

Amit Singh, M.Sc.

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🌐 Amit Singh

Experience

Research

2021 – present 📖 **Research Assistant, SFB-TRR318, Universität Paderborn**
„Constructing Explainability“, Projekt A05, Contextualized and online parametrization of attention in human–robot explanatory dialog ([link](#))

Industry

2017 – 2018 📖 **Translation Associate - German (full-time)**, Amazon Development Center, Bangalore, India


Education

- 2021 – present 📖 **Universität Paderborn, Paderborn, Germany**
PhD in Psycholinguistics (ongoing)
Supervision: Prof. Dr. Katharina Rohlfing
- 2018 – 2020 📖 **University of Hyderabad, Hyderabad, India**
M.Sc. Cognitive Science, (Distinction, 9.12/10 gpa.)
Major: Psycholinguistics
Minor: Pattern Recognition
Dissertation: *Influence of interlocutor identity on bilingual language selection - An eye-tracking study* (Supervision: Prof. Ramesh Kumar Mishra)
- 2014 – 2017 📖 **Jawaharlal Nehru University, New Delhi, India**
B.A.(Hons.), Germanistik
Major: Linguistics
- 2013 – 2014 📖 **Delhi College of Arts and Commerce, University of Delhi, Delhi**
Zertifikat auf Deutsch (A1)
- 2001 – 2013 📖 **Central Board of Secondary Education (CBSE), New Delhi**
Senior Secondary School Examination, Class 12th
Stream : Science (Physics, Mathematics, Chemistry, English)


Research Publications

Conference Proceedings

- 1 A. Singh and K. J. Rohlfing, “Coupling of Task and Partner Model: Investigating the Intra-Individual Variability in Gaze during Human–Robot Explanatory Dialogue,” in *26th ACM International Conference on Multimodal Interaction (to appear, ICMI 2024)*, San Jose, Costa Rica, 2024. 🌐 URL: <https://doi.org/10.1145/3686215.3689202>.

- 2 A. Singh and K. J. Rohlfing, "Contrastiveness in the context of action demonstration: An eye-tracking study on its effects on action perception and action recall," in *Proceedings of the Annual Meeting of the Cognitive Science Society (CogSci 2023)*, vol. 45, Sydney, Australia, 2023.  URL: <https://escholarship.org/uc/item/2w94t4cv>.
- 3 A. Singh and K. J. Rohlfing, "Does contrastive attention guidance facilitate action recall? an eye-tracking study," in *Proceedings of KogWis2022, the 5th Biannual Conference of the German Society for Cognitive Science*, E. Ferstl, L. Konieczny, R. von Stülpnagel, J. Beck, and L. Zacharski, Eds., Albert-Ludwigs-Universität Freiburg, Freiburg, Germany, Sep. 2022.
- 4 A. Singh and K. J. Rohlfing, "Negation processing in action: How action path is interpreted in a negated context?" In *Book of Abstracts - XPRAG 2022*, F. Frau, L. Bischetti, C. Pompei, B. Scalingi, F. Domaneschi, and V. Bambini, Eds., 2022.





Journal Articles

- 1 A. Singh and K. J. Rohlfing, "Contrastive verbal guidance and its impact on goal attention and action memory," *Language, Cognition and Neuroscience (under review)*, 2024.
- 2 A. Groß, A. Singh, N. C. Banh, *et al.*, "Scaffolding the human partner by contrastive guidance in an explanatory human-robot dialogue," English, *Frontiers in Robotics and AI*, vol. 10, Oct. 2023, ISSN: 2296-9144.  DOI: 10.3389/frobt.2023.1236184.

Invited Talks


- 1 Physics of Cognition Group, TU Chemnitz, December 2023.

Skills




Languages	 German (Fluent, CEFR B2.2) English (Proficient) Hindi (Native)
Coding	 R (Expert, Inferential Statistics, Linear and Nonlinear Modelling, Bayesian Analysis) Python (Intermediate, Sklearn, Machine learning), Git console, \LaTeX publishing
Tools	 Remote and Mobile Eyetracking, TobiiPro (Screen based), PupilPro Lab (Glasses)
Misc.	 NAO Robot programming and conducting behavioural experiments in HRI

Other Experiences



Awards and Achievements

- Dec 2020  **Junior Research Fellow (JRF)**
Awarding body : University Grants Commission

Certification and Internships

- 2019  **Research Intern, Software Engineering Research Center, IIIT Hyderabad**
Version control (Github), open source development, testing and implementing a JavaScript based speech signal application
- Mar 2021  **Machine Learning**, Coursera
- Apr 2021  **Natural Language Processing with Classification and Vector Spaces**, Deeplearning.ai

Extracurricular Achievements

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| Dance |  Winner, 1st prize , Solo Dance, Sukoon Annual Fest, University of Hyderabad, 2019
Winner, 1st prize , Solo Dance, Amazon RBS Bash, Amazon, 2017
Elected Convener , JNU Dance Club (JNU, New Delhi), 2014 - 2015 |
| Volunteering |  Volunteer , MaRRS International Spelling Bee Competition, Osmania University, 2015
Volunteer , Workshop on Cognitive Science in Education, UoH, Hyderabad, 2019 |

References

On request