

JENNIFER ROSE HILL

Ph.D. with a focus on educational technology and learning science

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PROFESSIONAL EXPERIENCE

Educational Technology Consultant (Freelance)

The Save the Children Fund

📅 August 2018 – September 2018 📍 Washington, D.C.

- Drafted software requirements specifications and created high fidelity mock-ups for a digital toolkit app for field workers and directors of **Child Friendly Spaces**.
– Contact: Sarita Fritzler
- Researched innovative applications of educational technology in developing country contexts (ICT4D) and wrote reports on ways to support Save the Children’s international and US education programs through technology
– Contact: John Zoltner

R&D lead, founder: Learning Technologies Research group

The George Washington University

📅 May 2013 – January 2018 📍 Washington, D.C.

- Created and served as lead designer, developer, and manager of the **CAPITAL** adult literacy learning application and **REMind** learning management system
- Conducted extensive research on literacy acquisition, mobile learning, and software design paradigms for under-served communities and users with limited digital literacy
- Developed and analyzed novel algorithms for automatically generating foundational literacy learning materials from an existing curriculum
- Worked with instructors at adult literacy organizations to determine their needs for educational tools and piloted them with students in various classrooms

Data Management Center developer (Intern)

The George Washington University

📅 September 2017 – January 2018 📍 Ashburn, VA

- Made significant modifications to the Data Management Center’s internal software tool to improve usability and responsiveness
- Leveraged RESTful APIs to build missing features of internal tool and help move product closer to production

PERSONAL PROJECTS

MetroHero - dcmetrohero.com

App that uniquely visualizes the state of DC Metro in real time

- Co-creator / co-designer / UX consultant
- Wireframing and prototyping front-end designs; creating data visualizations; developing heuristic algorithms for filtering, edge-case detection, and unique metric derivation

Is Metro On Fire? - ismetroofire.com

Website for reporting current fire activity at metro stations

- Front-end designer/developer
- Developed algorithms for determining when active fires are occurring and when to report on them with confidence

EDUCATION

Doctor of Philosophy - Computer Science

The George Washington University

📅 August 2012 - January 2018

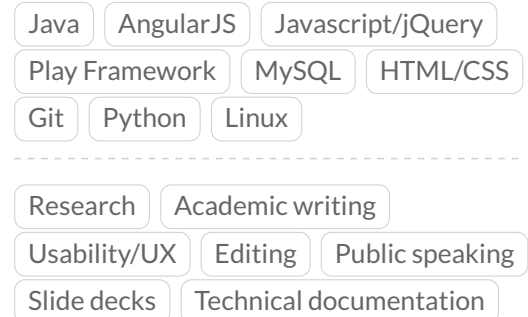
Areas of Focus: Educational technology, adult literacy, automatic question generation, human-computer interaction

Bachelor of Science - Computer Science

Hood College

📅 August 2008 – May 2012

SKILLS



AWARDS

🏆 2nd Place: SEAS Research & Development Showcase 2016

Automatic Generation of Context-Based Fill-in-the-Blank Exercises Using Vector Space Models and Google n-grams

🏆 Provost’s Graduate Research Fellowship recipient 2012-2017

PUBLICATIONS

Doctoral Thesis

- Hill, Jennifer (2018). “Algorithmic Generation and Mobile Distribution of Phonetic, Orthographic, and Inference-Based Literacy Exercises for Adult Learners”. PhD thesis. The George Washington University.

Journal Articles

- Hill, Jennifer, W. Randolph Ford, and Ingrid G. Farreras (2015). “Real conversations with artificial intelligence: A comparison between human–human online conversations and human–chatbot conversations”. In: *Computers in Human Behavior* 49, pp. 245–250.

Conference Proceedings

- Hill, Jennifer and Rahul Simha (2016a). “Automatic Generation of Context-Based Fill-in-the-Blank Exercises Using Co-occurrence Likelihoods and Google n-grams”. In: *Proceedings of the 11th Workshop on Innovative Use of NLP for Building Educational Applications*, pp. 23–30.
- – (2016b). “Designing a Literacy-Based Mobile Application for Adult Learners”. In: *Proceedings of the 34th Annual ACM Conference on Human Factors in Computing Systems*, pp. 3076–3083.

ACADEMIC ADVISOR

Prof. Rahul Simha

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