

# Elizabeth Pankratz

## Curriculum Vitae

### Education

Sep. 2021–present	<b>PhD in Linguistics and English Language (Centre for Language Evolution)</b> University of Edinburgh, Scotland <ul style="list-style-type: none"><li>– Supervisors: Prof. Jennifer Culbertson and Prof. Simon Kirby</li></ul>
Oct. 2019–Aug. 2021	<b>Master of Science in Cognitive Systems: Language, Learning, and Reasoning</b> Universität Potsdam, Germany <ul style="list-style-type: none"><li>– Thesis: <i>Morphological productivity: A Bayesian modelling approach</i></li><li>– Supervisors: Prof. Shravan Vasishth and Dr. Titus von der Malsburg</li></ul>
Oct. 2017–Jul. 2019	<b>Master of Arts in Linguistics</b> Humboldt-Universität zu Berlin, Germany <ul style="list-style-type: none"><li>– Thesis: <i>A study of diachronic changes in the productivity of several Early New High German derivational morphemes using the RIDGES corpus</i></li><li>– Supervisor: Prof. Anke Lüdeling</li></ul>
Sep. 2013–Jun. 2017	<b>Bachelor of Arts (Honours) in Linguistics &amp; German language and literature</b> University of Alberta, Canada (with year abroad at the Freie Universität Berlin) <ul style="list-style-type: none"><li>– First Class Honours, best of graduating class</li><li>– Thesis: <i>Effects of plural semantics on linking element alternation in German nominal compounds</i></li><li>– Supervisors: Prof. Jennifer Dailey-O’Cain and Prof. Jordan Lachler</li></ul>

### Research experience

Aug. 2020–Sep. 2021	<b>Researcher (“Wissenschaftliche Mitarbeiterin”)</b> Humboldt-Universität zu Berlin, CRC 1412 Register, Project A04 <ul style="list-style-type: none"><li>– Application of Bayesian machine learning methods (LDA) to probabilistically identify register in corpora</li><li>– Publication of one journal paper and presentation of two conference/colloquium talks</li></ul>
Feb. 2021–Jul. 2021	<b>Research assistant to Dr. Titus von der Malsburg</b> Universität Potsdam <ul style="list-style-type: none"><li>– Psycholinguistic research on the effect of single- vs. multi-trial experiment designs</li></ul>
Jan. 2018–Jun. 2018, Oct. 2019–Sep. 2020	<b>Student assistant to Dr. Bob van Tiel</b> Leibniz-Centre General Linguistics (ZAS), Berlin <ul style="list-style-type: none"><li>– Psycholinguistic research on processing of scalar inferences</li><li>– Publication of two journal papers and presentation of two conference posters</li></ul>
Dec. 2017–Sep. 2019	<b>Student assistant to Prof. Uli Reich</b> Freie Universität Berlin <ul style="list-style-type: none"><li>– Creation of a freely-available audio corpus of Conchucos Quechua using Praat, ELAN, and Python</li></ul>
Apr. 2014–Jun. 2014	<b>Student assistant to Prof. Antti Arppe (Volunteer position)</b> University of Alberta <ul style="list-style-type: none"><li>– Fieldwork and documentation of Plains Cree in Maskwacîs, Alberta</li></ul>

### Teaching

#### • Lecturing and course design

2023	<b>Statistics and Quantitative Methods</b> University of Edinburgh <ul style="list-style-type: none"><li>– Held three lectures on binomial models, interactions with categorical and continuous predictors, and interpreting Bayesian model estimates</li><li>– Designed two of those lectures and the accompanying tutorials</li><li>– Created formative and summative assessments</li></ul>
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#### • Tutoring

2022–2023	<b>Statistics and Quantitative Methods</b> University of Edinburgh <ul style="list-style-type: none"><li>– Honours (advanced undergraduate) and postgraduate course on data manipulation, visualisation, and analysis in the Bayesian framework using R</li></ul>
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## LEL2D: Cross-linguistic Variation: Limits and Theories

University of Edinburgh

- Pre-honours (early undergraduate) course on typological variation and its influence on linguistic theory

## Simulating Language

University of Edinburgh

- Honours (advanced undergraduate) and postgraduate course on implementing Bayesian models of language evolution using Python

## PPLS Skills Centre

University of Edinburgh

- One-on-one consultation appointments to help students improve their academic writing

