Eleonore Lumer

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Education

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+)

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"

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., Zarrieß, 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., Zarrieß, 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)

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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

Additional Qualifications

Programming Skills:
First experiences in programming with Python, R and WebPPL

Software Skills:
Microsoft Office, LaTeX, Adobe Photshop, GoogleAds, ECM-Systems, XML, Query

Europa Intensiv:
Interdisciplinary University Program on the EU (politics, sociology, law and economics)

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.

Conference Talks and Invited Talk

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

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. 09-14 July 2023.

Analysis of indirectness in disconfirming answers towards humans and robots. Presented at the 14th Symposium on Politeness. Funchal, Portugal. 03-05 July 2022.

Teaching | Bielefeld University

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

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Posters

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.

Lachenmaier, C., **Lumer, E.**, Buschmeier, H., Zarrieß, 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.

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.

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.

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.

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.

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.

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