

# Amit Singh, M.Sc.

✉ amit.singh@uni-paderborn.de

🌐 <https://amits1ngh.github.io>

📧 @amits1ngh

📞 +49 17640425390

🌐 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](#))

## 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


### Industry

2017 – 2018	 <b>Translation Associate - German (full-time)</b> , Amazon Development Center, Bangalore, India
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### Services

Reviewer	 <b>Journal</b> Cognitive Science Society Open Psychology
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### Awards and Achievements

Dec 2020	 <b>Junior Research Fellow (JRF)</b> Awarding body : University Grants Commission
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## Other Experiences (continued)



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### 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

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On request