Zachary Ingbretsen

382 N. Main St., West Lebanon, NH 03784 • zach@zingbretsen.com • (631) 987 - 1475
https://www.linkedin.com/in/zingbretsen

EDUCATION

Dartmouth College, Hanover, NH   **June 2011**
Bachelor of Arts: Major in Neuroscience with Honors   **GPA: 3.49/4.0**
Relevant Courses: Discrete Mathematics, Intro to Computational Neuroscience, Intro
to Computer Science

RELATED EXPERIENCE

Social Cognitive and Neural Sciences Lab, Dartmouth College, Hanover, NH   **July 2012-**
Lab Manager/Software Development Assistant   **Present**

- Designing and building webMT in JavaScript/PHP, a framework to collect mouse-tracking, ratings, and survey data online.
- Developing desktop version of MouseTracker:
    - Proposed and developed UDP interface in VB6 to allow to interact with other applications locally or over a network
    - Improving algorithms for calculating trajectory metrics
    - Designing automatic-exclusion algorithm for bad trials
    - Bug fixes
- Writing/maintaining scripts to automate data processing using Python, Matlab, and VBA in Excel that have saved days of manual work.

Norris Social Neuroscience Lab, Dartmouth College, Hanover, NH   **July 2011 –**
Position Title   **June 2012**

- Wrote Python scripts to process AFNI output files (fMRI data) and convert them to a form usable in SPSS.
- Programmed experiments in e-Prime for fMRI, EEG, EMG, and behavioral studies. Experiments included a dot-probe paradigm, finger imitation, and event -related brand recognition designs (using video clips), which required inline coding in E-Basic.
- Configured fMRI eyetracker for use in experiment (which required several systems to work together), and wrote scripts to process the data in Matlab.

ADDITIONAL EXPERIENCE

Merchant Mechanics, West Lebanon, NH   **April 2012 –**
Senior Consultant for Integrated Research   **Present**

- Coding experiments and data processing scripts (e.g., to link EEG and eye-tracking data)
- Training staff on best practices in psycho-physiological research.

COMPUTER SKILLS

Languages:
- Proficient in: JavaScript/jQuery, CSS, HTML, Python (2/3), Matlab
- Familiar with: Visual Basic 6, Visual Basic for Applications, e-Basic, PHP, Java, bash, SQL, R, AutoHotKey

Software:
- Vim, Matlab, TortoiseSVN, Microsoft Excel, VirtualBox, WAMP, Eclipse

Platforms:
- Microsoft Windows (XP, Vista, 7), Linux (Mint, Ubuntu, Fedora), Unix