Dr Greg Woodin

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Google Scholar https://scholar.google.co.uk/citations?user=7xUR-DQAAAAJ&hl=en

Researcher specialising in data science, quantitative methods, and multimodal communication, with an interdisciplinary background spanning psychology, cognitive science, and linguistics. Expertise in analysing large-scale behavioural and observational datasets, developing computational methods, and conducting statistical modelling to investigate how humans communicate information across modalities, including language, gesture, and space.

Academic Appointments

- **Research Fellow in Data Sciences** (Jan 2025–Present), Language and Cognition Lab, Experimental Psychology, University College London, Prof Gabriella Vigliocco
- **Post-doctoral Research Fellow** (Jul 2024–Dec 2024), Translation and Transcultural Studies, University of Warwick, Dr David Orrego-Carmona
- **Post-doctoral Research Fellow** (Aug 2023–Aug 2024), Linguistics and Communication, University of Birmingham, Prof Bodo Winter
- **Post-doctoral Research Assistant** (Nov 2022–June 2023), Linguistics and Communication, University of Birmingham, Prof Bodo Winter

Education

- **PhD English Language and Applied Linguistics** (2019–2023), University of Birmingham. *Interfaces between Language and Cognition: Metaphor, Iconicity, and Multimodal Numerical Communication.* https://etheses.bham.ac.uk/id/eprint/13504/. Supervised by Prof Bodo Winter, Prof Jeannette Littlemore, and Dr Marcus Perlman.
- **MA Social Research** (2018–2019), University of Birmingham.
- **MA by Research English Language and Applied Linguistics** (2017–2018), University of Birmingham. *Degrees of Metaphoricity: A Quantitative Gesture Analysis.* https://etheses.bham.ac.uk/id/eprint/9966/. Supervised by Prof Bodo Winter and Prof Jeannette Littlemore.
- **BA (hons.) English Language** (2014–2017), University of Birmingham.

Publications

- Duffy, S., Littlemore, J., Turner, S., **Woodin**, G., Winter, B. (accepted). *Metaphor and the Development of Abstract Thought: How Children Understand Number, Time, Emotion, and Music*. Cambridge University Press.
- Duffy, S., Littlemore, J., Turner, S., **Woodin**, G., Winter, B. (minor revisions). Spatial metaphorical reasoning in childhood and adulthood: Representations and explanations of number and time. *Metaphor and Symbol.*
- **Woodin,** G., Lorson, A., & Winter, B. (2026). Approximate round number use depends on magnitude. *Language and Cognition.* https://doi.org/10.1017/langcog.2026.10090
- **Woodin**, G. (2026). Iconicity in language and communication. In: Nesi, H., Milin, P. (Eds.), *International Encyclopedia of Language and Linguistics,* 3e*(*3): 686–690. UK: Elsevier. https://dx.doi.org/10.1016/B978-0-323-95504-1.00722-5
- Winter, B., **Woodin**, G. & Perlman, M. (2026). Defining iconicity for the cognitive sciences. In Fischer, O., Akita, K., & Perniss, P. (Eds.) *Oxford Handbook of Iconicity in Language*. Oxford, UK: Oxford University Press, https://doi.org/10.1093/oxfordhb/9780192849489.013.0012
- **Woodin**, G. & Winter, B. (2024). Numbers in context: Cardinals, ordinals, and nominals in American English. *Cognitive Science,* 48 (6): 1-27, http://dx.doi.org/10.1111/cogs.13471
- **Woodin,** G., Winter, B., Littlemore, J., Perlman, M. & Grieve, J. (2024). Large-scale patterns of number use in spoken and written English. *Corpus Linguistics and Linguistic Theory,* 20(1): 123–152, https://doi.org/10.1515/cllt-2022-0082
- Banks, B., Borghi, A., Fargier, R., Fini, C., Jonauskaite, D., Mazzuca, C., Montalti, M., Villani, C. & **Woodin**, G. (2023). Consensus paper: Current perspectives on abstract concepts and future research directions. *Journal of Cognition*, 6(1): 62, 1–26, https://doi.org/10.5334/joc.238

