Simulation Environment for Dengue Spreading

UNDERGRADUATE PROJECT

Institutional Scientific Initiation Scholarship granted by the Brazilian Ministry of Education (CNPq).

· Java implementation of network-based spreading models.

Computational Implementation of the SIRC Model for Influenza A-H1N1 Transmission

Brazil

UNDERGRADUATE PROJECT

Sep. 2011 - Jan 2012

- Institutional Scientific Initiation Scholarship granted by the Brazilian Ministry of Education (CNPq).
- C implementation of numerical methods for solving systems of differential equations for modeling Influenza transmission.

Awards & Scholarships _

AWARDS

2018	Postgraduate Researcher Experience Programme Award , Granted by the University of Sheffield	United Kingdom
2015	Best Computer Science Graduate of 2015, Granted by Universidade Estadual do Oeste do Paraná	Brazil
2015	Outstanding Student in 2015, Granted by the Brazilian Society for Computing	Brazil

SCHOLARSHIPS

2017	PhD Scholarship , Doctoral Award Studentship granted by the Faculty of Engineering of the University of Sheffield	United Kingdom
2016	Master's Degree Scholarship, Granted by the Brazilian Ministry of Education (CNPq)	Brazil
2013	Science Without Borders Undergraduate Scholarship, Granted by the Brazilian Ministry of Education (CNPq)	Belgium
2012	Tutorial Education Program (PET) Scholarship, Granted by the Brazilian Ministry of Education (MEC-SESU)	Brazil
2011	Institutional Scientific Initiation Scholarship, Granted by the Brazilian Ministry of Education (CNPq)	Brazil

Other Activities ___

Review Activities

ACL 2019, HOW2 CHALLENGE (ICML WORKSHOP), EMNLP-IJCNLP 2019, AAAI2020, AAAI2021

Dagstuhl Seminar – Joint Processing of Language and Visual Data for Better Automated Understanding

Jan. 2019

Germany

Jun. 2018

Nov. 2017

• Participated as a student.

8th Lisbon Machine Learning School - LxMLS

Lisbon, Portugal

MONITOR

PARTICIPANT

• Participated as a monitor, helping students during lab sessions and contributing to the code base.

• Grant awarded by the school committee.

SUMMA - BBC News Labs Hackathon

London, United Kingdom

PARTICIPAN[®]

PARTICIPANT

• Participated in the hackathon with a team of labmates.

7th Lisbon Machine Learning School – LxMLS

Lisbon, Portugal

Jul. 2017

• Participated as student.

1st Advanced School of Big Data Analysis

São Carlos, Brazil

Jul. 2017

Nov. 2015

Participant
• Participated as student.

V Brazilian Symposium on Computing Systems Engineering - SBESC

Foz do Iguaçu, Brazil

STUDENT VOLUNTEER

• Member of the staff as a student volunteer. Helped with the conference organization.

XIII Brazilian Symposium on Human Factors in Computer Systems - IHC'14

STUDENT VOLUNTEEL

Foz do Iguaçu, Brazil Nov. 2015

• Member of the staff as a student volunteer. Helped with the conference organization.

Teaching Coding to High School Students

Cascavel, Brazil

TEACHER

2013, 2015

A project focused on teaching basic coding to high school students from public schools.
Responsible for elaborating and teaching classes, elaborating exercises, projects and exams, and marking them.

Coding Dojo: A Fun Way of Practicing

Cascavel, Brazil

DEVNIZED

• A project focused on helping first-year Computer Science students learn coding and algorithms.

• One of the organizers. Responsible for elaborating exercises and conducting the sessions.

2013. 2015