

# Harry Woodhouse

*BSc (Hons) Linguistics, University of York*

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GitHub: [github.com/Harry-S-W](https://github.com/Harry-S-W)

Website: [harrywoodhouse.com](https://harrywoodhouse.com)

## Education

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**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)

## Research and Development

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### Correlational Study of PWS Oromotor Activity 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, Python, and (expected) R.
- Use of Parselmouth for correlational oromotor research with speech analysis.
- Development of a Universal Dataset to standardize EMA, Video, and other forms of facial tracking
- Built temporal models (velocity, acceleration, curve coefficients) and 3D head-pose correction.
- Drivers enable processing of OpenFace, Electromagnetic Articulography, with development to soon start on a CNN/Transformer based neural network for rt-MRI articulation tracking.
- 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.
- Contributed to preparing a peer-reviewed paper and expected second-author publication upon publishing.

**(Future) Visiting Student Researcher (Funded Research Stay), LabFon** March 2026  
*Hosted by Dr. Vita V. Kogan (Universidade De Lisboa)*

- Received funding to undertake an international research visit extending my ongoing collaborative work on non-native vowel perception and phonetic categorisation.
- Provided computational and statistical input, incorporating R-based statistical modelling, data cleaning, and covariate-analysis.
- Collaborated with LabFon to analyse and develop statistically driven result section on non-native vowel perception and categorisation.

## Leadership & Academic Service

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**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

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- **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).
- **Phonetic Tools:** Praat/Parselmouth.
- **Other:** Git/GitHub, LaTeX, large-scale dataset handling (~700 million point CSV/Parquet).

## Conference Presentations

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- Woodhouse, H., (April 2025) Exploring the Relationship Between Mouth Asymmetry and Motor Speech Disorders. Paper presented at the Undergraduate Linguistics Association of Britain (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

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- **Dr. Vita V. Kogan** - Research fellow @ Universidade De Lisboa    [v.kogan@ucl.ac.uk](mailto:v.kogan@ucl.ac.uk)

## Availability

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