Willem S. van Boxtel

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PERSONALIA

<u>Citizen</u> of the Netherlands / European Union Citizen
<u>Settled Status</u> (Indefinite Leave to Remain) in the United Kingdom
<u>Visiting Scholar</u> (J–1) in the United States
Languages:
Dutch (native), English (nativelike), German (fluent), French (basic), Turkish (basic)

EDUCATION & EMPLOYMENT

Purdue University Aphasia Lab, West Lafayette (IN, USA)
Postdoctoral Fellow (August 2022 – present)
Description: this multi-site project funded by the National Institutes of Health investigates the role of implicit structural priming on language learning and recovery in aphasia. Principal Investigator: Dr Jiyeon Lee, CCC-SLP.

University of Essex, Colchester (UK)
Doctor of Philosophy, Psycholinguistics (August 2022)
Thesis title: "A Matter of Memory: Sentence Comprehension in Healthy Aging"
Supervised by Dr Laurel Lawyer

University of Essex, Colchester (UK)
Master of Arts MA, Psycholinguistics (September 2019)
Completed with Distinction

Birmingham City University, Birmingham (UK)
Bachelor of Arts with Honours, English (July 2018)
Completed with Distinction

RESEARCH INTERESTS

- Cognitive mechanisms underlying sentence processing. Implicit/statistical learning, language, and aging. Working Memory, Processing Speed, and implicit learning across the lifespan.
- 'Atypical' sentence processing and use of impaired and aging data to inform linguistic and cognitive theory.
- Advanced statistical modelling, including multilevel modelling for proportional / bounded variables, applied Bayesian models, Beta and zero-inflated regression.
- Experimental methods applied to cognition and language, using neuroimaging methods to study underlying cognitive patterns during language processing.
- Development & application of new experimental techniques, including webcam-based eye-tracking and structural priming.

PUBLICATION RECORD

Van Boxtel, W.S., Linge, M., Manning, R.C.G., Haven, L., and Lee, J. (in prep.) Online eye-tracking for aphasiology and linguistics: a feasibility study. *Behavior Research Methods*. https://osf.io/n6gu7/.

Van Boxtel, W.S. & Lawyer, L.A. (2023). In the Prime of Life: ERP Evidence for Syntacic Comprehension Priming in Older Adults. *Journal of Language and Aging Research*, vol.1(1). https://osf.io/3yrnv/.

Van Boxtel, W.S., Cox, B., Keen, A., and Lee, J. (2023). Anticipatory processing in aphasia: Evidence from structural Priming. *Frontiers in Language Sciences*, 2:1175579 https://doi.org/10.3389/flang.2023.1175579.

Van Boxtel, W.S. & Lawyer, L.A. (2022). Syntactic Comprehension Priming and Lexical Boost Effects in Older Adults. *Language, Cognition, Neuroscience.* `https://doi.org/10.1080/23273798.2022.2091151`

Van Boxtel, W.S. & Lawyer, L.A. (2021). Sentence Comprehension in Aging and Alzheimer's Disease. *Language and Linguistics Compass*, vol.15(6). DOI: `https://doi.org/10.1111/lnc3.12430`.

Jerro, K., O'Gara, F., Ngoboka, J.P., Lawyer, L.A., and **Van Boxtel, W.S.** (under review). Meaning or Morphology: Individual Differences in the Categorization of Kinyarwanda Nouns. *Glossa Psycholinguistics.*

Van Boxtel, W.S. & Lawyer, L.A. (under review). A Matter of Memory? Age-Invariant Relative Clause Disambiguation And Memory Interference in Older Adults. *Thematic Issue on Language Change and Impairment in Healthy Aging, Topics in Cognitive Science.* `https://osf.io/eympz/`.

