James Brand

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https://jamesbrandscience.github.io

Research Focus

How do cognitive biases shape our language? My research focuses on the different ways that human language has been shaped by the brain. My approach to raising and answering research questions on this topic is highly multidisciplinary, with the aim being to reach a synthesis between experimental psychology, corpus linguistics and computational cognition. In doing so, I hope to progress our empirical and theoretical understanding of questions concerning how languages are learnt, processed and subsequently evolve.

Academic Appointments

Jan, 2021 - *Present*	**Research Scientist (PRIMUS and GAČR)**
	Charles University
	Projects: SocioLex and CzeLex: Large scale quantification of the Czech lexicon
Oct, 2018 - Dec, 2020	**Post-doctoral Research Fellow (Marsden Fund)**
	University of Canterbury
	PIs: Dr. Kevin Watson, Prof. Jen Hay & Dr. Lynn Clark
	Project: Towards an improved theory of language change: understanding the covariation of linguistic variables within and across speakers
June, 2017 - Sept 2018	**Post-doctoral Research Associate (Leverhulme Trust)**
	Lancaster University
	PIs: Dr. Dermot Lynott & Prof. Louise Connell
	Project: Emergent categorical structure in the human conceptual system
Feb, 2017 - June, 2017	**Research Assistant**
	Lancaster University
	PI: Dr. Michelle To
	Project: Influence of anxiety on body perception for underweight and overweight individuals
Dec, 2016 - June, 2017	**Research Assistant (ESRC)**
	Lancaster University
	PI: Prof. Padraic Monaghan
	Project: Investigating the role of multiple cues in word learning

Education

Enrolled, 2020	**Certificate of Proficiency in Te Reo Māori (TREO110)** Univeristy of Canterbury
June, 2017	**Ph.D. Psychology** Lancaster University Title: *The Role of Cognitive Factors on the Development and Evolution of the Vocabulary* Supervisors: Prof. Padraic Monaghan & Dr. Peter Walker
Nov, 2012	**M.Sc. Evolution of Language and Cognition** University of Edinburgh
June, 2010	**B.A. English Language** Sheffield Hallam University
March, 2010	**CertTESOL (Certificate in Teaching English to Speakers of Other Languages)** Trinity College London

Publications

Wilson Black, J., **Brand, J.,** Hay, J., & Clark, L. (*2023*). Using principal component analysis to explore co-variation of vowels. *Language and Linguistics Compass*, 17(1), e12479.
Open access: https://doi.org/10.1111/lnc3.12479
Supplementary materials: https://github.com/nzilbb/PCA_method_supplementary

Preininger, M., **Brand, J.,** & Kříž, A. (*2022*). Quantifying the Socio-semantic Representations of Words. In *Proceedings of the Annual Meeting of the Cognitive Science Society*, (Vol. 44, No. 44).
Open access: https://tinyurl.com/preiningercogsci22

Brand, J., Hay, J., Clark, L., Watson, K., & Sóskuthy, M. (*2021*). At the margins of vowel-space change: Leaders and laggers in the evolution of vocalic subsystems. *Journal of Phonetics*, 88, 101096.
Open access: https://doi.org/10.1016/j.wocn.2021.101096
Supplementary materials: https://tinyurl.com/brandetal2020suppl

Brand, J., Hay, J., Clark, L., Watson, K., & Sóskuthy, M. (2019). Systematic covariation of monophthongs across speakers of New Zealand English. In Calhoun, S., Escudero, P., Tabain, M., & Warren, P. (eds.) *Proceedings of the 19th International Congress of Phonetic Sciences, Melbourne, Australia 2019* (pp. 1878-1881).
Open access: https://tinyurl.com/brandetal2019

Sóskuthy, M., Hay, J., & **Brand, J.** (2019). Horizontal diphthong shift in New Zealand English. In Calhoun, S., Escudero, P., Tabain, M., & Warren, P. (eds.) *Proceedings of the 19th International Congress of Phonetic Sciences, Melbourne, Australia 2019* (pp. 597-601).
Open access: https://tinyurl.com/soskuthyetal2019 award winning
Repository: https://osf.io/74mza

Lynott, D., Connell, L., Brysbaert, M., **Brand, J.,** & Carney, J. (2019). The Lancaster Sensorimotor Norms: multidimensional measures of perceptual and action strength for 40,000 English words. *Behavior Research Methods*, 1-21.
Open access: https://tinyurl.com/lynottetal2019
Repository: https://osf.io/7emr6/

Brand, J., Monaghan, P., & Walker, P. (2018). Changing signs: Testing how sound-symbolism supports early word learning. *Proceedings of the 40th Annual Conference of the Cognitive Science Society* (pp. 1396-1401).

