

Akhilesh Kakolu Ramarao

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EMPLOYMENT

- 2021– **Heinrich-Heine-Universität Düsseldorf**
Wissenschaftlicher Mitarbeiter, Department of English Language and Linguistics
- 2019–20 **Civicalab**
Natural Language Processing (NLP) Researcher
- 2017–19 **Skit.ai**
Software Engineer
- 2017 **Ramco Systems**
Software Engineer

EDUCATION

- M.A. General Linguistics, Heinrich-Heine-Universität Düsseldorf, Germany, 2022–2024
- B.Engg. Automobile Engineering, Dayanand Sagar College of Engineering, India, 2012–2016

RESEARCH AREAS

Computational Morphology, Language Revitalization

PUBLICATIONS

Journal Articles

- 2024 Muschalik, J., Schmitz, D., **Kakolu Ramarao, A.** *et al.* Typing /s/—morphology between the keys? *Reading and Writing* (2024).
<https://doi.org/10.1007/s11145-024-10586-9>

Conference Proceedings

- 2024 **Kakolu Ramarao, A.**, Petersen, W., Stein, A., Stein, E., & Xia, H. (2024). KlarTextCoders at StaGE: Automatic Statement Annotations for German Easy Language. In *Proceedings of*

- GermEval 2024 Shared Task on Statement Segmentation in German Easy Language (StaGE)* (pp. 15–27), Vienna, Austria. Association for Computational Linguistics.
<https://aclanthology.org/2024.germeval-1.2.pdf>
- 2023 Jeong, C., Schmitz, D., **Kakolu Ramarao, A.**, Stein, A., & Tang, K. (2023). Linear discriminative learning: a competitive non-neural baseline for morphological inflection. In *Proceedings of the 20th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology* (pp. 138-150). Association for Computational Linguistics.
<https://doi.org/10.18653/v1/2023.sigmorphon-1.16>
- 2022 **Kakolu Ramarao, A.**, Zinova, Y., Tang, K., & van de Vijver, R. (2022). HeiMorph at SIGMORPHON 2022 shared task on morphological acquisition trajectories. In *Proceedings of the 19th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology* (pp. 236-239). Association for Computational Linguistics.
<https://doi.org/10.18653/v1/2022.sigmorphon-1.24>

Under Review

- 2024 **Kakolu Ramarao, A.**, Tang K. & Baer-Henney D. [ANONYMIZED]. *Association for Computational Linguistics*
- 2024 Merchant R., **Kakolu Ramarao A.** & Tang K. Connecting the Persian-speaking world through transliteration

TALKS

Peer-reviewed Talks

- 2024 “Community-driven Language Revitalization: Translating Children’s Literature in K’man Mishmi” at the International Conference on Language, Ecology and Culture 2024, NEILAC, Guwahati, India. [Slides](#)
- 2024 “KlarTextCoders at StaGE: Automatic Statement Annotations for German Easy Language” at the Konferenz zur Verarbeitung natürlicher Sprache (KONVENS) 2024, University of Vienna, Austria.
- 2024 “A computational approach to understanding the cognitive reality of morphomic patterns: the case of L-shaped morphemes in Spanish” at the Annual Meeting of Linguistics Association of Great Britain and Northern Ireland 2024, Newcastle University, United Kingdom. [Slides](#)
- 2024 “Acoustic Analysis of Vowels in Idu Mishmi” at the 27th Himalayan Languages Symposium, IIT Guwahati, India
- 2023 “From Zero to Terminal Hero” at the 32nd Tagung der Computerlinguistik-Studierenden (TaCoS), Heinrich Heine University, Düsseldorf, Germany. [Slides](#)
- 2023 “Can Neural Networks learn human-like behavior when inflecting verbs? The case of Spanish” at the Five-Minute Linguist competition, Linguistic Society of America 97th Annual Meeting
- 2023 “Modeling irregular morphological patterns using Transformers” at the HeiCAD Lightning Talks, Heinrich Heine University, Düsseldorf, Germany

Invited Talks

- 2021 “Language Revitalization: A case of Idu Mishmi” at the Microsoft Research India
- 2021 “Language Revitalization” at the Navana Tech

POSTER PRESENTATIONS

Peer-reviewed Presentations

- 2024 **Kakolu Ramarao, A.**, & Stein, A. S. AnglistikVoices: an L2 English speech dataset for educational and technological advancement in speech technology. LabPhon 19, Hanyang University, Seoul, South Korea. [Poster](#)
- 2023 Muschalik, J., Schmitz, D., **Kakolu Ramarao, A.**, & Baer-Henney, D. Acoustic duration and typing timing - same, same... but different? Phonetics and Phonology in Europe 2023, Nijmegen, Netherlands
- 2023 Tang, K., **Kakolu Ramarao, A.**, & Baer-Henney, D. Modeling irregular morphological patterns with recurrent neural network: the case of the L-shaped morpheme. 13th Mediterranean Morphology Meeting, University of the Aegean, Greece

TEACHING

Heinrich-Heine-Universität Düsseldorf

- Winter 2024 LLMs in Linguistic Research
- Summer 2024 Learning Inflection
- Winter 2023 Accent unplugged: Evaluating Voice assistants
- Summer 2023 Synthesizing speech
- Winter 2022 Language technology for Linguists with Internet of Things (IoT)
- Winter 2022 LaTeX for Linguists
- Summer 2022 Towards a career in language technology: linguistic annotation
- Winter 2021 Basic Skills in Digital Humanities

GRANTS AND AWARDS

- 2022 Hardware Grant. 20 × NVIDIA® Jetson™ Nano Developer Kits. NVIDIA Academic Hardware Grant, “FOSStering Digital Humanities through Accent Diversity & Conversational Devices”. Co-applicant: Kevin Tang
- 2022 Education Grant. €9,424. e-Learning support fund, Heinrich-Heine University Düsseldorf. “Interactive web-based review units for phonetics and phonology”. Co-applicant: Christopher Geissler and Kevin Tang
- 2022 **First prize** at the HHU Legal Hackathon, Heinrich-Heine-Universität. Team: Akhilesh Kakolu Ramarao, Phaedon Paschalis and Diana Schill
- 2022 **First prize** at the HeiCAD Lightning Talks, Heinrich-Heine-Universität

CONSULTING

- 2020-2021 XRI Institute
- 2020-2021 Vrook

SKILLS

Recent experience: Python, Bash, LaTeX, Scheme, Julia

Past experience: Haskell, Dart, JavaScript (AngularJS)

Frameworks: PyTorch, Flutter

Platforms: Arch linux, Ubuntu

Cloud: AWS, GCP, High-performance computing (HPC)

VOLUNTEERING

2021- **Idu Mishmi Cultural and Literary Society (IMCLS)**
Chief Coordinator

2021- **Lohit Youth Library Network**
Volunteer

CONFERENCE/WORKSHOP ORGANIZATION

2023 Translation Workshop: English to K'man Mishmi, Bamboosa Library, Tezu, Arunachal Pradesh, India

2022 LibreSlam - Free and Open Source (FOSS) for everybody workshop at Heinrich-Heine-Universität Düsseldorf

DEMOS

2024 "Students as Researchers" at the Nacht der Wissenschaft, Shadowplatz, Düsseldorf, Germany

2022 "Role of linguistics in AI for social good" at the Nacht der Wissenschaft, Shadowplatz, Düsseldorf, Germany

LANGUAGES

English *Fluent*

Kannada *Fluent*

Hindi *Advanced*

German *Beginner (A1 level)*