## • Workshops

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|------|---|
| 2023 | <b>Bayes, stat! A crash course in Bayesian inference</b><br>Centre for Language Evolution annual retreat <ul style="list-style-type: none"><li>– Two two-hour sessions giving a conceptual and practical introduction to Bayesian modelling in R using brms</li></ul> |
| 2022 | <b>Narrative design for academic storytelling</b><br>Centre for Language Evolution annual retreat <ul style="list-style-type: none"><li>– A two-hour session on the fundamentals of narrative structure and how using it can improve academic writing</li></ul>       |

## Copy editing and proofreading

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| Sep. 2019–May 2021  | <b>Copy editor and proofreader of <i>Head-Driven Phrase Structure Grammar: The handbook</i></b><br>Humboldt-Universität zu Berlin/Language Science Press, Berlin <ul style="list-style-type: none"><li>– Copy editing and proofreading of 30+ chapters</li></ul> |
| Jan. 2018–Mar. 2018 | <b>Proofreader for the proceedings of <i>Sinn und Bedeutung 22</i></b><br>Leibniz-Centre General Linguistics (ZAS), Berlin <ul style="list-style-type: none"><li>– Proofreading of 5+ papers</li></ul>   |

## Publications

### • Preprints

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|------|---|
| 2022 | <b>Pankratz, E., von der Malsburg, T., &amp; Vasishth, S. (2022).</b> Shannon entropy is a more comprehensive and principled morphological productivity measure than the standard alternatives. <i>PsyArXiv</i> . <a href="https://doi.org/10.31234/osf.io/vkyug">https://doi.org/10.31234/osf.io/vkyug</a> . |
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### • Journal papers

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|------|---|
| 2023 | Pescuma, V. N., Serova, D., Lukassek, J., Sauermann, A., Schäfer, R., Adli, A., Bildhauer, F., Egg, M., Hülk, K., Ito, A., Jannedy, S., Kordoni, V., Kuehnast, M., Kutscher, S., Lange, R., Lehmann, N., Liu, M., Lütke, B., Maquate, K., ... Knoeferle, P. (2023). Situating language register across the ages, languages, modalities, and cultural aspects: Evidence from complementary methods. <i>Frontiers in Psychology</i> , 13. <a href="https://doi.org/10.3389/fpsyg.2022.964658">https://doi.org/10.3389/fpsyg.2022.964658</a> . |
| 2022 | <b>Pankratz, E., Arppe, A., &amp; Lachler, J. (2022).</b> Low hanging fruit and the Boasian trilogy in digital lexicography of morphologically rich languages: Lessons from a survey of Indigenous language resources in Canada. <i>Nordlyd</i> , 46(1), 193–204. <a href="https://doi.org/10.7557/12.6441">https://doi.org/10.7557/12.6441</a> .   |
| 2021 | <b>Pankratz, E., &amp; van Tiel, B. (2021).</b> The role of relevance for scalar diversity: A usage-based approach. <i>Language and Cognition</i> , 13(4), 562–594. <a href="https://doi.org/https://www.doi.org/10.1017/langcog.2021.13">https://doi.org/https://www.doi.org/10.1017/langcog.2021.13</a> .<br>van Tiel, B., & <b>Pankratz, E. (2021).</b> Adjectival polarity and the processing of scalar inferences. <i>Glossa</i> , 6(1), 32. <a href="https://doi.org/10.5334/gjgl.1457">https://doi.org/10.5334/gjgl.1457</a> .       |
| 2019 | van Tiel, B., <b>Pankratz, E., &amp; Sun, C. (2019).</b> Scales and scalarity: Processing scalar inferences. <i>Journal of Memory and Language</i> , 105, 93–107. <a href="https://doi.org/10.1016/j.jml.2018.12.002">https://doi.org/10.1016/j.jml.2018.12.002</a> .   |
| 2018 | Schäfer, R., & <b>Pankratz, E. (2018).</b> The plural interpretability of German linking elements. <i>Morphology</i> , 28(4), 325–358. <a href="https://doi.org/10.1007/s11525-018-9331-5">https://doi.org/10.1007/s11525-018-9331-5</a> .  |