Open access: https://tinyurl.com/brandetal2018

Brand, J., Monaghan, P., & Walker, P. (2017). The changing role of form-to-meaning mappings for the growing vocabulary. *Cognitive Science*. doi:10.1111/cogs.12565.
Open access: https://tinyurl.com/brandetal2017
Repository: https://tinyurl.com/brandetal2017repo

Monaghan, P., **Brand, J.,** Frost, R.L.A., & Taylor, G. (2017). Multiple, noisy cues for word learning results in robust, generalisable learning. *Proceedings of the 39th Annual Conference of the Cognitive Science Society* (pp. 817-822).
Open access: https://tinyurl.com/monghanetal2017

Talks & Presentations

Brand, J., Hay, J., Clark, L., Watson, K., & Sóskuthy, M. (2020). At the margins of vowel-space change: Leaders and laggers in the evolution of vocalic subsystems. *Talk to be presented at the 17th biennial conference of the Association for Laboratory Phonology*, Vancouver, CA. 5% acceptance rate

CCC [Gnevsheva, K., Grama, J., Diskin, C., Hay, J., Foulkes, P., Drager, K., Travis, C., Gonzalez, S., Loakes, D., Sheard, E., Docherty, G., & **Brand, J.**]. (2020). Sound change in word classes and individual words in Australian and New Zealand English. *Paper to be presented at the Colloquium of the British Association of Academic Phoneticians (BAAP)*, York, UK.

CCC [Grama, J., Gnevsheva, K., Hay, J., **Brand, J.**, Gonzalez, S., Loakes, D., Docherty, G., Sheard, E., Foulkes, P., Diskin, C., Drager, K. & Travis, C.] (2019) Just a word: Sound change at the level of the word across dialects. *Talk presented at the Australian Linguistic Society conference*, Sydney, AU.

CCC [Diskin, C., Hay, J., Drager, K., Foulkes, P., Gnevsheva, K., Grama, J. **Brand, J.**, Travis, C., Loakes, D., Docherty, G., Walker, J. Sheard, E. & Gonzalez, S.] (2019) The emergence of the discourse-pragmatic marker 'just': linking changes in usage to changes in pronunciation. *Talk presented at the Linguistic Society of New Zealand conference*, Christchurch NZ.

CCC [Gnevsheva, K., Grama, J., Hay, J., Drager, K., Foulkes, P., **Brand, J.**, Gonzalez, S., Travis, C., Sheard, E., Loakes, D., Docherty, G., & Diskin, C.] (2019). Just a word: Lexeme-specific sound changes. *Talk presented at the Linguistic Society of New Zealand conference*, Christchurch NZ.

Sóskuthy, M., Hay, J., & **Brand, J.** (2019). Horizontal diphthong shift in New Zealand English. *Talk presented at the 40th International Congress of the Phonetic Sciences*, Melbourne AU. https://osf.io/nhsek/ award winning

Brand, J., Hay, J., Clark, L., Watson, K., & Sóskuthy, M. (2019). Systematic covariation of monophthongs across speakers of New Zealand English. *Talk presented at the 40th International Congress of the Phonetic Sciences*, Melbourne AU. https://tinyurl.com/brandetalICPhS

Brand, J. (2018). Predicting the age of acquisition of concepts from sensorimotor experience. *Talk presented at the 4th Language and Communicative Development Conference (LuCiD)*, Manchester UK.
https://tinyurl.com/brandLuCiD award winning

Brand, J., & Monaghan, P. (2018). Experimental diachronics: Predictors of lexical stability and change in language evolution. *Talk presented at the 12th Summer School of Linguistics*, Kroměříž CZ https://tinyurl.com/brandSSoL

Brand, J., Monaghan, P., & Walker, P. (2018). Changing signs: Testing how sound-symbolism supports early word learning. *Poster presented at the 40th Annual Conference of the Cognitive Science Society*, Madison US.

Monaghan, P., **Brand, J.,** Frost, R.L.A., & Taylor, G. (2017). Multiple, noisy cues for word learning results in robust, generalisable learning. *Talk presented at the 39th Annual Conference of the Cognitive Science Society*, London UK.

Ph.D. Thesis

Brand, J., (2017). The Role of Cognitive Factors on the Development and Evolution of the Vocabulary. *Doctoral dissertation, Lancaster University*. https://tinyurl.com/brandPhD

Tutorials and Online Resources

Interactive web app for exploring Lancaster Sensorimotor Norms
https://tinyurl.com/SMnorms

Vowel plot animations
https://tinyurl.com/vowelanimation

Introduction to open science practices
https://tinyurl.com/opensciprac

GitHub for beginners
https://tinyurl.com/githubbegin

Data exploration and visualisation in R
https://tinyurl.com/datavisR

Artificial language learning and PyschoPy
https://tinyurl.com/artificallang

Student Supervision

2021 - *present*	**Mikuláš Preininger** *(Supervisor)* Thesis: *TBC* Ph.D. candidate (Linguistics, Charles University)
2020 - 2022	**Jacq Jones** *(Associate supervisor)* Thesis: *Mixed Signals: Language Use and Nonbinary Gender Identities* Ph.D. candidate (Linguistics, University of Canterbury)

Reviewing Service

Journals	**Conference proceedings**
Journal of Memory and Language	Cognitive Science Society
Behaviour Research Methods	Embodied and Situated Language Processing
PLoS ONE	Laboratory Phonology
Cognitive Development	Evolution of Language
Linguistics Vanguard	Linguistics Prague
Psychological Research	
Cognitive Science	

