

Bethany Hung

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EDUCATION

Brown University, B.Sc. Candidate in Cognitive Neuroscience

Expected May 2019

- GPA: 4.0/4.0
- Coursework in 2nd-year neuroscience (neural systems), cognitive neuroscience, visual perception, psychology-oriented statistics, human physiology, biochemistry, organic chemistry, general chemistry, physics (mechanics and E&M)

EXPERIENCE

Perception, Action, & Cognition Lab at Brown University — *Undergraduate Student Researcher*

February 2017-Present

- Works with PI Joo-Hyun Song
- Designing control task for combining EEG with 2D trajectory reach tasks
- Areas of focus: steady-state visually evoked potential (SSVEP) frequency tagging, visual spatial attention, perceptual crowding
- Runs subjects on a 32-channel Easy Cap EEG system & writes MATLAB scripts for data analysis

3D Shape Lab at Brown University — *Undergraduate Student Researcher*

September 2015-Present

- Works with PI Fulvio Domini
- Assists in designing novel psychophysical tasks and stimuli to examine human depth perception
- Runs human participants through psychophysical and virtual reality experiments; have run over 100 to date
- Conducting independent study on the intersection of visual crowding and the Ebbinghaus illusion
- Authoring a paper on 3D visual cue combination

Stanford Vision and Neuro-Development Lab — *Undergraduate Student Researcher*

June 2016-August 2016

- Worked with PI Anthony Norcia
- Designed psychophysical EEG paradigms to assess perceptual bistability (how the same stimulus can give rise to different perceptions) & coherent motion perception
- Wrote MATLAB scripts to process psychophysical and EEG data, featuring customized psychometric functions
- Ran subjects on a 128-channel EGI EEG apparatus

Phage Hunters (HHMI SEA-PHAGES) at Brown University — *Student*

September 2015-May 2016

- Used aseptic technique in wet lab to isolate a novel bacteriophage virus from self-collected soil samples
- Developed proficiency in several analytical techniques, including restriction enzyme digest arrays, gel electrophoresis, and PCR
- Digitally annotated/verified a phage DNA transcript and prepared it for publishing

Young Scholars Program at UC Davis — *Summer Research Intern*

June 2014-August 2014

- Worked with PI Dr. Arne Ekstrom in the UC Davis Center For Neuroscience
- Studied the spatial and auditory components of episodic memory with a virtual reality paradigm

LEADERSHIP

Hack@Brown — *Media Team Lead*

August 2016-Present

- Maintains all email and social media presence for Brown's annual hackathon, where 500 participants code for 24 hours
- Serves as the interface between organization and public, with two other team members

NARAL Pro-Choice Brown University — *Communications Manager*

October 2016-Present

- Designs all visual content (e.g. poster campaigns) and maintains social media presence
- Assisted with authoring Brown's first Bill of Reproductive Rights

PROJECTS

Dataview

November 2016

- A Markdown dialect that allows web authors to provide equations and models for any calculations and allows readers to test alternate input values; designed to increase transparency and accountability of authors, easing author-reader trust
- Designed visual identity; served as front-end developer for the product site prototype in a team of 3

SKILLS AND KNOWLEDGE

Programming languages: MATLAB, Mathematica, R, HTML/CSS, Python

Digital: Adobe Photoshop, Adobe Illustrator, SPSS, Microsoft Office Suite

Hobbies: nail art, graphic design, & collecting stickers for my water bottle