Catherine Arnett

ccarnett@ucsd.edu   https://catherinearnett.github.io/

Education

PhD Candidate, Linguistics with Computational Social Science, UC San Diego   **2019-**
   Committee: Farrell Ackerman, Benjamin Bergen, Leon Bergen, Victor Ferreira

MA Chinese and Linguistics (Hons), University of Edinburgh   **2014-2018**
   Including one year exchange at Zhejiang University, Hangzhou, P.R. China

Teaching

Graduate Teaching Consultant for International Instructors, UC San Diego   2022-
   Instruct incoming international graduate students in teaching skills and subject-specific English

Instructor, LIGN 170: Psycholinguistics, UC San Diego   Summer 2023
   Course Website

Teaching Assistant, UC San Diego   2019-2022
   LIGN 101: Introduction to Language, Fall 2020-Spring 2022
   LIDS 19: Independent Language Study, Winter 2020-Spring 2020
   LIGN 170: Psycholinguistics, Fall 2019

Publications

Refereed Conference Proceedings

1. James A. Michaelov*, **Catherine Arnett***, Tyler A. Chang, Benjamin K. Bergen (2023). Structural priming demonstrates abstract grammatical representations in multilingual language models. Long paper, Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP). Singapore. *equal contribution

2. **Catherine Arnett** (2019). Pathways of Change in Romance Motion Events: A Corpus-based Comparison. *Proceedings of the Thirtieth Western Conference on Linguistics (WeCOL)*. Vol 23. Fresno, CA.

Manuscripts

1. Tyler A. Chang, **Catherine Arnett**, Zhuowen Tu, Benjamin K. Bergen (under review). When Is Multilinguality a Curse? Language Modeling for 250 High- and Low-Resource Languages. arXiv preprint arXiv:2311.09205.

Conference Presentations

1. **Catherine Arnett**, Tyler A. Chang, James A. Michaelov, and Benjamin K. Bergen (2023) Crosslingual Structural Priming and the Pre-Training Dynamics of Bilingual Language Models. *The 3rd Workshop on Multilingual Representation Learning co-located with EMNLP 2023*. Singapore.

2. **Catherine Arnett** & Maho Takahashi (2022). Creating a Baseline to Evaluate Correlations Between Language and Environment. *Machine Learning and the Evolution of Language*. Kanagawa/online. [abstract] [poster pdf]

3. **Catherine Arnett** & Eva Wittenberg (2020). Multiple Meanings of Doubling Up: Mandarin Verbal Reduplication. *The 26th Architectures And Mechanisms for Language Processing Conference* (AMLaP). Potsdam/online. [poster pdf]

4. **Catherine Arnett** & Eva Wittenberg (2020). Conceptual Effects of Verbal Reduplication in Mandarin Chinese. *North American Conference on Chinese Linguistics 32*. Storrs, CT/online.

5. **Catherine Arnett** & Eva Wittenberg (2019). Conceptual Effects of Verbal Reduplication in Mandarin Chinese. California Meeting on Psycholinguistics. Santa Cruz, California. [poster pdf]

6. **Catherine Arnett** (2018). Diachronic study of the typology of motion verbs in the Romance languages. Undergraduate Linguistics Association of Britain Conference, University of Edinburgh.

Invited Talks

Writing Systems. LIGN 101: Introduction to the Study of Language   Fall 2020

Media and Outreach

Interview   Jan 2024
Code and Community: Computational Social Science Program Addresses Social Questions with Data

Author and Subject-Matter Expert,   Sep 2022
Cognitive Foundations, an open Textbook
Update and rewrite portions of the *Language* chapter using bookdown in R.

Scholarships, Fellowships, and Grants

Yankelovich Graduate Research Funding, UC San Diego, $3,500	2024
GPSA Travel Grant Award, UC San Diego, $300	2023
Linguistics Department Anti-Racist Pedagogy Micro-Fellowship, UC San Diego Linguistics, $500	2023
Summer Graduate Teaching Scholar, UC San Diego, $1,000	2023
LaVerne Noyes Foundation Endowed Fellowship, UC San Diego, $6,000	2022
Academic Senate Grant, UC San Diego, $9,000	2022
Friends of the International Center Fellowship, UC San Diego, $2000	2020
Research and Travel Grant, UC San Diego Linguistics, $350	2019
GPSA Travel Grant Award, UC San Diego, $500	2019
Student Opportunity Fund, University of Edinburgh, £250	2018
Eric Liddell China Saltire Scholarship, University of Edinburgh, £5,000	2016
St. Andrews Society of North Carolina Scholarship, $37,000	2014-2018

Certifications

Citi Program Social and Behavioral Research Best Practices for Clinical Research	2019-2022
HSK 5 Certification	2017

Skills and Languages

Languages

English - Native
Mandarin - Fluent
Spanish - Fluent
French - Conversational
Latin - Structural Knowledge
San Juan Piñas Mixtec - Fieldwork Experience

Coding and Software

R/RStudio tidyverse, lme4, bookdown
Python pandas, matplotlib, seaborn, numpy, BeautifulSoup
basic SQL, basic HTML
Software Google Suite, Microsoft Office Suite, Adobe CC, Slack, Zoom, GitHub

Interests

Natural language processing, psycholinguistics, corpus work, morphology

Academic Service

Reviewing

Undergraduate Linguistics Association of Britain   2020

Departmental Service

Linguistics Department Steward	2022-2024
Linguistics Department Graduate Student Writing Club Organizer	2022-2023
Linguistics Department Social Organizer	2021-2023
Linguistics Faculty Growth Planning Committee	2021-2022
Linguistics Department BrownBag Organizer	2020-2021
Linguistics Department Representative, Graduate and Professional Student Association	2019-2020

Mentoring

Masters Students

Adelle Engmann, Computational Social Science	2023-2024
Xinyao Yi, Computational Social Science	2022-2023

Undergraduate Honors Theses

Yuhan Fu, Cognitive Science B.S. Honors Thesis 2024
    "Is There Evidence for Embodied Simulation During Language Translation?"

Undergraduate Research Assistants

Sidney Ma	Winter 2024 -
Gwen O'brien	Winter 2024 -
Nattida Neal	Winter 2024 -
Sarah Yu	Fall 2023 -
Livia Zhou	Fall 2023
Yoyo Wu	Fall 2023
Jiawei Lyu	Spring 2023
Jason Tran	Winter 2023 - Spring 2023
Emily Xu	Fall 2022, Spring 2023 - Fall 2023
Tiffany Wu	Fall 2022 - Winter 2023
Fiona Tang	Fall 2022 - Spring 2023
Jane Yang	Winter 2020 - Spring 2022
Zhiyi Li	Winter 2020 - Winter 2021
Xutong Zhang	Fall 2020 - Winter 2021
Annabelle Chang	Fall 2019 - Winter 2021
Jessica Luo, now Linguistics PhD Student at University of Washington	Fall 2019 - Winter 2021
Ruoqi Wei	Fall 2019 - Winter 2021
Rebecca Xu	Fall 2019 - Winter 2020

Professional Memberships

Association for Computational Linguistics 2023