

Bob Spunt, Ph.D.

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I use science and technology to understand human behavior and experience

Education

Ph.D., Social Psychology, University of California, Los Angeles 2005-2011
B.A., Psychology & Rhetoric, University of California, Berkeley 1999-2003

Work Experience

Data Scientist, Snap Inc., Seattle, WA 2017-Present

- Contracted role working with research, data science, and product teams to drive strategic decisions using data
- Developed hierarchical coding schemes for describing qualitative product reviews
 - Python software automating natural language processing and frequency analytics on such responses
- Performed predictive analytics on large log datasets to identify factors affecting product engagement and retention
 - wrote complex SQL queries joining and aggregating data distributed across Google BigQuery tables with billions of rows; developed Python software for programmatic execution of those queries using BigQuery API
 - conducted descriptive and predictive analytics on resulting dataset using Python data science stack
 - communicated methods and findings to relevant teams and leadership to support strategic decision-making

Scientific Software Developer, Freelance, Multiple Locations 2011-Present

- **Developed Automated Test Grading Software for CollegeSpring Inc. (2014-2015)**: developed application for automated SAT test scoring and data reporting; workflow processes; and end-user support
- **Open-Source Scientific Software Developer (2012-2017)**: Maintain 30+ GitHub repositories containing open-source software for designing experiments and analyzing data from psychology/neuroscience research

Postdoctoral Scientist, California Institute of Technology, Pasadena, CA 2012-2017

- Conducted basic scientific research testing theories of human social and emotional behavior using advanced experimental methods from psychology and neuroscience, including functional magnetic resonance imaging (fMRI), personality and mood assessment, and performance-based testing
- extensive experience with both qualitative and quantitative data sources collected on diverse populations including healthy adults, high-functioning adults with autism, and patients with focal brain damage
- Authored 10+ peer-reviewed papers in prestigious scientific journals including *Nature Reviews Neuroscience*, *Proceedings of the National Academy of Science*, and *Psychological Science*

Postdoctoral Scientist, UCLA, Los Angeles, CA 2011-2012

- Completed a large research study on the neural bases of subjective emotional experience in healthy adults
- Presented research at multiple scientific meetings and published in the *Journal of Cognitive Neuroscience*

Core Skills

Research Psychometrics, Experimental Design, Valid Psychological & Physiological Measurement, Brain Imaging (fMRI), Image/Timeseries Analysis, Natural Language Processing

Computing Python, MATLAB, SQL, R, Shell, Git