- **Woodin,** G., Winter, B. & Padilla, L. (2022). Conceptual metaphor and graphical convention influence the interpretation of line graphs. *IEEE Transactions on Visualization and Computer Graphics,* 28(2): 1209 – 1221, http://doi.org/10.1109/TVCG.2021.3088343.
- Perlman, M. & **Woodin,** G. (2021). A complete real-world theory of language should explain how iconicity remains a stable property of linguistic systems. *Journal of Cognition,* 4(1): 43, http://doi.org/10.5334/joc.166
- **Woodin,** G., Winter, B., Perlman, M., Littlemore, J. & Matlock, T. (2020). 'Tiny numbers' are actually tiny: Evidence from gestures in the TV News Archive. *PLOS One*, https://doi.org/10.1371/journal.pone.0242142
- **Woodin**, G. & Winter, B. (2018). Placing abstract concepts in space: quantity, time and emotional valence. *Frontiers in Psychology*, 9, 2169: 1-14, https://doi.org/10.3389/fpsyg.2018.02169

Teaching, Supervision & Consultancy

- **Research Supervision, UCL, 2025–Present.** Supervising student research assistants annotating the ECOLANG corpus.
- **Statistical Consultant, University of Birmingham, 2023–2024.** Providing statistical analysis for the SignMorph project with Prof Adam Schembri.
- **Academic Consultancy, 2022.** Supervising MA dissertation.
- **PG Tips Workshop, University of Birmingham, 2022.** *A crash course in statistical modelling.* https://osf.io/xgjqu
- **Teaching Associate, University of Birmingham, 2021–2022.** *UG Fundamentals of Language: Sounds and Words*. Leading seminars and marking assessments.
- **Realising Opportunities Academic Skills Module (ASM) Reflective Tutor, 2021–2022.** Providing feedback on reflective pieces written by students enrolled on the ASM. https://www.birmingham.ac.uk/teachers/year-12/realising-opportunities.aspx
- **Teaching Associate, University of Birmingham, 2021.** *UG Applied Linguistics.* Leading seminars and marking assessments.
- **HEFi Horizon Award, 2021.** Completed course on Higher Education teaching. https://www.birmingham.ac.uk/university/hefi/index.aspx
- **Statistical Training Workshops, PG Tips, University of Birmingham (2020–2022):** Delivered talks and workshops on statistical modelling, linear and logistic regression in R, and data wrangling and visualisation, e.g., https://osf.io/sa26g.
- **Assistant for Birmingham Statistics for Linguists Summer School, 2018**. With Prof Bodo Winter, Dr Timo Röettger, and Dr Márton Sóskuthy.
- **Teaching Associate, University of Birmingham, 2017–2020**. Conducting eye-tracking experiments and data-cleaning with Dr Gareth Carroll.

Awards & Achievements

- Awarded **HPC-Europa3 Transnational Access** funding (travel, accommodation, and subsistence) to undertake 10-week high-performance computing visit to Dr Peter Uhrig at FAU Erlangen-Nürnberg (€3,080) (2021). http://www.hpc-europa.eu/
- Awarded **Constance Naden Medal** for submitting the highest quality thesis for the MPhil/MRes/MA by Research degree across the College of Arts and Law (2018)
- Awarded **ESRC Midlands Graduate School DTP Studentship**. 1+3 programme. Annual payment consists of course fees (£4,260) and maintenance award (£14,777), and £2,250 Research Training Support Grant (RTSG) (2018), https://warwick.ac.uk/fac/cross_fac/mgsdtp/studentships/
- Offered **AHRC Midlands3Cities DTP Studentship** (annual course fees £4,260 + annual maintenance award £14,777, and £600 Research Training Support Grant) (2018). https://www.midlands4cities.ac.uk/ (now Midlands4Cities)
- Highly Commended in Language & Linguistics category of **The Undergraduate Awards Programme 2017** (2017) (now The Global Undergraduate Awards) https://gua.soutron.net/Portal/Default/en-GB/RecordView/Index/1421
- Awarded **College of Arts & Law Masters Scholarship** to undertake MA by Research in English Language and Applied Linguistics at the University of Birmingham – worth £4,195 (2017). https://www.birmingham.ac.uk/funding/postgraduate/college-of-arts-and-law-masters-scholarships.aspx

