# Mathew A. Kramer

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#### **Education**

**University of Chicago** 

**University of Michigan** Ann Arbor MI

M.A., LINGUISTICS

B.S., COMPUTER SCIENCE AND B.A., LINGUISTICS

## Research Experience \_\_\_\_\_

For a detailed list of presentations and publications, please refer to my CV.

**University of Michigan** Ann Arbor, MI

**GRADUATE STUDENT RESEARCHER** • Individually and in teams, developed, led, and participated in multi-stage research projects.

- · Worked with a wide variety of data, including behavioral data, likert ratings, qualitative responses, and demographic surveys.
- Used RStudio and Pandas to manipulate data, produce visualizations, and run statistical analyses, including Bayesian models.
- · Presented summaries of research in written, poster and presentation format to audiences with varying levels of familiarity.
- Published single-author and co-authored papers on a variety of topics.

#### LAB MEMBER, CONTACT, COGNITION, AND CHANGE LAB

2018 - 2022

2018 - 2022

2022

Chicago, IL

- Developed methodology for and ran web-based eye-tracking experiments.
- · Visualized and analyzed various datasets, including eye-tracking data, likert scale responses, and demographic data.
- Trained faculty and students in use of web-based experimental pipeline.

**University of Chicago** Chicago, IL

LAB MANAGER/RESEARCH SPECIALIST

2015 - 2018

- Developed and deployed web-based experiments via HTML, CSS, and JavaScript.
- · Developed and documented a system for hosting and running web-based experiments, replacing outdated tools.
- Trained students and faculty in the use of these systems.

# Projects \_\_\_\_\_

#### $\pmb{\textbf{LingTube} \$ \text{https://github.com/Narquelion/LingTube}}$

PROJECT MANAGER AND LEAD AUTHOR

LEAD DEVELOPER 2019-2022

- Developed an open-source suite of Python tools for downloading and processing YouTube captions for syntactic analysis.
- Trained researchers in using pipeline for their own projects.
- · Presented and published results of pipeline-based research in computational and non-computational venues.

#### Dependency locality and its correlates in writing and speech % https://osf.io/nez36/

PRINCIPAL INVESTIGATOR 2019-2021

- Constructed a dataset of 7 languages using the LingTube pipeline.
- · Utilized Python and R to extract and clean relevant data; visualized data and conducted regression analyses via R.

#### Getting to know them: How familiarity impacts pronoun use % https://osf.io/3c6kx/

2020-present

- Developed set of Qualtrics surveys with experimental and demographic components.
- Ensured best practices for inclusive demographic surveying and participant recruitment.
- Using Python and RStudio, prepared and analyzed quantitative and qualitative data from participants.
- Presented findings and served as lead author on manuscript for publication.

#### Moving past indirect proxies for language experience % https://osf.io/3wys9/

- Assisted in conducting and interpreting cluster analysis of self-report data.
- Conducted Bayesian analysis exploring the fit of different data types and aggregation methods to experimental responses.
- Prepared visualizations and detailed methodology for presentation.

# Teaching \_\_\_\_\_

University of Michigan Ann Arbor, MI

GRADUATE STUDENT INSTRUCTOR, LANGUAGE AND DISCRIMINATION

- · Planned and led hour-long weekly discussions on the relationship between societal attitudes and language.
- · Engaged students from diverse backgrounds in thinking about how their own language use is shaped by and shapes society.
- Presented up-to-date research, including own research, to students from non-linguistic disciplines.

University of Michigan Ann Arbor, MI

GRADUATE STUDENT INSTRUCTOR, LANGUAGE AND HUMAN MIND

Fall 2021

2021 - 2022

- Planned and led hour-long weekly discussions on scientific philosophy and basic linguistic theory.
- · Guided students from a variety of disciplines in applying linguistic insights to their own interests and fields of study.

# Japanese-Language Experience \_

NOTE: Library positions required advanced reading and writing knowledge of Japanese.

#### **Japanese Collection, Joseph Regenstein Library**

Chicago, IL

COPY-CATALOGUING ASSISTANT

Jan. 2017 - Jun. 2017

- Worked independently to import, verify, and update records for new Japanese-language acquisitions.
- · Improved library catalogue by identifying and amending outdated, incorrect, or incomplete records.

Acquisitions Assistant

Aug. 2015 - Aug. 2016

- Worked efficiently to eliminate backlog of Japanese-language acquisitions in need of pre-processing.
- Flagged incorrect records, duplicate items, and discrepancies in invoices.

#### **Freelance Language Tutor**

*Various locations* 2014–2016; 2022–

• Developed curricula for independent students of Japanese, primarily at the introductory level.

• Made use of linguistic training to improve the success of students at various levels in their Japanese coursework.

### Skills

**Languages** R, Python, Javascript, HTML, CSS, MySQL

**Tools** RStudio, Pandas, Git/GitHub