## • Conference proceedings

- 2021 **Pankratz, E.**, Yadav, H., Smith, G., & Vasishth, S. (2021). Statistical properties of the speed-accuracy trade-off (SAT) paradigm in sentence processing. *Proceedings of the Annual Meeting of the Cognitive Science Society*, 43, 2176–2182.
- Pankratz, E.** (2021). qxoRef 1.0: A coreference corpus and mention-pair baseline for coreference resolution in Conchucos Quechua. *Proceedings of the First Workshop on Natural Language Processing for Indigenous Languages of the Americas*, 1–9. <https://doi.org/10.18653/v1/2021.americasnlp-1.1>.
- 2019 van Tiel, B., **Pankratz, E.**, Marty, P., & Sun, C. (2019). Scalar inferences and cognitive load. *Proceedings of Sinn Und Bedeutung* 23, 427–441.
- 2017 Lachler, J., & **Pankratz, E.** (2017). Moving towards value-added digital repatriation in lexicography for Indigenous languages in Canada. In N. Ostler, V. Ferreira, & C. Moseley (Eds.), *Proceedings of the 21st FEL Conference: Communities in Control: Learning tools and strategies for multilingual endangered language communities* (pp. 107–114).

## • Resources

- 2021 **qxoRef 1.0: A coreference corpus for Conchucos Quechua**  
<https://github.com/epankratz/qxoRef>

## Presentations

### • Invited

- 2021 **Pankratz, E.** (2021). *An entropy-based approach to measuring morphological productivity*. Humboldt-Universität Colloquium for Corpus Linguistics.
- Pankratz, E.** (2021). *Coreference resolution for Conchucos Quechua*. Freie Universität Berlin Romanistisches Forschungskolloquium.

### • Talks

- 2022 **Pankratz, E.** (2022). *Do entropy, type count, and distribution shape influence the learning of non-adjacent dependencies?* Centre for Language Evolution Talk Series.
- Pankratz, E.**, von der Malsburg, T., & Vasishth, S. (2022). *An entropy-based approach to measuring morphological productivity*. How productive is derivational morphology? (Workshop at the 44th annual DGfS conference).
- 2021 Sun, C., **Pankratz, E.**, & van Tiel, B. (2021). *Polarity modulates the processing cost of scalar implicatures*. Architectures and Mechanisms for Language Processing (AMLaP 2021).
- Bildhauer, F., **Pankratz, E.**, & Schäfer, R. (2021). *Corpora, inference, and models of register distributions*. Contrastive corpus methodology for language modeling and analysis (Workshop at the 43rd annual DGfS conference).
- Lüdeling, A., Schäfer, R., **Pankratz, E.**, Krause, T., Bildhauer, F., & Golcher, F. (2021). *What is a good corpus?* Humboldt-Universität Register Colloquium (CRC 1412).
- Hübener, C., & **Pankratz, E.** (2021). *Verfugungswandel von Determinativ- und Rektionskomposita – ein Fall von Regularisierung?* Humboldt-Universität Colloquium for Corpus Linguistics.
- 2020 van Tiel, B., & **Pankratz, E.** (2020). *Adjectival polarity and the processing of scalar implicature*. Sinn und Bedeutung 25.
- van Tiel, B., & **Pankratz, E.** (2020). *Polarity in scalar inference processing*. Degree expressions and polarity effects (Workshop at Leibniz ZAS).
- 2019 **Pankratz, E.**, Lachler, J., & Arppe, A. (2019). *A survey of Indigenous language tools: The emergence of two lexicographical approaches among Indigenous languages of Canada*. 6th International Conference on Language Documentation & Conservation (ICLDC6).
- Pankratz, E.** (2019). *Derivational morphology in Early New High German*. Humboldt-Universität Colloquium for Corpus Linguistics.
- 2017 Lachler, J., & **Pankratz, E.** (2017). *Moving toward value-added digital repatriation in lexicography for Indigenous languages in Canada*. 21st FEL Conference: Communities in Control: Learning tools and strategies for multilingual endangered language communities.
- Pankratz, E.** (2017). *Language maintenance in a global world: Creating a middle ground for Plautdietsch in 21st-century Canada*. University of Alberta MLCS Undergraduate Conference.

## • Posters

2023	Keogh, A., <b>Pankratz, E.</b> , Kirby, S., & Culbertson, J. (2023). <i>The role of production for morphosyntactic generalisation</i> . 77th Language Lunch at Edinburgh.
2021	<b>Pankratz, E.</b> , Yadav, H., Smith, G., & Vasishth, S. (2021). <i>Statistical properties of the speed-accuracy trade-off (SAT) paradigm in sentence processing</i> . Annual Meeting of the Cognitive Science Society (CogSci 2021). <b>Pankratz, E.</b> (2021). <i>qxoRef 1.0: A coreference corpus and mention-pair baseline for coreference resolution in Conchucos Quechua</i> . The First Workshop on NLP for Indigenous Languages of the Americas (AmericasNLP) at NAACL 2021.
2020	<b>Pankratz, E.</b> , & van Tiel, B. (2020). <i>Can usage of scalar adjectives predict scalar inference rates?</i> UK Cognitive Linguistics Conference 2020 (UKCLC 2020).
2019	van Tiel, B., <b>Pankratz, E.</b> , & Sun, C. (2019). <i>Scales and scalarity: Processing scalar inferences</i> . XPRAG 2019.
2018	van Tiel, B., <b>Pankratz, E.</b> , & Sun, C. (2018). <i>Processing scalar diversity</i> . Sinn und Bedeutung 23.

