Kari L. Green

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Summary

A senior at the University of Michigan studying computer science engineering who thrives in a challenging, problem solving environment. Demonstrated ability to work on complex and interdisciplinary problems and produce high quality, efficient solutions.

Languages: Python, C/C++, C#, SQL, Java, R, MATLAB

Education

Bachelor's Degree, Computer Science Engineering
Cumulative GPA: 3.5
University of Michigan December 2017 (Expected)

- Dean's List April 2014 – April 2017
- Tutored other students in introductory/intermediate coding classes
- Relevant coursework: Web Database and Information Systems, Database Management, Data Structures and Algorithms, Information Retrieval

Professional Experience

Software Implementation Consultant
FAST Enterprises, Springfield, IL May 2016 – July 2016

- Communicated with consumers to identify errors or to develop newly desired functionality in the software. Communicated potential solutions to a non-technical user for evaluation. Implemented and tested the solutions.
- Analyzed current code and updated code for a major software upgrade. Pinpointed potential conflicts with the software upgrade which streamlined the upgrade process and greatly reduced the time to implement the upgrade.

Research Assistant
Kresge Hearing Research Institute, Ann Arbor, MI 2010 - Current

- Designed and implemented a project which determined if higher blood levels of antioxidants would reduce the hearing loss in genetically modified mice that model the most common form of genetic human deafness. I administered a diet high in antioxidants to pregnant mice and then the pups were given the diet and subsequently monitored for hearing loss. There was a 15 dB improvement in the hearing of these mice in comparison to controls. This is directly translatable to humans with the same genetic defect.
- Improved data analysis by writing scripts (using R) that would automatically provide ANOVAs and T-Tests as needed. The lab now uses these scripts extensively to analyze the data.
- Interpreted auditory brainstem recordings using Python scripts
- Worked on many interdisciplinary projects with up to 7 different specialists. Collaborated with the individual team members to develop many top-tier publications.

Extracurricular Experience

Triathlete
University of Michigan Triathlon Team, Ann Arbor, MI 2014 – Current

- Qualified for and competed in the triathlete national championships (2014 - 2016)

Scientific Publications
Green CN, Driver LE, Bohm LA, Green GE. (2012) "Speech development in previously aphonic children after airway reconstruction recapitulates evolution of spoken language." In: Scott-Philips TC, Tamariz M, Cartmill EA, Hurford JR, editors. Evolution of Language. Singapore: World Scientific Publishing; p.158-164.

Green CN. (2014) "FOXP2 mediates operant self-learning necessary for language development" The Past, Present and Future of Language Evolution Research. p. 58

Green CN, Green GE. (2014) "Language Development in Children with Laryngeal Abnormalities Identifies Prerequisites for Verbal Protolanguage." In: Hackensack NJ and London. Eds. The Evolution of Language. Singapore: World Scientific Publishing.

Green KL, Swiderski DL, Prieskorn DM, DeRemer SJ, Beyer LA, Miller JM, Green GE, & Raphael Y. (2016) "ACEMg diet supplement modifies progression of hereditary deafness" Nature Scientific Reports.

Lee MY, Hackelberg S, Green KL, Lunghamer KG, Kurioka T, Loomis B, Swiderski DL, Duncan RK, & Raphael Y. (2017) "Survival of human embryonic stem cells implanted in the guinea pig auditory epithelium" Nature Scientific Reports.

Scientific Presentations
Green CN. Speech development in previously aphonic children after airway reconstruction recapitulates evolution of spoken language. Evolang, Kyoto, Japan. (2012).

Green CN. Language development in children with laryngeal abnormalities identifies prerequisites for verbal protolanguage. Evolang, Vienna, Austria. (2014).

Green KL. Treatment of Cx26 Hereditary Deafness. Lawrence Hawkins Lectures, Ann Arbor, MI. (2014).

Lee MY, Hackelberg S, Green KL, Lunghamer KG, Kurioka T, Duncan RK, & Raphael Y. "Transplanted human H9-GFP stem cells survive in scala media of conditioned guinea pig cochlea" ARO, San Diego, CA (2016).

Awards
Evolang Student Research Presentation: 50,000 Yen. Kyoto, Japan. (2012).