

Martino MENSIO

BACKGROUND

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I am a PhD student, graduated in Computer Engineering, interested in Machine Learning and Explainability. I like to understand how things work and I think that Artificial Intelligence should not just be about algorithms that learn to perform complex tasks; it should be about explainable methods that enable the crowds to understand why things happen, to be able to face and remove bias, correct models and enabling the humans to improve their learning capabilities.

PROFESSIONAL EXPERIENCE

- MAY 2018-SEPT 2019** **Research Assistant at KNOWLEDGE MEDIA INSTITUTE, The Open University, UK**
May-November 2018: Under the supervision of Ilaria Tiddi and Emanuele Bastianelli, I have been working on a Natural Language Interface for an office robot in order to enable a simple exchange of commands with it. During this experience we used a LSTM-attentive network trained on specific commands for the office environment. Beyond simply extracting a label for each sentence, we analysed also the explainability of the model by looking at the attention values and comparing them with the expected values coming from the linguistic frames theory.
November 2018 - Current: I'm working on the [Co-Inform](#) european project. The objective is to create tools to foster critical thinking and digital literacy for a better-informed society. I am developing an application to perform a self-assessment of how much misinformation we are subject to on social networks.
- MAR 2017-MAR 2018** **Master's thesis project at ISTITUTO SUPERIORE MARIO BOELLA, Torino**
Deep Semantic Learning for Conversational Agents
At the conclusion of my studies at Politecnico di Torino, I have been working with [the ISMB research institute](#) for my master's thesis project, supervised by Maurizio Morisio (Politecnico) and Giuseppe Rizzo (ISMB). The goals of this research thesis are of two different natures: *i)* analyze the State of the Art in order to identify the approaches that better suit the creation of a Conversational Agent (Natural Language Understanding) *ii)* build a bot prototype that uses the selected approaches. During this period I experimented with Machine Learning, in particular with Neural Networks.
- MAR-SEP 2015** **Internship at SCLOBY SRL, Torino**
End-to-End testing and development for an AngularJS application
This internship was done in a startup developing a system for management of activities for small retailers (receipts, inventory, customers). In the first part of the internship I wrote end-to-end tests using Protractor (a framework to do automatic tests on AngularJS apps). The tests simulated the user interactions and checked the correct behaviour of the application. During the second part I moved to the development activity. Using AngularJS I implemented some functionalities of the app. I wrote some controllers, templates and directives.

EDUCATION

- OCTOBER 2018 - Current** **PhD in DATA SCIENCE**
The Open University, topic: Natural Language Processing, Misinformation.
- APRIL 2018** **Master's Degree in COMPUTER ENGINEERING**
Politecnico di Torino, Major: Software, 110L/110
GPA: 29.93/30 | [Detailed List of Exams at page 3](#)
- DECEMBER 2015** **Bachelor's Degree in COMPUTER ENGINEERING**
Politecnico di Torino, 109/110
GPA: 28,66/30 | [Detailed List of Exams at page 3](#)
- SUMMER 2012** **Scientific High School Diploma**
Liceo Scientifico "G.B. Bodoni", Saluzzo, 92/100

TECHNICAL SKILLS

Operating Systems: Linux (Ubuntu, Arch), Windows (7/8/10), MacOS
Programming Languages: C, Java, Python, JavaScript, Typescript, PHP
Databases: Relational (Oracle/SQLite/PostgreSQL) and non-relational (MongoDB)
Web: Angular, AngularJS, NodeJS, ExpressJS, Spring, Flask
Machine Learning: Natural Language Processing, Artificial Neural Networks, Deep Learning, Recurrent Neural Networks,
Word Embeddings (GloVe), TensorFlow, Keras, SpaCy
Others: Office suites (Microsoft Office, LibreOffice),
IDE (Visual Studio Code, Eclipse, Visual Studio, codeblocks)

