

Šárka Kadavá

Doctoral researcher



Education

since 2023 PhD candidate

University of Göttingen &
Radboud University (Cotutelle)

2018–2022 M.A., Czech philology

Faculty of Arts, Charles
University, Prague

2018–2021 M.A., Electronic culture and Semiotics

Faculty of Social Studies, Charles
University, Prague

2021 Erasmus Mobility Program

Università di Bologna

2020 Erasmus Mobility Program

Lund University

2015–2018 B.A., Czech philology

Faculty of Arts, Charles
University, Prague

Skills

- Programming and data analysis (Python, R)
- Signal processing
- Computer-vision motion tracking (MediaPipe, OpenPose, Pose2sim, LabGym, DeepLabCut)
- Biomechanical modelling (OpenSim)
- Data annotation (ELAN, Praat)

Review experience

Evolang 2026, Cognitive Science, Language, Psychological Review, Journal of Language Evolution, ISGS 2025, Evolang 2024, MMSYM 2024, GESPIN 2023

Current affiliations

since January 2025 Methodological developer

Leibniz Centre General Linguistics, Berlin (Laboratory Phonology)

Project: Voc2Speak: Ein integrativ-interaktiver Ansatz zur Sprachentwicklung (ANR-DFG project)

PIs: Dr. Susanne Fuchs, Dr. Aude Noiray

since October 2022 Doctoral researcher

Leibniz Centre General Linguistics, Berlin (Laboratory Phonology)

Project: FLESH: On the Flexibility and Stability of Gesture-speech Coordination (SPP 2329 –Vicom)

PIs: Dr. Aleksandra Ćwiek, Dr. Susanne Fuchs, Dr. Wim Pouw

April 2023–April 2024 Visiting researcher

Donders Center for Cognition, Nijmegen

Academic experience

May–September 2022 Research assistant

Institute of Psychology, The Czech Academy of Science, Prague

Project: Czech adaptation of MB-CDI – parent report instrument investigating early communication of children in age of 8–30 months (Dovyoško)

PI: Dr. Nikola Paillex

Publications (selected)

Kadavá, Š., Ćwiek, A., and Fuchs, S. (**accepted**) Communicating from head to toe: the physiological processes in multimodal language. In Tseng, Ch., & Bateman, J. (eds.): *The Handbook of Linguistics and Multimodality*. Wiley/Blackwell (ISBN: 9781394321254). [Preprint](#)

Ćwiek, A., Fuchs, S., Pouw, W., Kadavá, Š. (**under review**) Self-reported expressibility predicts communicative success: Open dataset, validation, and simulation. *Behavior Research Methods*.

Faytak, M., Kadavá, Š., Xu, Ch., Özsoy, O., ..., Buchanan, E. M., Roettger, T. B. (**accepted**) Big Team Science for language science: Opportunities and Challenges. *Linguistics*. [Preprint](#)

Kadavá, Š., Ćwiek, A., Stoltmann, K., Fuchs, S. & Pouw, W. (**2023**) Is gesture-speech physics at work in rhythmic pointing? Evidence from Polish counting-out rhymes. *Proceedings of the 20th International Congress of Phonetic Sciences (ICPhS)*, Prague, 7–8 August 2023. [Full paper](#)

Responsibilities

since 3/2025 **EnvisionBOX core team**

member website

since 4/2024 **PhD representative**

ZAS, Berlin

since 2023 **co-organizer of ZASx**

Talks: Phonetics & Phonology

Series website

2023 **Committee Chair**

GESPIN 2023, Nijmegen

2022–2025 **PhD representative**

ViCom (SPP 2329)

Supervisions

Rosenberg, G. (2024–2025)

MA Thesis: Diversity-driven efficiency in novel communication through iterated learning. Princeton University

Nalbantoglu, H. (2024–2025) Student assistant in project FLESH, ZAS

Lambers, J., Snelders, J. (2023–2025) Student assistants in project FLESH, Donders

Grants & Awards

Student Poster Prize 2025, with Door Spruijt at the International Society of Gesture Studies Conference.

ViCom short-term collaboration 2024, lead by Šárka Kadavá and Door Spruijt (€1500).

ViCom short-term collaboration 2024, lead by Šárka Kadavá and Chiara Zulberti (€310).

Coding scripts

Nalbantoglu, H. & Kadavá, Š. (2025) Multi-Scenario Video and Audio Synchronization and Segmentation. Script

Kadavá, Š., Snelder, J., Pouw, W. (2024) Recording from Multiple Webcams Synchronously while LSL Streaming. Script

Kadavá, Š., Pouw, W. (2024) 3D motion tracking using multiple cameras with OpenPose and Pose2Sim. Script

Scientific presentations (selected)

Putting in the Effort: Modulation of Multimodal Effort in Communicative Breakdowns during a Gestural-Vocal Referential Game (oral presentation). The 16th European Workshop on Ecological Psychology (Leeds 2025).

Kinematics of Conventionalization: Exploring the Trajectory from Gesture to Sign (poster). 10th Conference of the International Society of Gesture Studies (Nijmegen 2025).

To interact is to move: movement as a core constituent of social interaction (keynote). Workshop Multimodality in Social Interactions 2.0 (Marseille 2024).

Regulating the body in communicative challenges (oral presentation). IACS 2024.

Is gesture-speech physics at work in rhythmic pointing? (poster). 20th International Congress of Phonetic Sciences 2023.

Workshops & Summer Schools

EnvisionBOX Summer School: Unboxing Multimodality – Analysis Pipeline for Behavioral Dynamics (co-organized with James Trujillo, Wim Pouw, and Babajide Owoyele), June 2025. University of Amsterdam.

How to build your motion tracking pipeline, March 2025. Leibniz-ZAS, Berlin.

Visualizing Multimodal Data. Course: Methods in Multimodal Communication (lecturer: James Trujillo), January 2024. LOT Winter School 2024, Tilburg University.

Multimodality: what is it and why does it matter. Course: Experimentelle Untersuchungen im L2-Lauterwerb (lecturer: Sarah Wesolek), November 2023. Humboldt University, Berlin.