- Awarded **Gwyneth Fox Award** for having highest mark overall (80.291) enrolled on the English Language or the English Language and Linguistics single honours programmes (2017).
- Won **Vera Adamson Prize** for being the first-year undergraduate deemed to have produced "the most outstanding work in the field of Modern English Language" (2015).
- Won the **Sonnenschein Prize**, given to "first year students whose performance in their examinations is deemed to be of sufficient merit" (2015).
- Longlisted for the **Notting Hill Editions Essay Prize 2015** amongst names such as Hilary Mantel (2015). https://www.nottinghilleditions.com/prizes/
- Awarded **Access to Birmingham (A2B) Scholarship** for undergraduate study – worth £4,500 (2014). https://www.birmingham.ac.uk/alumni/giving/support-students/access-to-birmingham-scholarships.aspx
- Received **unconditional offer** to undertake undergraduate degree at the University of Birmingham (2014).

Keynotes & Invited Presentations

- **Culture, Language, and Cognition Group (2026)**. University of Oxford. *Shared melodies: Pitch processing in speech and song.*
- **Psycholinguistics Coffee (2025)**. University of Edinburgh. *How round is 'a million'? Numerical cognition is more approximate at higher magnitudes.*
- **CLaSSI Lab and Language and Cognition Lab (2025)**. Carleton University and UCL. *Interfaces between language and cognition: Metaphor, iconicity, and multimodal numerical communication.*
- **Birmingham English Language Postgraduate Conference (2023)**. Keynote. University of Birmingham. *How people talk and think about numbers: Insights from corpus and cognitive linguistics.*
- **Cognitive Research Group (2022)**. Northumbria University. *The spatial representation of abstract concepts.*
- **The Linguistics Lab (2022)**. FAU Erlangen-Nürnberg. *Rounding as communicative practice: A large-scale corpus analysis of number frequencies.*
- **Potsdam Embodied Cognition Group (2021)**. University of Potsdam. *Conceptual metaphor and graphical convention influence the interpretation of line graphs.*
- **Psycholinguistics Coffee (2021)**. University of Edinburgh. *'Tiny numbers' are actually tiny: Evidence from gestures in the TV News Archive.*

Selected Peer-reviewed Presentations

- **Embodied and Situated Language Processing (2026).** Lancaster University. *Multimodal coordination in early word learning interactions.*
- **International Workshop on Naturalistic Experimentation of Child Development (2026).** Poster. Birkbeck, University of London. *Learning words through interaction: Verbal coordination in child-caregiver dyads.*
- **Embodied and Situated Language Processing (2025).** Aix-Marseille University. *Learning words through interaction: Verbal coordination in child-caregiver dyads.*
- **Cognitive Science Society (2024)** - Poster, Rotterdam. *Numbers in context: Cardinals, ordinals, and nominals.*
- **International Cognitive Linguistics Conference (2023).** Heinrich Heine University Düsseldorf. *How numerical communication reflects cognition: A corpus-based analysis.*
- **British Association for Applied Linguistics (2022).** Queen's University Belfast. *How people gesture when they talk about actions: Evidence from English TV news media.*
- **International Society for Gesture Studies (2022).** Loyola University Chicago. *Data science methods for the study of co-speech gesture: Open datasets and baseline machine learning.*
- **IEEE Visualization & Visual Analytics (2021).** *Conceptual metaphor and graphical convention influence the interpretation of line graphs.*
- **Protolang 7 (2021).** University of Düsseldorf. *The iconic impetus of language: From sensorimotor simulation to the lexicon.*
- **International Conference on Figurative Thought and Language (2020).** Sofia University. '*Tiny numbers*' *are actually tiny: Gestural evidence from the TV News Archive.*
- **International Symposium on Iconicity in Language and Literature (2019).** Lund University. *Degrees of metaphoricity: A large-scale, quantitative analysis of iconic gestures in the TV News Archive.*

