Pablo Bernabeu

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RECENT WORK

June **2025** – *May 2027*	**Researcher** in <u>LiFT Project</u> Department of Education, University of Oxford
Additional service	Assistant, Inaugural convening of AI in Education at Oxford University (AIEOU); AI Ambassador, AI Competency Centre; Member, Research Computing Advisory Board; Member, Research Assistant hiring committee
Nov **2022** – Feb **2025**	**Postdoctoral Fellow** in <u>LESS Project</u> Center for Language, Brain and Learning, UiT The Arctic University of Norway
Additional service	Co-organised multiple events. Peer-review: *Cognition*, *Cognitive Science*, EuroSLA
Nov – Dec **2022**	**Statistical Consultant** (25%) for <u>CLICK Project</u> AcqVA Aurora Center, UiT The Arctic University of Norway

EDUCATION

2018 – 2022	**PhD Psychology** Lancaster University
Thesis	The linguistic and sensorimotor bases of semantic processing: Variation across individuals, words and tasks
Additional service	Peer-review: Cognitive Science, Psychological Science Accelerator. Development of website for open science group.
2013 – 2017	**Research Master Language and Communication** Tilburg University and Radboud University
Thesis project	Electroencephalography study conducted at Max Planck Inst. for Psycholinguistics
Average grade	7.54 out of 10 (Distinction)
Service	Student member, Master's curriculum and accreditation committee
Extracurricular courses	Advanced R programming (Coursera / Johns Hopkins U.), Improving your statistical inferences (Coursera / Technical University Eindhoven), Linear mixed-effects models in R (Max Planck Institute for Psycholinguistics), Big data in society (Vrije Universiteit Amsterdam), Language sciences, Cognitive neuroscience, Transcranial brain stimulation (Radboud University)
2007 – 2013	**BA English** Autonomous University of Madrid
Exchanges	University of Jyväskylä, Finland (1 year); University of Barcelona, Spain (1 year); internship teaching Spanish at Centro Hispania, in Kaunas, Lithuania (6 months)

TEACHING +

Graduate teaching assistantship during PhD (180 hours per year)	Undergraduate courses: Statistics (lab), Developmental psychology (seminars and essay marking), Cognitive psychology (seminars and essay marking), Neuroscience (seminars), Social psychology (seminars). Postgraduate course: Statistics (labs)
Supervision	Since my PhD, I have advised students, research assistants and colleagues on conducting behavioural and EEG experiments, as well as on data management, preprocessing and statistical analysis. Furthermore, during my first postdoc, I co-supervised a master's thesis.
Certificates	Carpentries Instructor in research software development (The Carpentries)

PUBLICATIONS

Bernabeu, P. (2025). *Secure and scalable speech transcription for local and HPC* (Version 1.0.0) [Computer software]. Zenodo. https://doi.org/10.5281/zenodo.17624830

Chen, S.-C., Buchanan, E. M., Kekecs, Z., Miller, J. K., Szabelska, A., Aczel, B., **Bernabeu, P.**, Forscher, P. S., Szuts, A., Vally, D. Z., Al-Hoorie, A. H., Helmy, M., da Silva, C. S. A., da Silva, L. O., de Moraes, Y. L., Hsu, R. M. C. S., Mafra, A. L., Valentova, J. V., Varella, M. A. C., … Chartier, C. R. (2025). Investigating object orientation effects across 18 languages. *Current Psychology*. https://doi.org/10.1007/s12144-025-08304-x

Phills, C., Miller, J. K., Buchanan, E. M., Williams, A., Meyers, C., Brown, E. R., ... & Kekecs, Z. (2025). Multi-region investigation of 'man' as default in attitudes. *PLoS One, 20*(6), e0323938. https://doi.org/10.1371/journal.pone.0323938

González Alonso, J., **Bernabeu, P.**, Silva, G., DeLuca, V., Poch, C., Ivanova, I., & Rothman, J. (2025). Starting from the very beginning: Unraveling third language (L3) development with longitudinal data from artificial language learning and related epistemology. *International Journal of Multilingualism, 22*(1), 119–142. https://doi.org/10.1080/14790718.2024.2415993

Bernabeu, P. (2022). *Language and sensorimotor simulation in conceptual processing: Multilevel analysis and statistical power*. Lancaster University. https://doi.org/10.17635/lancaster/thesis/1795

Bernabeu, P., Lynott, D., & Connell, L. (2021). *Preregistration: The interplay between linguistic and embodied systems in conceptual processing*. OSF. https://osf.io/ftydw

