

Harry Woodhouse

BSc (Hons) Linguistics, University of York

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GitHub: github.com/Harry-S-W

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Education

BSc (Hons) Linguistics, University of York 2025–2027
Focus areas: Neurolinguistics, Speech Development, Articulatory Phonetics, Motor-Speech Disorders.

BA (Hons) English Language and Linguistics, University of Kent 2024–2025
First-year average: Distinction.
(Transferred)

Modules

University of York, Year Two 2025 - 2026

Language and the Mind - Department of Language and Linguistic Science	–
Language Acquisition - Department of Language and Linguistic Science	–
Foundations of Meaning - Department of Language and Linguistic Science	–
Neuroscience - Department of Biology	–
Acoustic Phonetics and Phonology - Department of Language and Linguistic Science	–
Linguistics as Data Science - Department of Language and Linguistic Science	–

Research and Development

Correlational Study of PWS Articulatory Movement to Known Speech Disorder Diagnostic Metrics 2025 - 2026

- Assessing how asymmetric articulation of speech in people with stutters and people without stutters vary under varying speech tasks.
- Assessing how asymmetric articulation of speech vary during fluent and non-fluent speech.
- Assessing *how* the mouth is asymmetric during the onset and recovery of stutters.
- Assessing how asymmetric articulation of speech may vary between blocks, repetitions, and prolongations.
- Using FluencyBank Corpora.

Motor-Oral Speech Analysis, and Integrated Computation (MOSAIC) — Main Developer January 2025–Present

- Designing and developing a computational system for measuring and comparing articulatory phonetics with speech in Rust, and Python (Core) and HTML, CSS and Javascript (GUI), and Bash and Powershell (Build scripts).
- Use of Parselmouth-Praat for correlational oromotor research with speech analysis.
- Development of a Universal Dataset to standardize EMA, Video, and DeepLabCut to standardise tracking data
- Builds temporal models (velocity, acceleration, curve coefficients) and 3D head-pose correction.
- Using first, second, and third derivatives, we interpolate data to artificially increase frame rate.

- Propagates uncertainty for every calculation
- MOSAIC Source Code: <https://github.com/mosaic-rs/MOSAIC>

Psycholinguistics Research Intern, UCL 2025 - 2026

- Analysed non-native Russian vowel perception data using R (tidyverse, lme4).
- Developed and cleaned participant datasets.
- Used Multi-Dimensional-Scaling to interpret free-classification results.

Leadership & Academic Service

National Chair, Undergraduate Linguistics Association of Britain (ULAB) 2025–2026

- Lead a national organisation consisting of 40+ universities.
- Coordinate institutional representatives, manage events, and oversee JoULAB editorial processes.

Associate Editor, Journal of the Undergraduate Linguistics Association of Britain (JoULAB) 2025-2026

- Oversee postgraduate peer-review process .
- Maintain a high publication standard of original, peer-reviewed undergraduate research.

Hosting Annual 2026 ULAB Conference @ University of York 2026

- Managed call-for-papers and client-side logistics
- Liaison speakers for workshops to provide undergraduates with unique learning opportunities.
- Collaborated with ULAB National-Committee Archivists during work on the 2025 conference proceedings and future work on the 2026 proceedings.

President, English Language and Linguistics Society (University of Kent) 2025

- During my end of my final year at the University of Kent I held the title of President of the English Language and Linguistics Society (ELL).
- Collaborated with the department of Culture and Language to increase first-year student engagement.
- This position was held until my transition to the University of York for the 2025-2026 academic year.

Technical Skills

- **Programming: Python:** pandas, numpy, matplotlib, large-scale data processing. **R:** tidyverse, lme4, ggplot2. **Rust:** CLI tools, development of large-scale open-source linguistics tool (MOSAIC), Cargo.
- **Phonetic Tools:** Praat/Parselmouth.
- **Other:** Git/GitHub, LaTeX, large-scale dataset handling (~700 million point CSV/Parquet).

Conference Presentations

- (Future) Woodhouse, H., (April 2026) Motor-Oral, Speech Analysis, and Integrated Computation (MOSAIC): Methods on Articulatory Phonetics. Paper presented at the Undergraduate Linguistics Association of Britain (ULAB) (XVI) Conference,
- Woodhouse, H., (April 2025) Exploring the Relationship Between Mouth Asymmetry and Motor Speech Disorders. Paper presented at the Undergraduate Linguistics Association of Britain (ULAB) (XV) Conference, London, UK.

- Woodhouse, H., (April 2025) Exploring the Relationship Between Mouth Asymmetry and Motor Speech Disorders. Paper presented at the English Language and Linguistics Conference, Canterbury, Kent, UK.

References

- **Dr. Vita V. Kogan** - Research fellow @ Universidade De Lisboa v.kogan@ucl.ac.uk

Availability During Term Time

- **Wednesdays** - Before 12:00 and After 13:00
- **Thursdays** - Before 13:00 and After 14:00
- **Fridays** - All day