Aaron Apple

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Profile

Recent graduate of the Department of Cognitive Science at Johns Hopkins University, with expertise in human development and linguistics, data analysis, and visualization, with 4+ years of experience in research coordination, looking to apply my diverse research skills to problems in the applied social sciences.

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; Grant editing; Data management; Research coordination

Programming languages: R; Python; MATLAB

Software: Microsoft Office; Adobe Creative Cloud; SPSS; Tableau; FileMaker Pro; Audacity; SR Research Experiment Builder & Data Viewer

Statistical & Experimental Methods: ANOVA; Mixed-effects regression; Bayesian inference; Neural networks; Question answering; Preferential looking; Visual-world eye-tracking; Eye-tracking during reading; Self-paced reading

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*
- Developed pipelines to manage, analyze, and visualize data for 12 experiments.
- Designed two experiments on child and adult language processing.
- Wrote five articles submitted to peer-reviewed journals.
- Presented my findings at two conferences.
- Edited NSF grant application for a project on child sentence processing and executive control.
- Managed IRB protocols.
- Supervised five research assistants on four research projects.
- Conducted literature reviews for 7 experiments.
- 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 two 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 three 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 PR   **Chicago, IL**
- Wrote twelve press releases for three business clients.   *Aug. 2010 - Dec. 2010*
- Copy edited press releases and outreach magazines for two philanthropic clients.

Intern at 826CHI   **Chicago, IL**
- Administrated the after-school tutoring program of 30 children and tutors. *Aug. 2010 - Dec. 2010*
- Taught writing as a teaching assistant in two 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 featural 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.