- **Researching and Applying Metaphor (2018)**. Hong Kong Polytechnic University. *The continuity of metaphor? Horizontal and vertical metaphors in the spatialization of time, quantity and valence.*

Academic Experience & Service

- **Research Communications Assistant, University of Birmingham (Sep–Nov 2024).** Designing research posters for the Department of Linguistics and Communication.
- **Open Data and Open Materials Badge (Jun 2024).** Awarded to Woodin & Winter (2024) in *Cognitive Science*, https://onlinelibrary.wiley.com/doi/10.1111/cogs.13471
- **CogSci Unpacked Blog (Jun 2024).** Public engagement and research dissemination for Woodin & Winter (2024) in *Cognitive Science*: https://cognitivesciencesociety.org/how-we-use-numbers/
- **Generalisability Tests Forecaster (Jul 2022).** Delios, A., Clemente, E., Wu, T., Tan, H., Wang, Y., Gordon, M., Viganola, D., Chen, Z., Dreber, A., Johannesson, M., Pfeiffer, T., Generalizability Tests Forecasting Collaboration, & Uhlmann, E. (2022*). Proceedings of the National Academy of Sciences*, 119 (30), 1–9. https://doi.org/10.1073/pnas.2120377119
- **Replicability Stamp (Feb 2022).** Awarded to Woodin et al. (2022) in *IEEE Transactions on Visualization and Computer Graphics*, https://www.replicabilitystamp.org/#https-github-com-gregwoodin-dataviz
- **Research Assistant, University of Birmingham (Jun–Jul 2021).** Conducting literature review and interfacing with Twitter API for online polarisation project (Prof Jack Grieve and Dr Matteo Fuoli).
- **Research Assistant, University of Birmingham (Feb–Mar 2020).** Conducting experiments (Dr Dagmar Divjak and Dr Peter Milin).
- **Student Member, Vice-Chancellor's Integrated Review, University of Birmingham (Nov 2019–Mar 2020).** Contributing to the review of the School of History and Cultures.
- **Transcript Checker, University of Birmingham (Dec 2018).** Anonymising transcripts for the Death Before Birth research project (Prof Jeannette Littlemore).
- **Peer Review, Jul 2018–Present:** Reviewed 26 manuscripts for journals including *Cognition*, *Psychological Research*, *Language and Cognition*, *Journal of Experimental Child Psychology*, *Cognitive Science*, and *IEEE Transactions on Visualization and Computer Graphics*.
- **Research Assistant, University of Birmingham (Jun 2018–Jun 2020).** Running reaction-time experiments and conducting statistical analyses (Prof Jeannette Littlemore, Prof John Barnden, and Dr Eirini Mavritsaki).
- **Open and Reproducible Research (Apr 2018–Present):** Published analysis code and research materials for projects spanning numerical cognition, multimodal communication, and data visualisation.
- **Research Centre Assistant, University of Birmingham (Oct 2017–Jun 2018).** Supporting the Corpus Linguistics Summer School and promoting Centre for Corpus Research events.
- **Research Assistant, University of Birmingham (Jun–Oct 2017).** Manually analysing gestures in the TV News Archive (Prof Bodo Winter and Dr Marcus Perlman).
- **Research Assistant, University of Birmingham (Jun–Oct 2017).** Quantitative data coding and spoken-data transcription (Prof Jeannette Littlemore).
- **Research Assistant (Scholarship), University of Birmingham (May–Aug 2016).** Transcribing spoken data in ELAN for a pilot study (Prof Jeannette Littlemore)
- **Research Assistant, University of Birmingham (May–Jun 2016).** Transcribing spoken data for a multimodal metaphor in advertising study (Dr Paula Pérez-Sobrino).