# Aaron Apple

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## 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**                                                                              **Baltimore, MD**
*Masters of Arts in Cognitive Science*                                                              *Aug. 2015 - Aug. 2016*
Advisors: Drs. Akira Omaki, Kyle Rawlins & Geraldine Legendre

**Linguistics Society of America**                                                                          **Chicago, IL**
*Graduate of the 2015 LSA Summer Institute at the University of Chicago*             *Jul. 2015 - Aug. 2015*

**New York University**                                                                                      **New York, NY**
*Bachelors of Arts in Language and Mind, Minor in Creative Writing*                   *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**                             **Baltimore, MD**
*PI: Dr. Akira Omaki, Department of Cognitive Science, The Johns Hopkins University*      *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**                                             **New York, NY**
*PI: Dr. Lila Davachi, Department of Psychology, New York University*                   *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**                       **New York, NY**
*PI: Dr. Hakwan Lau, Department of Psychology, Columbia University*                   *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**                                New York, NY
*PI: Dr. Liina Pylkkänen, Department of Linguistics, New York University*         *Sept. 2011 - April 2012*
- Designed and coded MEG experiment on domain generality of semantic processing.

**Editorial Intern at DVL Seigenthaler Public Relations Agency**                  Chicago, IL
- Wrote 12 press releases for 3 business clients.                                 *Aug. 2010 - Dec. 2010*
- Copy edited press releases and outreach magazines for 2 philanthropic clients.

**Intern at 826CHI**                                                              Chicago, IL
- Administered the after-school tutoring program of 30 children and tutors.       *Aug. 2010 - Dec. 2010*
- Taught writing as a teaching assistant in 2 English classes in a Chicago public high school.

**Research Assistant for Syntactic Structures of The Worlds Languages**           New York, NY
*PI: Dr. Chris Collins, Department of Linguistics, New York University*           *Jan. 2009 - June 2009*
- Developed program to visualize syntactic and phylogenetic relationships between languages.

## 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., Pylkkänen, 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**                                                 Baltimore, MD
*Volunteer and organizer*                                                        *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.