


# HYEWON JANG

Doctoral Researcher in Computational Psycholinguistics

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 Website  Google Scholar  Github

## Research Interests

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### Topics

#### General

Computational linguistics, artificial intelligence, experimental linguistics, psycholinguistics, discourse, dialogue, pragmatics, cognitive modeling, human communication

#### Specific

Sarcasm, humor, impoliteness, indirectness, implicit meaning, context, inference, speaker intention, multimodal information

### Methodologies

Experiment design, language models, statistical analysis, qualitative analysis, quantitative analysis

## Education

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*Expected 2025*

### **University of Konstanz**

PhD in Computational Psycholinguistics

Advisors: Dr. Diego Frassinelli, Prof. Dr. Bettina Braun

08/2021

### **University of Konstanz**

MA in Speech and Language Processing

*very good with distinction - 1.1 out of 1 (very good) - 5 (fail)*

02/2017

### **Seoul National University**

BA in English Education


(Minor in Hispanic Language and Literature)

*Cum laude - 3.7/4.3 (93 out of 100)*


## Publications

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### PhD dissertation


Submitted       **Computational Sarcasm Detection Examined Through the Lens of Psycholinguistics**


### Peer-reviewed publications


Accepted      w/  **The morphology and syntax of an anti-honorific prefix in Korean**  
minor revision


Colin Davis & **Hyewon Jang**  
*In The Grammar of Impoliteness. Trends in Linguistics, De Gruyter.*


Under review       **The Influence of Affect on Sarcasm Failure in Human Communication and its Representation in Language Models**  
**Hyewon Jang** & Diego Frassinelli  
*ACL Rolling Review.*

Under review       **Contextual factors that trigger sarcasm**  
**Hyewon Jang**, Bettina Braun & Diego Frassinelli  
*Metaphor and Symbol.*



2024       **Generalizable sarcasm detection is just around the corner, of course!**  
**Hyewon Jang** & Diego Frassinelli  
*Proceedings of the 2024 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL 2024).*

2024       **Context vs. Human Disagreement in Sarcasm Detection**  
**Hyewon Jang**, Moritz Jakob & Diego Frassinelli  
*Proceedings of the 4th Workshop on Figurative Language Processing (FigLang) @ NAACL 2024, Association for Computational Linguistics.*

2023       **Figurative Language Processing: A Linguistically Informed Feature Analysis of the Behavior of Language Models and Humans**  
**Hyewon Jang\***, Qi Yu\*, & Diego Frassinelli (\*equal contribution)  
*Findings of the Association for Computational Linguistics: ACL 2023 (ACL Findings).*  
[Presented at The 12th Joint Conference on Lexical and Computational Semantics (\*SEM 2023).]

2023       **Intended and Perceived Sarcasm Between Close Friends: What Triggers Sarcasm and What Gets Conveyed?**  
**Hyewon Jang**, Bettina Braun & Diego Frassinelli  
*Proceedings of the 45th Annual Conference of the Cognitive Science Society (CogSci 2023).*

## Other publications

- 2022  **Lexicon-Based Profiling of Irony and Stereotype Spreaders**  
Hyewon Jang  
*Conference and Labs of the Evaluation Forum (CLEF 2022)*, September 5–8, 2022, Bologna, Italy.
- 2022  **Capturing Changes in Mood Over Time in Longitudinal Data Using Ensemble Methodologies**  
Ana-Maria Bucur, **Hyewon Jang** & Farhana Ferdousi Liza  
*Workshop on Computational Linguistics and Clinical Psychology @ North American Association for Computational Linguistics (NAACL 2022)*, July 10-15, 2022, Seattle, USA (online).

## Presentations

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### Peer-Reviewed by Abstracts

- 09/2024 **Detecting sarcasm using LLMs when sarcasm is way too broad**  
Hyewon Jang & Diego Frassinelli  
*Architectures and Mechanisms for Language Processing (AMLaP 30)*, Edinburgh, Scotland.
- 06/2024 **A type of sarcasm that current theories fail to explain – evidence from sarcasm**  
Hyewon Jang  
*Experiments in Linguistic Meaning 3 (ELM 3)*, University of Pennsylvania, Philadelphia, USA (online).
- 09/2023 **What predicts the use of sarcasm?**  
Hyewon Jang, Bettina Braun, Diego Frassinelli  
*7th Figurative Thought and Language Symposium (FTL-7)*, Genoa, Italy.
- 09/2023 **What types of situations trigger sarcasm? A language generation study.**  
Hyewon Jang, Bettina Braun, Diego Frassinelli  
*Architectures and Mechanisms for Language Processing (AMLaP 29)*, San Sebastian, Spain.
- 07/2023 **What triggers sarcasm between close friends and what role does humor play in it?**  
Hyewon Jang  
*International Society of Humor Studies Conference 2023 (ISHS 2023)*, Boston University, Boston, USA.
- 06/2023 **Vulgar verbal morphology in colloquial Korean and beyond**

