



## Eleonore Lumer

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### Contact

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## Academic Education

### **Master in Linguistics with major in computational linguistics**

**Bielefeld University | October 2018 - 2020**

- Thesis topic: "Integrating speaker-hearer relations into a cognitive model for politeness" ([Lumer & Buschmeier, 2022](#))

### **Erasmus+**

**Norwegian University of Science and Technology, Trondheim |**

**August - December 2016**

### **B.A. Culture and Economics**

**University of Mannheim | 2014 - 2017**

- Major in English and American studies, minor in business administration

- Thesis topic: "How presupposition & hyponymy affect first and second language processing and semantics in marketing communication: An eye-tracking study"

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## Work Experience

### **PhD Student and Researcher at the Digital Linguistics Lab**

**Bielefeld University | April 2021 - Today**

- Research fields: Modeling linguistic politeness; social influences on politeness; linguistic politeness in Human-Robot interaction

- Research questions: How can we model social influences on politeness? Are there expectation differences for politeness in HRI compared to HHI? Difference between expectation and perception of politeness in HRI.

- Supervisor: JProf. Dr. Hendrik Buschmeier

### **Visiting Researcher**

**Linköping University, Sweden | February 2024**

- Research stay at Linköping University visiting Dr. Hannah Pelikan (Department of Culture and Society) (Financed by Erasmus+)

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## Teaching | Bielefeld University

- Evaluating conversational agents (MA level) | Summer 2023, 2024

- Politeness in conversational agents (BA level) | Winter 2023, 2024

- Modelling politeness in human-machine interaction (MA level) | 2022

- Markup languages (HTML, XML) (MA level) | Summer 2021, 2022

- Information structure (XML, XPath) (MA level) | 2021, 2022, 2023

## Academic Service

### Student Volunteer

19th Annual ACM/IEEE International Conference on Human Robot Interaction (HRI), Boulder, CO, USA | 11-15th March 2024

### Conference Organization | Organizer

31st Conference of the Student Organization of Linguistics in Europe (ConSOLE23), Bielefeld, Germany | 22-24th February 2023

### Reviewing

- SIGDIAL: Meeting of the Special Interest Group on Discourse and Dialogue | 2021
- ACM International Conference on Intelligent Virtual Agents | 2021, 2023
- ACM/IEEE International Conference on Human-Robot Interaction | 2022
- SORO: International Journal of Social Robotics | 2022, 2023
- COGSCI: Meeting of the Cognitive Science Society | 2023

## Publications

Lumer, E. (2024). Modeling Politeness in Human–Robot Interaction. In: HRI '24 Companion, March 11–14, 2024, Boulder, CO, USA. doi: 10.1145/3610978.3638369

Lachenmaier, C., Lumer, E., Buschmeier, H., Zariß, S. (2024). Towards Understanding the Entanglement of Human Stereotypes and System Biases in Human–Robot Interaction. In: HRI '24 Companion, March 11–14, 2024, Boulder, CO, USA. doi: 10.1145/3610978.3640736

Lumer, E., & Buschmeier, H. (2023). Should robots be polite? Expectations about politeness in human–robot interaction. *Front. Robot. AI* 10:1242127. doi: 10.3389/frobt.2023.1242127

Lumer, E., Lachenmaier, C., Zariß, S., & Buschmeier, H. (2023). Indirect politeness of disconfirming answers to humans and robots. In IEEE (Ed.), *Proceedings of the 32nd IEEE International Conference on Robot and Human Interactive Communication (Ro-Man)*

Lumer, E., & Buschmeier, H. (2022). Modeling Social Influences on Indirectness in a Rational Speech Act Approach to Politeness. In: *Proceedings of the 44th annual conference of the cognitive science society*. Cognitive Science Society.

Lumer, E., & Buschmeier, H. (2022, March). Perception of Power and Distance in Human–Human and Human–Robot Role-Based Relations. In *Proceedings of the 2022 ACM/IEEE International Conference on Human-Robot Interaction* (pp. 895–899).

Lumer, E., & Buschmeier, H. (2021). Integrating Speaker–Hearer Relations Into a Rational Speech Act-based Model of Politeness.

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## Presentations

Lumer, E. (23. May 2024) Combining first- and second-order politeness: Lay peoples' insights on human–human and human–robot interaction. Presented at the XI International Symposium on Intercultural, Cognitive and Social Pragmatics (EPICS). Sevilla, Spain. [TALK]

Lumer, E. (24. April 2024) A model for politeness production: Adaptive and rule-governed politeness. Presented at the Linguistik Kolloquium at Bielefeld University. [INVITED TALK]

Lumer, E. (2024). Modeling Politeness in Human–Robot interaction. 9th Human-Robot Interaction Pioneers Workshop at 2024 ACM/IEEE HRI. March 11, 2024, Boulder, CO, USA. [POSTER]

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## Languages

**German**  
Native language

**Italian**  
Native language

**English**  
Level C1 (Toefl iBT score 110, 2018)

**Spanish**  
Level B2/C1

**French**  
Level B1

## Presentations

Lachenmaier, C., Lumer, E., Buschmeier, H., Zarriß, S. (2024). Towards Understanding the Entanglement of Human Stereotypes and System Biases in Human–Robot Interaction. LBR at 2024 ACM/IEEE HRI. March 11, 2024, Boulder, CO, USA. [POSTER]

Lachenmaier, C., Lumer, E. (21. March 2024) Indirect disconfirmations in HRI and HHI: A mixed methods approach inspired by Conversation Analysis. Presented together with Lachenmaier, C. at the Arbeitstagung zur Gesprächsforschung. Jena, Germany. [INVITED TALK]

Lumer, E. (22. February 2024) Modeling politeness in human–robot interaction, COIN (Cognition & Interaction) Seminar Linköping University, Sweden. [INVITED TALK]

Lachenmaier, C., Lumer, E. (2023). Mutual reinforcement of automation bias and the effects of unconscious bias. SAIL Workshop on fundamental limits of Large Language Models. November 23, 2023. Bielefeld University, Germany. [POSTER]

Lumer, E. (13. July 2023) Expectations of and influences on politeness: Lay perspectives in the context of human–human and human–robot interaction. Presented at the 18th International Pragmatics Conference. Brussels, Belgium. [TALK]

Lumer, E. (2023). Politeness in Human–Robot Interaction: A multi-perspectives approach. Presented at the 4th Summer School on Social Human–Robot Interaction. September 18–23, 2023, Poland. [POSTER]

Lumer, E., Lachenmaier, C. (04 July 2023) Analysis of indirectness in disconfirming answers towards humans and robots. Presented at the 14th Symposium on Politeness. Funchal, Portugal. [TALK]

Buschmeier, H., Lumer, E. (27 September 2022). Politeness for artificial conversational agents: Computational modelling and human expectations. Brown Bag Session, iHub, Radboud University, Nijmegen, NL. [INVITED TALK]

Lumer, E., & Buschmeier, H. (2022). Modeling Social Influences on Indirectness in a Rational Speech Act Approach to Politeness. Presented at the 44th annual conference of the cognitive science society. Toronto, Canada. [POSTER]

Lumer, E., & Buschmeier, H. (2021). Integrating speaker–hearer relations into a Rational Speech Act-based model of politeness. Presented at the Computational Cognition 2021, Osnabrück, Germany. [POSTER]

Lumer, E. (2021). Politeness in HRI - current research. Presented at the 17th Workshop on Spoken Dialogue Systems for PhDs, PostDocs & New Researchers (YRRSDS). Singapore, Singapore. [POSTER]