Bernabeu, P., & Tillman, R. (2019). More refined typology and design in linguistic relativity: The case of motion event encoding. *Dutch Journal of Applied Linguistics, 8*(2), 163-171. https://doi.org/10.1075/dujal.15019.ber

Bernabeu, P. (2018). *Dutch modality exclusivity norms for 336 properties and 411 concepts*. PsyArXiv Preprints. https://doi.org/10.31234/osf.io/s2c5h

Bernabeu, P. (2017). *Modality switches occur early and extend late in conceptual processing: Evidence from ERPs.* PsyArXiv Preprints. https://doi.org/10.31234/osf.io/5gjvk

Bernabeu, P., Willems, R. M., & Louwerse, M. M. (2017). Modality switch effects emerge early and increase throughout conceptual processing: Evidence from ERPs. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. J. Davelaar (Eds.), *Proceedings of the 39th Annual Conference of the Cognitive Science Society* (pp. 1629-1634). Austin, TX: Cognitive Science Society. https://doi.org/10.31234/osf.io/a5pcz

Bernabeu, P., & Vogt, P. (2015). Language evolution: Current status and future directions. *Tenth Language at the University of Essex (LangUE) Postgraduate Conference*. https://researchgate.net/publication/280858062

DATA & SOFTWARE

2017 – Present	🔗 osf.io/25u3x | 🔗 github.com/pablobernabeu | 🔗 pablobernabeu.github.io

WORKSHOPS

Aug 2020	Open Data and Reproducibility: R Markdown, dashboards and Binder (co-led with Florencia D'Andrea). CarpentryCon@Home, The Carpentries
Jul 2020	Open Data and Reproducibility: R Markdown, dashboards and Binder (co-led with Eirini Zormpa). UK Cognitive Linguistics Conference 2020, U. Birmingham

PRESENTATIONS

Talk (Dec 2025)	Designing a study on the interplay of text, reader and context in children's digital reading comprehension. Developmental Hour, Experimental Psychology, U. Oxford
Lightning talk (Nov 2025)	Scaling systematic reviews: A solo researcher's workflow with Gemini. Gemini Pro Pilot Showcase and Wrap-up Event, University of Oxford
Talk (Feb 2025), invited talk (Nov 2025)	Unpacking ERP responses in artificial language learning. (1) Center for Language, Brain & Learning, UiT; (2) Laboratoire de Psycholinguistique et Logopédie, U. Geneva
Co-organisation and presentations (Nov 2024)	Contributions to EEG and cognition stations at the public outreach event of the Center for Language, Brain and Learning (C-LaBL). Arctic University Museum of Norway.

Posters and speed talk (Oct, Nov 2023; June, July, Aug, Sept, Oct, Nov 2024; Mar, Apr 2025)	Investigating language learning and morphosyntactic transfer longitudinally using artificial languages. (1) AcqVA Aurora, UiT; (2) PoLaR Lab, UiT; (3) SALC9, NTNU; (4) HILS, Radboud U.; (5) IAM L3, U. Groningen; (6) AMLaP, U. Edinburgh; (7) SEPEX, Almería; (8) Psychonomic Society, New York; (9) MULTILINGUA Network, U. Pompeu Fabra; (10) Experimental Psychology Society, Lancaster U.
Posters (May 2021; Sept, Oct 2022; July 2024)	Language and sensorimotor simulation in conceptual processing: Multilevel analysis and statistical power. Presented at: (1) Dept. of Psychology, Lancaster University; (2) ESCOP 2022, France; (3) AcqVA Aurora, UiT; (4) HILS 2024, Radboud U.
Posters (Mar, July, Sept 2024)	Making research materials Findable, Accessible, Interoperable and Reusable. (1) AcqVA Aurora, UiT; (2) HILS 2024, Radboud U.; (3) AMLaP, U. Edinburgh
Poster (Mar 2024)	Is third language learning associated with working memory and implicit learning? AcqVA Aurora Closing Event, UiT The Arctic University of Norway
Poster (Mar 2024)	Effects of cognitive individual differences on cross-linguistic effects in L3 acquisition. AcqVA Aurora Closing Event, UiT The Arctic University of Norway
Talk (May 2021)	Towards reproducibility and maximally-open data. Open Scholarship Prize Competition 2021, Open Scholarship Community Galway
Talk (Nov 2020)	Mixed-effects models in R, and a new tool for data simulation. New Tricks Seminar, Department of Psychology, Lancaster University
Talk (Oct 2020)	Reproducibilidad en torno a una aplicación web. Reprohack at LatinR Conference
Talk (Mar 2020)	Embedding open research and reproducibility in the UG and PGT curricula (with Andrew Stewart and Phil McAleer). SSI Collaborations Workshop
Talk (Dec 2018)	Presenting data interactively online using R Shiny. Lancaster University
Talk (Nov 2018)	Linguistic and embodied systems in conceptual processing: Role of individual differences. Psychology postgraduate medley, Lancaster University
Posters (Jan 2017 x2; Apr, July, Nov 2017)	Modality switch effects emerge early and increase throughout conceptual processing: Evidence from ERPs. Presented at: (1) Event representations in episodic and semantic memory, U. York; (2) Netherlands Graduate School of Linguistics, Radboud U.; (3) Juniorendag, Utrecht U.; (4) 39th Annual Conference of the Cognitive Science Society, London; (5) 58th Annual Meeting of the Psychonomic Society, Vancouver
Talk (June 2016)	Complementary systems for conceptual processing? Modality norms, ERPs and RTs. Synapsium, Radboud University
Poster (May 2016)	Norming study of modality exclusivity in Dutch, and an ongoing EEG study of linguistic and embodied conceptual processing. Psycholinguistics in Flanders
Talk (June 2015)	New reviews and insights on language evolution. Tenth Language at the University of Essex (LangUE) Conference, University of Essex
Posters (Jan, Mar 2015)	Linguistic relativity in motion. (1) Netherlands Graduate School of Linguistics, University of Amsterdam; (2) Juniorendag, Radboud University