Grants, Honours and Awards

2023 - 2026	**GAČR (Grant Agency of the Czech Republic) Standard Grant** Project *Cze-Lex: Quantifying the Czech Lexicon* 5,434,000 CZK (approx €228,330)
2020 - 2023	**PRIMUS, Charles University** Project: *SocioLex: Quantification of socio-semantic representations in the Czech vocabulary* 5,097,720 CZK (approx €214,200)
2019	**International Congress of the Phonetic Sciences** Best Early Career Researcher paper
2018	**Language and Communicative Development Conference (LuCiD)** Best Early Career Researcher paper
2016	**Experimental Psychology Society** Grindley Grant for International Conference Attendance: £500
2015	**Experimental Psychology Society** Grindley Grant for UK Conference Attendance: £500
2013 - 2016	**Lancaster University** Departmental Studentship: £14,000 annual stipend with fee waiver

Teaching

2020	**Ling310: Linguistic Research and New Zealand English** Lecturer and Tutor (Linguistics, University of Canterbury)
2018	**12ᵗʰ Summer School of Linguistics** Invited Lecturer (Kroměříž CZ)
2016 - 2017	**Personal Statistics Tutor** Undergraduate Psychology Statistics
2015; 2016	**M.Sc. Analysing and Interpreting Psychological Data** Teaching Assistant (Psychology, Lancaster University)
2015; 2016	**2ⁿᵈ Year Undergraduate Statistics** Teaching Assistant (Psychology, Lancaster University)
2015	**2ⁿᵈ Year Understanding Neuropsychology** Guest Lecturer (Psychology, Lancaster University)
2015	**2ⁿᵈ Year Undergraduate Statistics Surgery** Tutor (Psychology, Lancaster University)
2014; 2016	**2ⁿᵈ Year Undergraduate Cognitive Psychology** Seminar Tutor (Psychology, Lancaster University)
2014	**1ˢᵗ Year Undergraduate Statistics Surgery** Tutor (Psychology, Lancaster University)
2013; 2014	**1ˢᵗ Year Undergraduate Psychological Approaches** Teaching Assistant (Psychology, Lancaster University)

Organised Workshops

2020	**Word-specific phenomena in the realization of vowel categories: Methodological and theoretical perspectives** https://tinyurl.com/labphon2020CCC LabPhon 17 Satellite Workshop, Vancouver CA
2019	**Open Science Practices for Linguists** https://tinyurl.com/NZLSworkshop New Zealand Linguistics Society, University of Canterbury NZ
2019	**Data Visualisation with R** https://tinyurl.com/data-vis Language Data Analysis Summer School, University of Canterbury NZ
2018	**Artificial Language Learning and PsychoPy** https://tinyurl.com/artificallang Summer School of Linguistics, Kroměříž CZ
2017	**Using Amazon's Mechanical Turk for Data Collection** https://tinyurl.com/AMTurk New Tricks, Lancaster University UK

Professional Activities

2019 - *present*	**NZILBB seminar series** Organiser
2019	**New Zealand Linguistics Society conference (NZLS)** Programme Committee Member
2018	**Embodied and Situated Language Processing conference (ESLP)** Programme Committee Member
2018	**em.path (AHRC and University of the West of England)** Round Table Member
2017	**23rd Architectures and Mechanisms of Language Processing conference (AMLaP)** Conference Committee Member
2016	**5th Implicit Learning Seminar** Conference Committee Member
2014 - 2016	**ESRC International Centre for Language and Communicative Development** Knowledge Exchange and Training Committee
2014 - 2015	**Internal Seminar Series Organiser** Department of Psychology, Lancaster University

Science Communication and Outreach

May, 2015; 2016	**Presenter at LuCiD and Lancaster BabyLab Campus in the City** Lancaster, UK
Nov, 2015	**Presenter at 'Kids say the funniest things' at the ESRC Festival of Social Sciences** Manchester Museum, UK
July, 2015	**Supervisor for South Lakes Federation Poster competition** Lancaster University
June, 2013; 2014	**Presenter at Lancaster University UCAS (Universities and Colleges Admissions Service) open day** Lancaster University

Computing Proficiency

Highly proficient in **R**	Highly proficient in programming in **E-Prime**
Highly proficient in **SPSS**	Highly Proficient in programming in **PsychoPy**
Highly proficient in **Shiny**	Highly Proficient in programming in **OpenSesame**
Highly proficient in **Audacity**	Highly proficient in using **Qualtrics**
Highly proficient in **LaTeX**	Highly proficient in **Microsoft Office applications**
Highly proficient in **jsPsych**	Familiar with **Praat**
Familiar with **Python**	Familiar with **psiTurk**

Affiliations

New Zealand Institute for Language, Brain and Behaviour (NZILBB)

Canberra Corpus Collective

PrOSPr (Promoting Open Science Practices)

Embodied Cognition Lab

ESRC International Centre for Language and Communicative Development (LuCiD)

Language and Communication Lab

Cognitive Science Society

References

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