**Nicole Lehrer** nicole.lehrer@gmail.com | nicolelehrer.com | Github.com/nicolelehrer | Linkedin.com/in/nlehrer Participant at the Recurse Center May 2015 -Relevant X-Code command line tools in Objective-C - practiced parsing user input and Aug 2015 experience calling APIs from the terminal. Graph visualization in Swift - Draws a graph, lets the user select start and end nodes, and animates the resulting path found based on a breadth first search. • Palette picker - User can enter an artist's name to search for a sample artwork, which is analyzed to draw a color histogram. The histogram provides a color palette with which the user can draw. • SocketTacToe (in development) - IOS app in Swift that uses Socket.IO to create a multiplayer Tic-Tac-Toe game. Jan 2014 -Developer for Aural Analytics on mobile app for speech therapy May 2015 Worked with engineering and therapy leads to conceptualize IOS apps for remote speech therapy between therapist and patient • Implemented front end in Objective-C Therapist application placed in the finalist round of the 2014 Vodafone Wireless Innovation Competition Aug 2008 -Developer and graduate researcher on a mobile app for monitoring Dec 2014 progress in physical therapy Conceptualized and implemented an IOS application for physical therapists to capture, edit, annotate and organize videos of patient movement Implemented full application in Objective-C Used by 2 physical therapists during 6 mo. multi-site clinical study Aug 2008 -Developer and graduate researcher on interactive feedback for upper Dec 2014 extremity stroke therapy Conceptualized and implemented Mac OS application plug-ins for generative visual feedback mapped to movement data from stroke survivors Implemented in Objective-C and OpenGL • Plug-ins used in a 24 mo. clinical study with 10 stroke survivors and a 6 mo. multi-site clinical study with 8 stroke survivors **Skills** Objective-C, Swift, X-Code, Mac OS, IOS, Git & GitHub, Bash, Matlab Photoshop, Illustrator, Final Cut Education Ph.D. in Media Arts and Sciences School of Arts, Media and Engineering at Arizona State University Aug 2008 -Dissertation: Applied Interdisciplinary Concepts for Designing Visual Media Dec 2014 Within Interactive Neurorehabilitation Systems Bachelor of Science in Engineering in Biomedical Engineering Aug 2003 -School of Engineering at Tulane University May 2008 Bachelor of Fine Arts in Painting School of Liberal Arts and Sciences at Tulane University • National Science Foundation Integrative Graduate Education Research Aug 2010 -**Scholarships** Traineeship (NSF-IGERT) Fellowship for graduate study at Arizona State July 2013 & Fellowships University • Science Foundation of Arizona Research Fellow for graduate study at Aug 2008 -

• Dean's Honor Scholarship for full tuition for undergraduate study at School

Arizona State University

of Engineering, Tulane University

July 2010

Aug 2003 -

May 2007