FUNDING	https://pablobernabeu.github.io/#funding
2026	Pump priming grant, John Fell Fund, University of Oxford
2021	Open Scholarship Prize joint runner-up. Open Scholarship Community Galway
2020	RepliCATS Grant for research assessments. University of Melbourne
2020	Gorilla Grant to conduct large, online experiment. Gorilla and Prolific
2020	Software Sustainability Institute Fellowship
Apr 2019	Travel grant, UK Open Science Working Group. Aston University
2018 – 2022	Scholarship for PhD and graduate teaching assistantship. Lancaster University
Nov 2017	Psychonomic Society Graduate Travel Award for 58th Annual Meeting
July 2017	Student volunteer, 39th Annual Conference of the Cognitive Science Society

July 2017	Grindley Grant to present at CogSci conference. Experimental Psychology Society
Jan 2017	Grindley Grant to present at conference at U York. Experimental Psychology Society
May – June 2016	Research funding, Neurobiology of Language Dept., MPI Psycholinguistics
2014 – 2015	Tilburg University Scholarship for Academic Excellence

OTHER WORK   https://pablobernabeu.github.io/#other-work

May – July 2018	Service Analyst. Onfido, London
Dec 2015 – Feb 2016	Data Science Market Researcher and Student Recruiter (part-time). Tilburg U.
2013 – 2016	Student Representative at Recruitment Events (part-time). Radboud U., Tilburg U.

SKILLS   https://pablobernabeu.github.io/#skills

Science	Best practices for research integrity, data protection, data management, technical documentation, open science, effective collaboration and project management. Electroencephalography—lab setup, recording, preprocessing, analysis (osf.io/974k8)—, BrainVision, transcranial brain stimulation, eye tracking, online experiments, jsPsych, OpenSesame (github.com/pablobernabeu), Gorilla, ELAN, Turnitin, Zotero
Statistics	Frequentist and Bayesian statistics. Linear mixed-effects models (osf.io/gt5uf), principal component analysis (osf.io/25u3x), etc.
Programming in R	Statistics, modular programming, R Markdown, web applications and dashboards, Rhino, Crosstalk, Plotly, Leaflet, bibliometrics, Binder (github.com/pablobernabeu), big data, natural language processing (osf.io/5kba3), Tidyverse (osf.io/3dw2j)
Web, data, Artificial Intelligence and typesetting	HTML, CSS, Javascript, regular expressions, Git, Linux, bash, containerisation, Python, machine learning models including MediaPipe and Whisper, SQL, AI-assisted development (incl. GitHub Copilot), high-performance computing (incl. Slurm), LaTeX (github.com/pablobernabeu)
Business and admin.	Service analysis. Power BI, Zendesk, Jira, Confluence, Asana, Google Analytics
Languages	*High:* English, Spanish. *Medium:* Catalan, French. *Basic:* Dutch, Hindi, Italian, Norwegian