Colin Davis, Hyewon Jang  
*The 23rd Biennial Meeting of the International Circle of Korean Linguistics (ICKL 2023), Palacký University Olomouc, Czech Republic.*

## Invited Talks

- 11/2024      **Computational sarcasm detection through the lens of psycholinguistics**  
Hyewon Jang  
*Invited talk at the Department Colloquium, University of Konstanz, Germany.*
- 04/2024      **Towards well-rounded sarcasm handling by language models**  
Hyewon Jang  
*Invited talk at MaiNLP Lab (led by Barbara Plank) @ Ludwig Maximilian University of Munich, Germany.*

## Work Experience

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- 2020 – 2021      **Aon's Assessment Solution, Aon**      Hamburg, Germany  
*Intern at Product Development & Global Analytics*  
■ Interdisciplinary research to improve an AI-based video interview product  
■ Combination of Natural Language Processing (NLP) methods with psychometric approaches on personality measurement  
■ Projects: Data quality improvement (feature inspection), Equal Employment Opportunity Commission (EEOC) handling (addressing bias and ethics), data annotation
- 2017 – 2018      **Jeongsang Language School**      Seoul, Korea  
*ESL teacher*  
■ English teaching to students ages 9 -15

## Teaching

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- 2024      **Current topics and methodologies in computational linguistics**  
Main instructor [Co-teaching with Diego Frassinelli]  
Graduate-level seminar  
*Average student rating: 5/5.*  
University of Konstanz
- 2023      **Corpus Linguistics with Python**  
Main instructor [Co-teaching with Diego Frassinelli]  
Graduate-level seminar  
*Average student rating: 4.1/5.*  
University of Konstanz

## Awards and Grants

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2024	<b>Travel stipend at FigLang 2024</b> Stipend for participation at the workshop FigLang 2024 (2,000 USD) <i>The U.S. National Science Foundation (NSF)</i>
2022	<b>Student grant at CLEF 2022</b> Grant for participation at the conference CLEF 2022 (400 EUR) <i>Special Interest Group on Information Retrieval (SIGIR)</i>
2022	<b>The Doctoral Fund</b> Funding for participation in academic events (3,200 EUR) <i>University of Konstanz</i>
2022	<b>VEUK Award 2021</b> Award for outstanding performance in MA program <i>Alumni association of the University of Konstanz (VEUK e.V)</i>
2021	<b>DAAD Award 2021</b> (nominated) <i>German Academic Exchange Service (DAAD)</i>

## Service

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### Reviewing

2024	<b>ACL Rolling Review (ARR<sub>October</sub>)</b>
2024	<b>Language Resources and Evaluation</b>
2024	<b>ACL Rolling Review (ARR<sub>June</sub>)</b>
2024	<b>ACL Rolling Review (ARR<sub>Feb</sub>)</b>
2024	<b>Cognitive Science Society (CogSci)</b>

### University Internal

2023 – 2024	<b>Computational Linguistics Reading Group</b> Organizer University of Konstanz
2023 – 2024	<b>Computational Linguistics Lab</b> Lab/website manager Lab schedule organization, website maintenance University of Konstanz
2022 – 2024	<b>Konstanz Linguistics Conference</b> Co-organizer University of Konstanz
2022 – 2023	<b>Computational Psycholinguistics and Artificial Intelligence</b>

Computational linguistics research and discussion group  
Co-organizer  
University of Konstanz

## Other Education

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| 2023 | <b>Seventh Summer School on Statistical Methods for Linguistics and Psychology (SMLP)</b><br>University of Potsdam, Germany   |
| 2022 | <b>European Summer School in Logic, Language and Information (ESS-LLI)</b><br>National University of Ireland, Galway, Ireland |

## Skills

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### **Python (all-purpose programming language)**

Machine learning, deep learning, language models  
Data science, corpus linguistics, data scraping  
Visualization of data (graphs, plots, etc.)

### **R (programming language for statistical analysis)**

Statistical analysis, text data processing, visualization of statistical models and results

### **FindingFive, Gorilla (experiment set-up tools)**

Experiment design, crowdsourcing experiments

### **HTML (markup programming language)**

Simple website creation

## Languages

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<b>Korean</b>	Native
<b>English</b>	Near-native
<b>German</b>	Intermediate passive knowledge
<b>Spanish</b>	Rusty intermediate

## References

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<b>Dr. Diego Frassinelli</b>	Ludwig-Maximilian University of Munich	frassinelli@cis.lmu.de
<b>Prof. Dr. Bettina Braun</b>	University of Konstanz	bettina.braun@uni-konstanz.de