SERVICE TO THE FIELD	**Reviewer – European Science Foundation / Research Foundation Flanders Junior & Senior Research Projects**	**May-June 2023**
	Judge – Purdue Office of Undergraduate Research Undergraduate Research Conference	**April 2023**
	Reviewer – Indiana Clinical and Translational Studies Institute Postdoctoral Funding Challenge	**Spring 2023**
	Conference Organisation – Language at the University of Essex	**Jan 2020 – July 2021**
	Research Assistant – Language Attrition & EEG	**June 2021 - Aug 2022**

Periodic Reviews:

Aphasiology	April 2023	**Frontiers in Psychology**	December 2022, July 2023
Nature Scientific Reports	October 2022	**Intl. Journal of Language and Communication Disorders**	August 2022
Neuropsychology Review	August 2022	**Cognition**	June 2022
Frontiers in Education	June 2022	**Essex Student Journal**	Febr '21 — July '22

COMMUNITY OUTREACH	**Tippecanoe County Senior Services Educational Talk**	**9th November 2023**
	Living Truth of Christ Church Outreach & Recruitment Session	**September 2022**
AWARDS	**Purdue Health and Human Sciences Life Inspired Research Event First Place Poster Award**	**March 2023**
	Associate Fellow of the United Kingdom Higher Education Academy (commended)	**Jul 2021 - Present**
	Howard Jackson Prize (Birmingam City University)	**Jun 2018**

SKILLS	**Tools:** EEG/ERP recording, Eye-Tracking (including online), OpenSesame, PsychoPy/Pavlovia, E-Prime, EEGlab, EyeLink, PRAAT, Gorilla.sc
	Coding: R (fluent), LaTeX (fluent), (R) Markdown (fluent), Unix/Linux (familiar), Python (familiar), Matlab/EEGlab (familiar).
	General: advanced mixed regression modelling (including non–linear and Bayesian), descriptive/inferential statistics, experimental design

TEACHING EXPERIENCE

Co-Instructor, Speech-Language Disorders   Autumn 2023
in Health Care Settings (SLHS 430)

Postdoctoral Fellowship – Mentoring   Aug 2022–present
From August 2022 I took part in mentoring three undergraduate, two graduate, and three PhD students in the use of behavioral and eye–tracking research methodology, lab management, and data analysis.

Postdoctoral Fellowship – Statistics Club   Fall 2022–present
During my time as a postdoctoral fellow, I initiated and currently convene a lab-wide research methods and statistics reading and tutoring group, which seeks to instruct lab members on the interpretation and implementation of common data analysis methods.

Assistant Lecturer   Oct 2020-Mar 2022
University of Essex - Understanding Data in Linguistics

Graduate Teaching Assistant   Oct-Dec 2019
University of Essex - Child Language Development

Classroom Assistant   Nov 2017 - Jun 2018
Birmingham City University

INVITED TALKS

University of Essex   19th October 2023
Department of Language and Linguistics

Beckman Institute / University of Illinois   8th February 2023
Language Rehabilitation through Syntactic Priming: Evidence from healthy older adults and people with aphasia

Purdue National Student Speech, Language, and   9th November 2022
Hearing Association Assessment Tool Workshop

FUNDING & GRANTS

National Aphasia Association   Summer 2023
Barbara Martin Aphasia Research Grant   ($10,000; Under review)
To conduct foundational research on the implicit and explicit memory mechanisms underlying sentence comprehension across the lifespan, this grant application seeks funding from the National Aphasia Association.

Purdue Institute for Integrative Neuroscience   12 Dec 2022
Travel Award   ($300)

University of Essex Faculty of Social Sciences   from Oct 2019
Executive Dean's Fund   (£5,071)
Psychology of Noun Classes in Kinyarwanda

Essex Social Sciences Doctoral Scholarship   2019-2022
(Approx. £40,000)

CONFERENCE ATTENDACE

10/2023 (upcoming – accepted). Willem van Boxtel, Briana Cox, Austin Keen, & Jiyeon Lee. Priming from sentence comprehension to production in aphasia: evidence from eye-tracking. Academy of Aphasia Annual Meeting 2023, Reading, UK.