PUBLICATIONS

April 2018: Mensio M., Rizzo G., Morisio M. "Multi-turn QA: A RNN Contextual Approach to Intent Classification for Goal-oriented Systems." In *1st International Workshop on Hybrid Question Answering with Structured and Unstructured Knowledge (HQA), The Web Conference 2018*.
April 2018: Mensio M., Rizzo G., Morisio M. "The Rise of Emotion-aware Conversational Agents: Threats in Digital Emotions." In *Re-coding Black Mirror, The Web Conference 2018*.
August 2018: Tiddi I., Bastianelli E., Mensio M., Motta E. "Allowing Exploratory Search from Podcasts: the Case of Secklow Sounds Radio." In *Posters and Demos, ISWC 2018*.
October 2018: Mensio M., Bastianelli E., Tiddi I., Rizzo G. "A Multi-layer LSTM-based Approach for Robot Command Interaction Modeling." In *Workshop on Language and Robotics, IROS 2018*.
November 2018: Piccolo L., Mensio M., Alani H. "Chasing the Chatbots: Directions for Interaction and Design Research." In *Conversations Workshop, INSCI 2018*.
October 2019: Mensio M., Alani H. "News Source Credibility in the Eyes of Different Assessors." In *Conference for Truth and Trust Online (TTO 2019)*.
October 2019: Mensio M., Alani H. "MisinfoMe: Who's Interacting with Misinformation?" In *Posters and Demos, ISWC 2019*.

CONFERENCES AND EVENTS ATTENDED

23-27 April 2018: [The Web Conference 2018, Lyon, France](#). The conference was attended to present two papers related to conversational agents.
30 July - 4 August 2018: [WSTNet Web Science Summer School 2018, Hannover, Germany](#). The summer school focused on several aspects of social science such as social mining, web and politics, legal regulations.
1-5 October 2018: [IROS 2018, Madrid, Spain](#). I presented a poster in the Language and Robotics Workshop about the LSTM-attentive parser.
15-18 December 2018: [HAI 2018, Southampton, United Kingdom](#). Attended for the *Measuring and Designing Trust Workshop* where I presented the role of explainability in Natural Language Understanding and how it can be used to convey trust from the user.
8-10 June 2019: [CogX 2019, London, United Kingdom](#). Attended two talks related to misinformation: "Deep Fakes and Disinformation" and "Countering Online Hate with Advanced Computational Methods".
25-28 June 2019: [Summer School on Computational Misinformation Analysis, King's College, London, United Kingdom](#). Attended to get a deep insight on computational approaches for measuring, analysing, predicting and contrasting misinformation online. I also presented the research work that is being carried on with the [Co-Inform](#) project.

SCHOLARSHIPS

from 2013 to 2017: Winner of yearly scholarship provided by EDISU Piemonte to university students.

Master's Degree in COMPUTER ENGINEERING

Grades

EXAM	CREDITS	GRADE
Computer architectures	10	30 cum laude
Database management systems	8	30 cum laude
Optimization methods and algorithms	6	30
Computer network technologies and services	6	29
Distributed programming I	6	30 cum laude
Software engineering	8	30
System and device programming	10	30 cum laude
Formal languages and compilers	6	30 cum laude
Distributed programming II	6	30 cum laude
Computer system security	6	30 cum laude
Information systems	6	30
Projects and laboratory on communication systems	6	30 cum laude
Internet applications	6	30 cum laude
GPA		29.93

Bachelor's Degree in COMPUTER ENGINEERING

Grades

EXAM	CREDITS	GRADE
Mathematical analysis I	10	24
English Language 1st level	3	passed
Chemistry	8	25
Digital revolution	6	28
Computer science	8	30
Geometry	10	28
Physics I	10	28
Physics II	6	27
Introduction to electrical engineering	10	30 cum laude
Algorithms and Programming	10	30 cum laude
Mathematical analysis II	8	27
Computer systems	8	30 cum laude
Mathematical methods for engineers	10	28
Systems and electronic technologies	10	28
Computer networks	8	30 cum laude
Final essay	1	30 cum laude
Operating systems	6	27
Signal theory and Signal processing	10	26
Object-oriented programming	6	30 cum laude
Automatic control	10	24
Database	6	30 cum laude
Applied Electronics and Measurement	10	30
Professional Training	10	passed
GPA		28.66