Mario Giulianelli

Personal information

Birthdate & birthplace:	6th April 1995 in Rome, Italy
Email address:	m.giulianelli.m@gmail.com

Education

2009–2014	Italian General Certificate of Education, **Diploma di maturità linguistica**, Liceo Classico Linguistico "Aristofane", Rome | Final grade: 100/100
2011-2014	French General Certificate of Education, **Diplôme du Baccalauréat Général**, Liceo Classico Linguistico "Aristofane", Rome | Final grade: 18/20
March 2012	Student exchange Brie-Comte-Robert, France
October 2012	Student exchange Glastonbury, Connecticut, USA
2014-2017	**B.A.** in **Computational Linguistics**, University of Tübingen | Final grade: 1.2 - ECTS A - First Class
since September 2017	**M.Sc.** in **Artificial Intelligence**, University of Amsterdam | Grade average: 8.6

Acknowledgements and scholarships

March 2014	*Certificat d'Inscription au Tableau d'Honneur*
	Acknowledgement for advanced knowledge of French Association des Membres de l'Ordre des Palmes Académiques
2016-2017	*Deutschlandstipendium*
	The *Deutschlandstipendium* supports highly talented students at all participating universities in Germany. The scholarship is awarded without consideration of income and nationality.
2017-2019	*Amsterdam Science Talent Scholarship*

Languages

Italian:	native language
English:	full professional proficiency | IELTS Band 8
German:	fluent | Goethe-Zertifikat B2 (grade: *sehr gut*)
French:	fluent | DELF B2

Research interests

Natural language understanding and generation
Computational sociolinguistics and pragmatics
Neural language models and representation learning

Philosophy of Artificial Intelligence and AI safety

Publications

2018   Mario Giulianelli, Jack Harding, Florian Mohnert, Dieuwke Hupkes, and Willem Zuidema. *Under the Hood: Using Diagnostic Classifiers to Investigate and Improve how Language Models Track Agreement Information.*
EMLNP 2018, Workshop on Analyzing and Interpreting Neural Networks for NLP

Presentations

26th January, 2018   Semi-supervised emotion lexicon expansion with label propagation.
CLIN28, Computational Linguistics in the Netherlands.

1st November, 2018   Under the Hood: Using Diagnostic Classifiers to Investigate and Improve how Language Models Track Agreement Information.
EMLNP 2018, Workshop on Analyzing and Interpreting Neural Networks for NLP

Thesis and Projects

B.A. Thesis   Semi-supervised emotion lexicon expansion with label propagation and specialized word embeddings.
(Grade 1.0, German equivalent of A+.)

NLP   Evaluating the syntactic competence of RAN language models.

Knowledge Representation   When intuition misfires: Hyper Sudokus are harder than standard Sudokus.

Computational Intelligence   Self driving controllers for TORCS.
Implementation of a controller for the The Open Racing Car Simulator using computational intelligence methods: feedforward and recurrent neural networks, reservoir computing, evolutionary algorithms, and swarm intelligence.

Digital Humanities   Extraction of event graphs from Kafka's short stories. Automatic annotation of emotional events and temporal relations.

Logic   Parser for logic statements with generation of truth tables and Beth-Tableaux in Java.

Psycholinguistics   Response time of German native speakers reacting to different types of foreign mispronunciations.

Work Experience

September 2015 to February 2016	**Teaching assistant** *at the University of Tübingen, Linguistics Department* Data Structures and Algorithms I (Java) lab session and correction of students' submissions
March 2016 to July 2016	**Teaching assistant** *at the University of Tübingen, Linguistics Department* Data Structures and Algorithms II (Java) lab session and correction of students' submissions **Research assistant** *at the University of Tübingen, Linguistics Department* Development from scratch of a language learning Android application focused on German speech perception
October 2016 to February 2017	**Social Media Analytics Intern** *at IBM Lab Böblingen* Development of sentiment analysis and information extraction functionalities for the IBM Watson Analytics system
November 2018 to December 2018	**Teaching assistant** *at the University of Amsterdam* Natural Language Processing 1 (Course offered in the MSc. Artificial Intelligence)

IT Competences

Programming languages:	Java, Python (advanced); Matlab, Prolog, Netlogo (intermediate); R, JAGS, JavaScript (beginner)
Markup languages:	HTML, CSS, XML, XSLT, XPath (intermediate)
Text processing:	LaTeX, Microsoft Word, LibreOffice Writer OSX Pages (intermediate)
Presentations:	Microsoft PowerPoint, LibreOffice Impress, OSX Keynote (intermediate)
Spreadsheets:	Microsoft Excel, LibreOffice Calc, OSX Numbers (intermediate)
Phonetic Analysis:	Praat (advanced)
Operating systems:	Unix-based (OSX, Ubuntu), Windows