

## Nicole Lehrer

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### Relevant experience

#### ***Participant at the Recurse Center***

- Artlette for iPad (available in the app store) in Swift and Objective-C: Draw with color palettes from famous artworks, searchable by the Artsy API. Color palettes can be saved and shared on Adobe Creative Cloud (update pending approval)
- SocketTicTacToe in Objective-C and Swift: Uses Socket.IO and a node server to create a multiplayer Tic-Tac-Toe game.
- Graph visualization in Swift: Draws a graph and lets the user select start and end nodes to animate resulting path found based on a breadth first search.

May 2015 -  
Aug 2015

#### ***Developer for Aural Analytics on mobile app for speech therapy***

- 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

Jan 2014 -  
May 2015

#### ***Developer and graduate researcher on a mobile app for monitoring 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 -  
Dec 2014

#### ***Developer and graduate researcher on interactive feedback for upper 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

Aug 2008 -  
Dec 2014

### Skills

Swift, Objective-C, X-Code, IOS, MacOS, 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*

**Dissertation:** Applied Interdisciplinary Concepts for Designing Visual Media Within Interactive Neurorehabilitation Systems

Aug 2008 -  
Dec 2014

#### ***Bachelor of Science in Engineering in Biomedical Engineering***

*School of Engineering at Tulane University*

#### ***Bachelor of Fine Arts in Painting***

*School of Liberal Arts and Sciences at Tulane University*

Aug 2003 -  
May 2008

### Scholarships & Fellowships

- National Science Foundation Integrative Graduate Education Research Traineeship (NSF-IGERT) Fellowship for graduate study at Arizona State University
- Science Foundation of Arizona Research Fellow for graduate study at Arizona State University
- Dean's Honor Scholarship for full tuition for undergraduate study at School of Engineering, Tulane University

Aug 2010 -  
July 2013

Aug 2008 -  
July 2010

Aug 2003 -  
May 2007