

# Gisela Vallejo

PhD Candidate in Natural Language Processing,  
interested in Automatic News Analysis, Framing, Media Bias, and Fairness

## Contact

[linkedin.com/in/giselavallejo](https://www.linkedin.com/in/giselavallejo)

## Education

### University of Melbourne

Ph.D. candidate

Topic: Framing in News Articles

Aug 2021- expected April 2025

Melbourne, Australia

### University of Stuttgart

M.Sc., Computational

Linguistics (with distinction)

Apr 2016- Dec 2017

Stuttgart, Germany

### University of Stuttgart

B.Sc., Natural Language

Processing

Oct 2010 - Apr 2016

Stuttgart, Germany

### University of Quindío

Dipl., Modern Languages

Jan 2003 - Dec 2008

Armenia, Colombia

## Skills & Interests

### Programming

Python, Java, SQL, SHell (fluent)

### Software Tools &

#### Frameworks

HuggingFace, IntelliJ, Eclipse, GIT,

scikit-learn, PyTorch, Docker,

Keras, Jupyter Notebooks, spacy

### Interests

Framing, Media Bias, Fairness,

News Analysis

### Languages

Spanish (native)

English, German (fluent)

French, Italian, Portuguese (basic)

### Service

Jul 2023, Co-organizer at the Student

Research Workshop at ACL 2023

(ACL-SRW 2023)

Jul 2019, Tutor at the Lisbon

Machine Learning School

(LxMLS 2019) Best tutor award

Jun 2018, Tutor at the Lisbon

Machine Learning School

(LxMLS 2018)

## Work Experience

### UKP Lab TU Darmstadt | Natural language processing researcher

Jan 2019 - Feb 2021 | Darmstadt, Germany

- Exploring new deep neural network architectures for fact checking
- Evaluating and analyzing obtained models on existing datasets
- Conducting a crowdsourcing task for paraphrasing over 16k claims
- Organizing a regular research seminar including guest talks
- Preparing teaching materials and assignments for a course with over 150 students

### Novatec Consulting GmbH | Machine learning consultant

Apr 2018 - Dec 2018 | Echterdingen, Germany

- Supervised three master and bachelor thesis students
- Participated as lecturer at machine learning events, e.g. summer schools, seminars and workshops with more than 12 attendees.
- Developed deep learning based prototypes as solutions for several customers

### Daimler AG | User experience intern

Jun 2016 - Dec 2017 | Böblingen, Germany

- Analyzed user study data to specify new features in the In-Car dialog system
- Automated data annotation processes in Python
- Tested In-Car dialog systems' performance
- Designed and conducted user studies

### Sony GmbH | Software engineer intern (graduation project)

Oct 2015 - Apr 2016 | Stuttgart, Germany

- Analyzed a machine learning-based converter for dependencies into phrase structures
- Designed and executed the evaluation of the converter
- Maintained the project documentation

### Mercedes-Benz Research & Development North America Inc. |

#### User interaction intern

Sep 2013 - Sep 2014 | Sunnyvale, California, USA

- Developed a tool in Python used to migrate data from Excel to XML
- Drafted, reviewed and updated user flow specification documents
- Designed and pitched the idea of an activity-finding app to the company's senior managers as part of a business incubator program.

## Publications

### AMBIFC: Fact-Checking Ambiguous Claims with Evidence,

Max Glockner, Ieva Staliunaite, James Thorne, Gisela Vallejo, Andreas Vlachos, Iryna Gurevych. (TACL), 2023. (to appear)

### Evaluating the Examiner: The Perils of Pearson Correlation for

Validating Text Similarity Metrics, Gisela Vallejo, Timothy Baldwin, Lea Frermann. (ALTA), 2022.

### An Annotation Protocol for Collecting User-Generated

Counter-Arguments using Crowdsourcing, Paul Reisert, Gisela Vallejo, Naoya Inoue, Iryna Gurevych, and Kentaro Inui, (AIED), 2019.

### Context-aware Neural-based Dialog Act Classification on

Automatically Generated Transcriptions, Daniel Ortega, Chia-Yu Li, Gisela Vallejo, Pavel Denisov, Thang Vu, (ICASSP), 2019