

Sara Court

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EDUCATION

The Ohio State University <i>Ph.D. Linguistics</i> Responsible Applications of LLMs in Low-Resource Domains	Aug 2020 – Present <i>Columbus, OH</i> Expected graduation: Dec. 2026
The Ohio State University <i>M.A. Linguistics</i>	Aug 2025 <i>Columbus, OH</i>
University of Florida <i>B.A. Linguistics with Mathematics minor</i> Bilingual Processing of Number Agreement in English, Spanish, and Arabic	Aug 2013 <i>Gainesville, FL</i>

TECHNICAL SKILLS

- **Machine learning and generative AI:** PyTorch, TensorFlow, Transformers, LangChain/LangGraph, Chroma
- **Data analysis and collaboration:** Python3, Pandas, Matplotlib, Bash/Unix, GitHub, CUDA, SGE, Slurm, uv
- **Front-end development:** Some experience with Javascript, Vue.js, TensorFlow.js, Django, and SQL

PROJECTS

- Retrieval-augmented (RAG) pipeline using LLM agents for bias mitigation in low-resource domains
- Active-learning methods and interface development for semi-supervised human-in-the-loop data processing
- Transformer models for text generation and analysis of typologically diverse human languages
- Python CLI tools for local and API-based music library management and analysis

RESEARCH EXPERIENCE

Ph.D. Research Scientist <i>Department of Linguistics, The Ohio State University</i>	Aug 2020 – Present <i>Columbus, OH</i>
<ul style="list-style-type: none">▪ Implement novel natural language processing (NLP) and machine translation (MT) pipelines leveraging large language models (LLMs) to address data sparsity in collaboration with speakers of under-represented languages▪ Lead a team exploring active learning and human-in-the-loop workflows for automated data annotation and analysis, resulting in peer-reviewed publications and an invited talk at the University of Helsinki▪ Develop Transformer-based AI models of morphological inflection, contributing to NSF-funded research on the role of analogy in the mental lexicon▪ Designed curriculum, implemented web interface, and taught statistics for CogSciDIY, a semester-long language science outreach program for approximately 50 high school students in Columbus, OH and New York, NY▪ Publish and present research at top-tier peer-reviewed conferences in computational linguistics/NLP (ACL; EMNLP; COLM; SCiL; COLING), language documentation (LD&A), and morphology (IMM; MMM)	

NLP Research Intern

Speech Technology and Research (STAR) Lab, SRI International	May 2023 - Aug 2024 <i>Menlo Park, CA</i>
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May 2024 – Aug 2024

- Analyzed OCR finetuning experiments across multiple languages and conditions to enhance multilingual support and create visualizations to share outcomes with clients
- Innovated an error-tracking tool for a speech translation pipeline to optimize data flow and error analysis in large-scale and multi-stage processing environments

May 2023 – Aug 2023

- Developed and analyzed transformer models for Mandarin-English machine translation and English ASR
- Translated and curated a custom in-house test dataset (~900 items) for Mandarin-English machine translation
- Initiated and drafted onboarding documentation to assist future hires with technical setup and lab best practices