11/2023 (upcoming – accepted). Willem van Boxtel, Michael Linge, Rylee Manning, Lily Haven, & Jiyeon Lee. Online Eye-Tracking for Clinical Research: A Validation Study with Aphasia Patients. American Speech-Hearing Association Annual Convention, Boston, MA, USA.

10/2023 (upcoming – accepted). Willem van Boxtel, Michael Linge, Rylee Manning, Lily Haven, & Jiyeon Lee. Online Eye-Tracking for Clinical Research: A Validation Study with Aphasia Patients. Society for the Neurobiology of Language 2023, Marseille, France.

4/2023. Nadia Seye, Willem van Boxtel, Josua Weirick, & Jiyeon Lee. The influence of sentence production training on speech fluency in post-stroke aphasia and older adults. Purdue Undergraduate Research Conference, Purdue University, West Lafayette, IN.

3/2023. Willem van Boxtel, Michael Linge, Rylee Manning, Lily Haven, & Jiyeon Lee. Remote Eye-Tracking for Clinical Research: Designing a Validation Study with Aphasia Patients. Health and Human Sciences Life Inspired Research Event, Purdue University, West Lafayette, IN.

10/2022. Willem van Boxtel & Laurel Lawyer. There Is No Age-Related Sentence Processing Deficit: Experimental Evidence and Implications for Aphasiology. Academy of Aphasia Annual Meeting 2022, Philadelphia, PA, United States.

10/2022. Willem van Boxtel & Laurel Lawyer. In the Prime of Life: ERP Evidence for Syntactic Comprehension Priming in Older Adults. (Poster). Society for the Neurobiology of Language Annual Meeting 2022, Philadelphia, PA, United States.

6/2022. Willem van Boxtel & Laurel Lawyer. In the Prime of Life: Learning of Syntactic Processing Is Intact in Older Adults. (Poster). Centre for Language Development throughout the Lifespan (LaDeLi), University of Essex, Colchester, UK.

4/2022. Willem van Boxtel & Laurel Lawyer. In the Prime of Life: Electrophysiological Evidence for Syntactic Comprehension Priming in Older Adults. (Poster). 2022 Cognitive Aging Conference, Atlanta, GA, United States.

3/2022. Willem van Boxtel & Laurel Lawyer. A Matter of Memory? Age-Invariant Relative Clause Disambiguation And Memory Interference in Older Adults. Corpora on Language and Aging Research 5 (CLARE5), Anchorage, AK, United States.

4/2021. Willem van Boxtel & Laurel Lawyer. Syntactic Representations Remain Intact in Aging: Evidence from Structural Comprehension Priming. International Workshop on Language in Healthy and Pathological Aging, University of Salamanca, Spain.

7/2020. Willem van Boxtel & Laurel Lawyer. The Bilingual Mind Matters: An EEGs Study into Inhibition Advantages in Sequential Bilinguals. UK Cognitive Linguistics Conference, Birmingham, UK.

6/2020. Kyle Jerro, Laurel Lawyer, Fate O'Gara, Willem van Boxtel. A Quantitative Study of Noun Classes in Kinyarwanda. Bantu 8. Colchester, UK.

6/2019. Willem van Boxtel. Inhibitory Control in a Bilingual Stroop Task: Evidence from ERPs and Reaction Time. LangUE. Colchester, UK.

4/2019. Willem van Boxtel. Passive Comprehension in English and Dutch Broca's Aphasia: Proposing a Comparative Cross-linguistic Study. Essex Graduate Conference in Linguistics. Colchester, UK.

RELEVANT COURSES	**Introduction to Python for Social Scientists (University of Essex)**	**Jul 2021**
	Virtual EEGLAB Workshop UC San Diego	**Jun 2021**
	Routes to Impact (University of Essex)	**17th Mar 2021**
	Cognitive and Affective Neurophysiology Summer School (University of Porto)	**7-10th Sep 2020**
	MATLAB & PsychToolBox (University of Essex)	**Jan 2020**