

Aaron Apple

303 Ilchester Avenue – Baltimore MD, 21218
(847) 970-0924 • apple@cogsci.jhu.edu • aaronapple.github.io/

Profile

Recent graduate of the Department of Cognitive Science at Johns Hopkins University with a background in language processing and visual perception research; proven expertise in quantitative analysis and data visualization; demonstrated experience in leading and managing research. Seeking a position in which my curiosity and rigorous approach to solving complex problems can be utilized in the service of applied social science research.

Education

Johns Hopkins University

Masters of Arts in Cognitive Science

Advisors: Drs. Akira Omaki, Kyle Rawlins & Geraldine Legendre

Baltimore, MD

Aug. 2015 - Aug. 2016

Linguistics Society of America

Graduate of the 2015 LSA Summer Institute at the University of Chicago

Chicago, IL

Jul. 2015 - Aug. 2015

New York University

Bachelors of Arts in Language and Mind, Minor in Creative Writing

New York, NY

Aug. 2008 - Dec. 2012

Skills

Research: Experimental design; Quantitative analysis; Data visualization; Scientific writing; Public speaking; Data management; Research coordination; Grant editing; Eye tracking; Corpus linguistics

Programming: R (advanced); Python (proficient); MATLAB (proficient); HTML (familiar); JavaScript (familiar)

Graphic Design: Vector illustration (Adobe Illustrator); Vector animation (Anime Studio Pro)

Software: Google Docs & Sheets; Microsoft Office Suite; Adobe Creative Cloud; FileMaker Pro; Audacity; Ableton Live; SR Research Experiment Builder & Data Viewer

Statistical Methods: ANOVA; Mixed-effects regression; Bayesian inference; Neural networks

Languages: English (native); French (proficient)

Professional Experience

Manager of the Language Processing and Development Lab

PI: Dr. Akira Omaki, Department of Cognitive Science, The Johns Hopkins University

Baltimore, MD

Jan. 2013 - Jul. 2015

- Team leader and designer for 2 experiments on child and adult linguistic and visual processing.
- Developed and maintained pipelines to manage, analyze, and visualize data for 12 experiments.
- Supervised 5 research assistants on 4 research projects.
- Designed visual and linguistic stimuli for 6 experiments.
- Wrote 5 articles submitted to peer-reviewed journals and presented findings at 2 conferences.
- Conducted literature reviews for 7 experiments.
- Managed 3 IRB protocols.
- Edited NSF grant application for a project on child sentence processing and executive control.
- Wrote, designed, and edited newsletter presenting findings from 8 experiments for laypeople.

Research Assistant in the Davachi Memory Lab

PI: Dr. Lila Davachi, Department of Psychology, New York University

New York, NY

May 2012 - Dec. 2012

- Assisted in designing and coding MEG experiment on memory reactivation.
- Managed participant recruitment and data collection for 2 fMRI experiments.

Research Assistant in the Consciousness and Computation Lab

PI: Dr. Hakwan Lau, Department of Psychology, Columbia University

New York, NY

May 2012 - Dec. 2012

- Designed and coded behavioral experiment on dynamic control of memory and attention.
- Managed participant recruitment and data collection for 3 behavioral experiments.

Research Assistant in the Neurolinguistics Lab

PI: Dr. Liina Pykkänen, Department of Linguistics, New York University

- Designed and coded MEG experiment on domain generality of semantic processing.

New York, NY

Sept. 2011 - April 2012

Editorial Intern at DVL Seigenthaler Public Relations Agency

- Wrote 12 press releases for 3 business clients.
- Copy edited press releases and outreach magazines for 2 philanthropic clients.

Chicago, IL

Aug. 2010 - Dec. 2010

Intern at 826CHI

- Administered the after-school tutoring program of 30 children and tutors.
- Taught writing as a teaching assistant in 2 English classes in a Chicago public high school.

Chicago, IL

Aug. 2010 - Dec. 2010

Research Assistant for Syntactic Structures of The Worlds Languages

PI: Dr. Chris Collins, Department of Linguistics, New York University

- Developed program to visualize syntactic and phylogenetic relationships between languages.

New York, NY

Jan. 2009 - June 2009

Publications, Presentations and Awards

Atkinson, E., **Apple, A.**, Omaki, A. (2016). Similarity of Wh-Phrases and Acceptability Variation in Wh-Islands. *Frontiers in Psychology*, 6.

Omaki, A, Lau, E . F., Davidson White, I., Dakan, M., **Apple, A.**, & Phillips, C. (2015). Hyper-active gap filling. *Frontiers in Psychology*, 6.

Apple, A. & Omaki, A. (2015). Incrementality and garden-path recovery in children's resolution of direct object vs. sentential complement ambiguity. Paper presented at the *Boston University Conference on Language Development*, November 13, 2015.

Apple, A. & Omaki, A. (2015). Development of sentential complement ambiguity processing. Poster presented at the *CUNY 2015 Conference on Sentence Processing*, March 21.

Omaki, A. & **Apple, A.** (2014). Adaptation of active gap filling in coordinated sentences. Talk presented at the *AMLaP 2014*, September 4.

Apple, A., Bemis, D., Marcus, G., Pykkänen, L. (2012). Domain General Compositional Processing: An MEG Study. *Dean's Undergraduate Research Fund*, NYU. Poster presented at the Dean's Undergraduate Research conference and grant recipient of the highest award, \$1000.

Apple, A., Omaki, A. (In preparation). The role of incremental parsing on Japanese infants' word learning.

Apple, A., Omaki, A. (In preparation). Japanese infants' abstract knowledge of word order.

Apple, A., Omaki, A. (In preparation). Filler-gap processing in coordinate structures.

Apple, A., Omaki, A. (In preparation). Incrementality and garden-path recovery in child resolution of complement ambiguity.

Volunteering

Harwood Community Association

Volunteer and organizer

Baltimore, MD

Jul. 2015 - Aug. 2016

- **Harwood's 2016 National Night Out Against Crime:** Solicited food donations from local businesses, ran the BBQ grill, and assisted in managing other volunteers.
- **The 2015 Ilchester Back to School Block Party:** Solicited school supplies donations from local businesses and assisted in managing other volunteers.