

Nathan Apple

Human Neuroimaging Lab, S104
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Expertise Software design and development, specializing in client/server applications.

Experience Scientific Programmer
2001 – present, Baylor College of Medicine, Houston, TX

- Prototyped software to enable Hyperscanning: simultaneous fMRI during linked social interactions (Java, sockets)
- Designed and implemented a client to view experiments in progress and replay past experiments (Java, SWT, Jython)
- Designed and implemented generic server architecture for executing Hyperscanning experiments defined in Jython scripts (Java, sockets, Jython)
- Designed and implemented client systems to present stimuli and record input for Hyperscanning experiments (Java, Swing, SWT)
- Authored numerous scripts for use in fMRI experiments (Jython, Python)
- Designed and implemented a self contained client application to emulate the entire Hyperscanning system to aid in testing experiment scripts (Java, SWT)

Software Developer
2000 – 2001 Quaadros Technologies, Inc, Houston, TX

- Participated in design and implementation of LinkNotes and VoiceFlyer web presentation software products, as well as the NetRooms networked data server (Java, applets, Swing, AWT)
- Participated in design and implementation of Spotlight, an email-like communication application utilizing LinkNotes (Java, Swing)

Education The University of Texas at Austin
1996-2000

- BS, Computer Science
- Minor in Mathematics

Publications PR Montague, GS Berns, JD Cohen, SM McClure, G Pagnoni, M Dhamala, MC Wiest, I Karpov, RD King, N Apple, RE Fisher (2002) Hyperscanning: Simultaneous fMRI during linked social interactions. *Neuroimage* 16(4): 1159-1164.