Laura Pérez-Mayos PERSONAL INFORMATION

- PhD Student in Natural Language Processing. UPF, Barcelona
- laura.perezm@upf.edu / lpmayos@gmail.com
- https://lpmayos.github.io

ACADEMIC EDUCATION

2017 - 2021PhD on Natural Language Processing

UPF

Universitat Pompeu Fabra, Barcelona, Spain

Thesis title (provisional): In-depth exploration of the syntactic capabilities of modern language models for downstream applications

9th Lisbon Machine Learning School (LxMLS 2019) 2019

Instituto Superior Técnico, Lisbon, Portugal

ML and their application to NLP. These areas include but are not restricted to: Classification, Structured Prediction (sequences, trees, graphs), Deep Learning and Reinforcement Learning.

Master on Computer Vision 2015 - 2017

UAB, UPC, UPF, UOC (60 ECTS)

Universitat Autonoma de Barcelona, Universitat Politècnica de Catalunya, Universitat Pompeu Fabra, Universitat Oberta de Catalunya, Barcelona, Spain

Thesis title: Improving the quality of video-to-language models by an optimized annotation of the training material

Master on Intelligent Interactive Systems 2014 - 2015

UPF (60 ECTS)

Universitat Pompeu Fabra, Barcelona, Spain

Thesis title: Co-speech gesture generation for the humanoid robot REEM-C

Technical Engineer in Computer Science 2001 - 2005

UPC (183.6 ECTS)

Universitat Politècnica de Catalunya, Barcelona, Spain

Thesis title: Theclick production guide, visual directory of companies

PROFESSIONAL EXPERIENCE

NLP Pre-doctoral Researcher October 2017 - Present

http://taln.upf.edu

Syntactic capabilities of modern language models. Web development for workshops and projects. Social media management.

July 2015 - September 2017 NLP Research assistant at TALN, UPF

http://taln.upf.edu

Word Sense Disambiguation. UIMA pipelines. Web development for workshops and projects.

Web Architect at 4d-life May 2014 - September 2014

http://4d-life.net

Frontend and Backend Engineer. Analysis, architecture and development of web applications with Python and Javascript.

March 2013 - February 2014 CTO at Iskra Desenvolupament S.C.C.L.

http://www.iskra.cat

Agile leader and project manager. Analysis, design and development of web applications with Python and Plone.

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IST

March 2010 - January 2013

Web applications developer at UPCnet Inc.

http://www.upcnet.es

Analysis, design and development of web applications with Python and Plone. Analysis, design and development of e-Government applications.

February 2008 - August 2009

Web applications developer at Guell Consulting Technologies Inc.

http://www.guellconsulting.com

Analysis, design and development of web applications with Python and Plone.

February 2006 - January 2008

Web developer at SAC Disseny i Comunicacions Inc.

http://activaweb.com

Analysis, design and development of web applications based on ASP / MySQL implementation of own content manager.

RESEARCH INTERESTS

Syntactic capabilities of modern language models. Deep Learning for natural language processing.

Natural language processing for social good.

PUBLICATIONS

2021

Pérez-Mayos, Laura; Carlini, Roberto; Ballesteros, Miguel; Wanner, Leo. On the evolution of syntactic information encoded by BERT's contextualized representations. In proceedings of the European Chapter of the Association for Computational Linguistics (EACL 2021). Kyiv, Ukraine.

2019

Pérez-Mayos, Laura; Farrús, Mireia; Adell, Jordi. Part-of-Speech and Prosody-based Approaches for Robot Speech and Gesture Synchronization. Journal of Intelligent & Robotic Systems. https://doi.org/10.1007/s10846-019-01100-3

2018

Pérez-Mayos, Laura; Sukno, Federico M.; Wanner, Leo. Improving the Quality of Video-to-Language Models by Optimizing Annotation of the Training Material. International Conference on Multimedia Modeling. 1 ed. Bangkok: Cham Springer International; 2018. p. 279-290.

ACADEMIC SERVICES

Web Chair for COLING 2020.

Reviewer for COLING, EMNLP, EACL. Secondary reviewer for NAACL-HLT 2019.

UNIVERSITY TEACHING

Teaching assistant in the Computational Logic subject of the Computer Science Degree. DTIC. Universitat Pompeu Fabra, Barcelona, Spain. Academic year: 2014-2015.

INVITED TALKS

TALN Research Seminar (Universitat Pompeu Fabra, Barcelona, Spain). Host: Monica Domínguez. 9th Sep 2020. Topic: On the evolution of syntactic information encoded by BERT's contextualized representations.

TALN Research Seminar (Universitat Pompeu Fabra, Barcelona, Spain). Host: Monica Domínguez. 12th Dec 2018. Topic: Jupyter Notebook by example. Basic NLP with spaCy.

COMMUNITY

PyBCN

President of PyBCN, the Barcelona Python Association, with more than 3k members on Meetup. Our mission is to promote, educate and advance the local Python community through monthly meetups, practice sessions and specific events like PyDay and PyData.

PyladiesBCN

Coordinator of PyLadiesBCN. Our mission is to promote, educate and advance a diverse Python community through outreach, education, conferences and events.

LANGUAGES

Mother tongue(s)

Catalan and Spanish

Other language(s)

| UNDERSTANDING | | SPEAKING | | WRITING |
|---------------|---------|--------------------|-------------------|---------|
| Listening | Reading | Spoken interaction | Spoken production | |
| C1 | C1 | C1 | C1 | C1 |
| A2 | A2 | A2 | A2 | A2 |

English German

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user Common European Framework of Reference (CEF) level

PERSONAL SKILLS

Computing

Linux, OSX. Python, Java, Matlab. ROS. Neo4j, OrientDB, Solr, Mongo. HTML, CSS, JS.

Scuba diving

SSI Stress & Rescue diver. 2020. Barcelona.

SSI React Right. 2020. Barcelona.

PADI Advanced Open Water Certificate. 2018. Thailand.

PADI Open Water Certificate. 2016. Barcelona.

Interests

Books. Oceans. Mountains. Photography. Cicling.