



Eleonore Lumer

Contact

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Academic Education

PhD Candidate in Computational Linguistics

Bielefeld University | April 2021 - Today

PhD Dissertation title: *Face off: Linguistic perspectives on politeness in human-robot interaction*

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)

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"
- ERASMUS + stay in Trondheim, Norway at the Norwegian University of Science and Technology

Work Experience

Visiting Researcher

Heriot-Watt University, Scotland | April 2025 - Today

Research stay at National Robotarium at Heriot-Watt University visiting Dr. Marta Romeo (Department of Mathematics and Computer Science)

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+)

Teaching | Bielefeld University

- Evaluating conversational agents (MA level) | Summer 2023, 2024, 2025
- Politeness in conversational agents (BA level) | Winter 2023, 2024, 2025
- 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

Languages

German

Native language

Italian

Native language

English

Level C1 (Toefl iBT score 110, 2018)

Spanish

Level B2/C1

French

Level B1

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., Zarriß, 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., Zarriß, 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.

Invited Talks

Lumer, E. (6. May 2025) Linguistic perspectives on politeness in human–robot interaction. Presented at Discourse Group Meeting at Tel Aviv University, Online.

Lumer, E. (30. April 2025) Linguistic perspectives on politeness in human–robot interaction. Presented at Interaction Lab Meeting at Heriot–Watt University, Edinburgh, Scotland.

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

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.

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

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

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.

Conference Presentations and Talks

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. ([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]

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. (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]

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]

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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]