Research Assistant	Mar 2020 – Aug 2020
<i>Department of Linguistics, National Taiwan University</i>	<i>Taipei, Taiwan</i>
<ul style="list-style-type: none"> Led group discussions in Mandarin Chinese on NLP concepts as part of the lab's continued learning initiatives Co-authored COLING publication on computational methods for Mandarin morphological analysis 	
Research Fellow	Oct 2013 – Dec 2013
<i>Innovative Networking in Infrastructure for Endangered Languages (INNET)</i>	<i>Cologne, Germany and Nijmegen, Netherlands</i>
	<i>hosted by the University of Cologne & The Language Archive (TLA) at the Max Planck Institute for Psycholinguistics</i>
<ul style="list-style-type: none"> Awarded one of two government fellowships funded by CLARIN ERIC and the European Commission to help build collaborative digital infrastructure for language research, documentation, analysis, and multimedia archives Participated in the 2013 INNET workshop for regional archivists to discuss server virtualization, language archiving software solutions, the CLARIN European infrastructure project for language resources, and the creation of language archive portals using the WordPress content management system 	
Research Assistant	Aug 2011 – Aug 2013
<i>Department of Linguistics, University of Florida</i>	<i>Gainesville, FL</i>
<ul style="list-style-type: none"> Developed stimuli, conducted experiments, and analyzed results of eye-tracking and self-paced reading tasks culminating in a self-directed honors thesis using psycholinguistic methods to investigate the effects of multilingualism on plural agreement in English 	
SELECTED PUBLICATIONS	
<ul style="list-style-type: none"> Sara Court, Lara Downing, and Micha Elsner. 2025. LLMs in the Real World: Evaluating “AI” in Emergency Contexts. Under review. Sara Court and Micha Elsner. 2024. Shortcomings of LLMs for Low-Resource Translation: Retrieval and Understanding are Both the Problem. In <i>Proceedings of the Ninth Conference on Machine Translation (WMT24)</i>, pages 1332–1354. Miami, Florida, USA. Association for Computational Linguistics. Sara Court, Andrea D. Sims, and Micha Elsner. 2023. Analogy in Contact: Modeling Maltese Plural Inflection. In <i>Proceedings of the Society for Computation in Linguistics</i>: Vol. 6, Article 6, pages 35-46. Amherst, Massachusetts. Micha Elsner and Sara Court. 2022. OSU at SigMorphon 2022: Analogical Inflection With Rule Features. In <i>Proceedings of the 19th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology</i>, pages 220–225, Seattle, Washington. Association for Computational Linguistics. Maria Copot, Sara Court, Noah Diewald, Stephanie Antetomaso, and Micha Elsner. 2022. A Word-and-Paradigm Workflow for Fieldwork Annotation. In <i>Proceedings of the Fifth Workshop on the Use of Computational Methods in the Study of Endangered Languages</i>, pages 159–169, Dublin, Ireland. Association for Computational Linguistics. Yu-Hsiang Tseng, Shu-Kai Hsieh, Pei-Yi Chen, and Sara Court. 2020. Computational Modeling of Affixoid Behavior in Chinese Morphology. In <i>Proceedings of the 28th International Conference on Computational Linguistics</i>, pages 2879–2888, Barcelona, Spain (Online). International Committee on Computational Linguistics. 	
AWARDS & HONORS	
<ul style="list-style-type: none"> FLAS Fellowship, Quechua, U.S. Department of Education Honorable Mention, National Science Foundation Graduate Research Fellowship Program (GRFP) Huayu Enrichment Scholarship, Taiwan (R.O.C.) Ministry of Education Fellowship with INNET Project, CLARIN ERIC & European Commission 	<p style="text-align: right;">Summer 2022</p> <p style="text-align: right;">Spring 2022</p> <p style="text-align: right;">Fall 2016</p> <p style="text-align: right;">Fall 2013</p>

WORK EXPERIENCE

- Freelance Copy Editor and Translator** Aug 2011 – Present
- Translate from Mandarin Chinese to English and edit English academic and commercial publications in Linguistics, Healthcare, Education, Technology, and Business
 - Deliver web copy, marketing materials, PhD theses, and book manuscripts to clients while communicating with multiple stakeholders and meeting short deadlines and fast turnarounds
- Director of Communications** Jan 2014 – May 2015
- Allogy* *Orlando, FL & Nairobi, Kenya*
- Led a team of writers and designers to update company websites and draft white papers, conference proposals, grant applications, and multimedia web content

- Digital Content Editor** May 2012 – Jan 2014
- Allogy* *Orlando, FL & Nairobi, Kenya*
- Collaborated with local partners to format education and healthcare materials using HTML and Allogy's CMS

LEADERSHIP & SERVICE

- AI Literacy Consultant & Workshop Facilitator** Jan 2024 – Present
- Provide expertise in collaboration with organizations such as the Community Refugee & Immigration Services ([CRIS](#)), the Center for Healthy Families ([CFHF](#)), and the Center for Democracy and Technology ([CDT](#))
 - Design and deliver hands-on workshops on AI basics, digital literacy, and tech career paths with a focus on empowering underrepresented communities in Franklin County
 - Develop resources and lead discussions on computer science, digital empowerment, and workforce access to help reduce barriers and improve representation in AI, software, data, and technology fields

- President** Aug 2023 – Aug 2024
- Student Linguistics Society (SLA)* *Columbus, OH*
- Awarded \$1,000 grant from the university's Office of Diversity, Equity, Inclusion, and Justice (DEIJ) to implement a “hidden curriculum” mentorship program for incoming graduate students, including team-building activities and workshops on Imposter Syndrome, mental health, and professionalization skills
 - Established SLA Teams SharePoint to streamline communication and resource sharing among grad students
 - Led revisions to optimize department infrastructure and operations resulting in new communication pipelines and more efficient collaborations among Linguistics graduate students and faculty

- Vice President** Aug 2022 – Aug 2023
- Student Linguistics Society (SLA)* *Columbus, OH*
- Created cloud-based shared teaching materials repository to support GTA instructors of undergraduate courses
 - Organized recruitment weekend and prepared informational welcome materials for incoming 1st year students

NATURAL LANGUAGES

- English (native)
- Mandarin Chinese (fluent)
- French (conversational)
- Spanish (conversational)
- Maltese (intermediate)
- Quechua (intermediate)