

# MARIO GIULIANELLI

## PERSONAL INFORMATION

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BIRTHDATE & BIRTHPLACE: 6th April 1995 in Rome, Italy  
EMAIL ADDRESS: m.giulianelli.m@gmail.com

## EDUCATION

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- 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
- 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 | cum laude

## AWARDS AND SCHOLARSHIPS

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- 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**  
The *Amsterdam Science Talent Scholarship* selects students on the basis of their academic excellence and promise in the proposed field. It is renewed for a second year on the conditions of good study progress and of the conservation of an average grade of at least 8.
- NOVEMBER 2018 **Best Paper Award at EMNLP**  
Best Paper Award awarded at the Workshop on Analyzing and Interpreting Neural Networks for NLP, held in Brussels at EMNLP 2018, the conference for Empirical Methods in Natural Language Processing.
- 2019 **IAS Excellence Student 2019**  
This year, the Institute for Advance Study (University of Amsterdam) offers 9 outstanding students the chance to work on their final thesis in a stimulating environment alongside renowned researchers and talented early-career scholars.

## RESEARCH INTERESTS

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Natural language understanding and generation  
Computational semantics and pragmatics  
Neural and cognitive models of language and communication  
Learning, analysis, and interpretation of representations for language processing  
Computational sociolinguistics: Language use, variation, and change

## PUBLICATIONS

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- 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.**  
Best Paper Award at EMLNP 1st Workshop on Analyzing and Interpreting Neural Networks for NLP.
- 2018 Mario Giulianelli and Daniël de Kok. **Semi-supervised emotion lexicon expansion with label propagation.** In the 8th volume of the CLIN Journal.

## PRESENTATIONS

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- 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
- 1st February, 2019 Diagnostic Classifiers for Language Models, or something like that.  
Cool Logic Seminar. Institute for Logic, Language and Computation, Amsterdam

## THESES AND PROJECTS

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- MSc Thesis* Lexical Semantic Change Analysis with Contextualised Word Representations  
Institute for Logic, Language and Computation & Institute for Advanced Study  
University of Amsterdam, supervisors: Dr Raquel Fernández and Marco Del Tredici  
Grade 9.5 (Dutch equivalent of A+)
- BA Thesis* Semi-supervised emotion lexicon expansion with label propagation and specialized word embeddings.  
University of Tübingen, supervisor: Dr Daniël de Kok.  
Grade 1.0 (German equivalent of A+)

<i>NLP</i>	Evaluating the syntactic competence of Recurrent Additive Networks language models. University of Amsterdam
<i>Knowledge Representation</i>	When intuition misfires: Hyper Sudokus are harder than standard Sudokus. University of Amsterdam
<i>Computational Intelligence</i>	Self driving controllers for TORCS, using neural networks, reservoir computing, and evolutionary algorithms. University of Amsterdam
<i>Digital Humanities</i>	Extraction of event graphs from Kafka's short stories. Automatic annotation of emotional events and temporal relations. University of Tübingen, supervisor: Dr Magdalena Wolska
<i>Logic</i>	Parser for logic statements with generation of truth tables and Beth-Tableaux in JAVA. University of Tübingen, supervisor: Dr Verena Henrich
<i>Psycholinguistics</i>	Response time of German native speakers reacting to different types of foreign mispronunciations. University of Tübingen, supervisor: Dr Fabian Tomaschek

## WORK EXPERIENCE

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SEPTEMBER 2015 to FEBRUARY 2016	TEACHING ASSISTANT <i>at the University of Tübingen, Linguistics Department</i> Data Structures and Algorithms I (JAVA) lab session and correction of students' submissions
MARCH 2016 to JULY 2016	TEACHING ASSISTANT <i>at the University of Tübingen, Linguistics Department</i> Data Structures and Algorithms II (JAVA) lab session and correction of students' submissions  RESEARCH ASSISTANT <i>at the University of Tübingen, Linguistics Department</i> Development from scratch of a language learning Android application focused on German speech perception
OCTOBER 2016 to FEBRUARY 2017	SOCIAL MEDIA ANALYTICS INTERN <i>at IBM Lab Böblingen</i> Development of sentiment analysis and information extraction functionalities for the IBM Watson Analytics system
NOVEMBER 2018 to JANUARY 2019	TEACHING ASSISTANT <i>at the University of Amsterdam</i> Natural Language Processing 1 Course offered in the MSc Artificial Intelligence. Student feedback: grade 8.0.

## LANGUAGES

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ITALIAN: native proficiency

ENGLISH: full professional proficiency | IELTS Band 8

GERMAN: fluent | Goethe-Zertifikat B2 (grade: *sehr gut*)

FRENCH: fluent | DELF B2

## IT COMPETENCES

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Programming languages: JAVA, PYTHON (advanced);  
MATLAB, PROLOG, NETLOGO (intermediate);  
R, JAGS, JAVASCRIPT (beginner)

Markup languages: HTML, CSS, XML, XSLT, XPATH (intermediate)

Phonetic Analysis: PRAAT (advanced)