## Supervision

2023	<b>Sigurd Farstad Iversen</b> University of Edinburgh, MSc in Evolution of Language and Cognition
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## Reviewing

2022–2023	<b>Annual Meeting of the Cognitive Science Society (CogSci 2022, 2023)</b>
2022	<b>First Language and Interaction Network event (LINK) 2022</b>
2021	<b>Complexity and Register 2021 (CAR21)</b>
2020	<b>12th Web as Corpus Workshop (WAC-XII), co-located with LREC 2020</b>

## Event organisation

2022–2023	<b>Centre for Language Evolution talks</b> Weekly hybrid talk series (University of Edinburgh)
2022	<b>Linguistic Circle</b> Biweekly hybrid talk series (University of Edinburgh)
2022	<b>Edinburgh Lectures in Language Evolution (ELLE) 2022</b> Four-lecture hybrid talk series with hundreds of attendees (University of Edinburgh, June 2–23, 2022)
2021	<b>Complexity and Register 2021 (CAR21)</b> Hybrid workshop with 30+ attendees (Humboldt-Universität zu Berlin, November 19, 2021)
2019	<b>XXII. Deutscher Hispanistentag</b> Conference with 600+ attendees (Freie Universität Berlin, March 27–31, 2019)

## Funding

2021–2025	<b>ESRC-funded PhD Studentship</b> Scottish Graduate School of Social Science
2021–2025	<b>SSHRC Doctoral Fellowship</b> Social Sciences and Humanities Research Council of Canada
2019–2021	<b>University Scholarship Potsdam (previously Deutschlandstipendium)</b> Universität Potsdam
2017–2019	<b>Konrad Adenauer Foundation</b> Scholarship Program for International Students
2017	<b>Undergraduate Research Initiative at the University of Alberta</b> CAD 5000 funding for the summer research project <i>Digital lexicography of Canadian Indigenous languages</i> with Prof. Jordan Lachler and Prof. Antti Arppe

## Awards and recognition

2021	<b>Sir James Lougheed Award of Distinction – Master’s Level (CAD 15,000)</b> Alberta Scholarships
2019	<b>Featured as one of the LINGUIST List’s Rising Stars</b> Nominated by Dr. Roland Schäfer and Prof. Anke Lüdeling
2017	<b>The Dr. John MacDonald Medal in Arts (CAD 1100)</b> For best graduating mark in the Faculty of Arts at the University of Alberta
2014–2017	<b>Seven awards for academic achievement and extracurricular involvement (total CAD 14,200)</b> University of Alberta <ul style="list-style-type: none"><li>– The Rod and Judith Fraser International Undergraduate Learning Award (CAD 4500)</li><li>– The Louise McKinney Post-Secondary Scholarship (CAD 2500)</li><li>– The Mrs. Kathe &amp; Mr. Siegfried Klotsche Scholarship in German (CAD 2200)</li><li>– The Edelweiss-Club Scholarship (CAD 1750)</li><li>– The Catherine McLean Scholarship in Arts (CAD 1500)</li><li>– The Jason Lang Scholarship (CAD 1000)</li><li>– The Catherine Folinsbee Memorial Scholarship (CAD 750)</li></ul>

## Outreach

2019	<b>What it means to know a language</b> Pop linguistics talk to 50+ attendees at the Pint of Science Festival 2019, Berlin
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## Skills

<b>Languages</b>	English (first language), German (C1), French (basic)
<b>Programming</b>	Python, R, Stan
<b>Mark-up</b>	LaTeX, HTML, Rmarkdown, Quarto, xaringan
<b>Version control</b>	Git, GitHub
<b>Statistical analysis</b>	Bayesian methods, frequentist methods
<b>Experiments</b>	jsPsych, Ibex Farm, Testable, Prolific, Amazon Mechanical Turk
<b>Other software</b>	Adobe Photoshop, Microsoft Office, Praat, ELAN