

## Selected Experience

### Senior iOS Engineer | **Sum**

August 2014 – Present. New York, NY

- Worked on building the companion iOS app for the Sum band. Projects included:
  - Building an extensive open-source library for creating interactive charts.
  - Architecting large parts a complex app using MVVM and ReactiveCocoa.
  - Working closely with the design team to prototype interactions and animations.
  - Designing APIs and writing specs in RAML.

### Software Engineer | **Venmo**

June 2013 – August 2014. New York, NY

- Worked on all aspects of the iOS app and iOS SDK. Projects included:
  - Implementing extensive design updates for iOS7.
  - Adding unit and integration tests to a legacy iOS codebase (Expecta, Mockito, KIF)
  - Refactoring and open-sourcing the networking layer used in the iOS app and SDK.

### Research Data Associate | **NYU School of Medicine**

September 2010 – August 2011 | New York, NY

- Contributed to various projects in the Laboratory for Translational Audio Research, including:
  - Implementing custom psychoacoustics software to obtain pitch perception and speech-in-noise measures with cochlear implant users
  - Developing and testing a new fitting system prototype for cochlear implant users.

## Education

Harvard University | BA in Neurobiology, secondary in Computer Science

May 2013. Cambridge MA

## Publications

Donnelly, P.J., Guo, B.Z., and Limb, C.J. "Perceptual fusion of polyphonic pitch in cochlear implant users," Journal of the Acoustical Society of America. Vol.126: EL 128-EL 133 (2009)

Tan, C.T., Guo, B.Z., and Selesnick, I. Resonance-based decomposition for the manipulation of acoustic cues in speech. 2011 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics. (2011)

Tan, C.T., Guo B., Martin B., and Svirky, M. Behavioral and physiological measure for pitch matching between electrical and acoustical stimulation in cochlear implant patients. J. Acoust. Soc. Am. Vol. 131: 3388 (2012)

## Skills

iOS and OSX: Objective-C, Swift, C, CoreData, ReactiveCocoa, MVVM

Misc: Python, Ruby, Scala, C++, Javascript, Matlab, Max/MSP