

# Talie Massachi

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<https://github.com/Shmaltalk>

## Education

**Brown University**, Providence, RI August 2019 – Present  
PhD Student, Computer Science  
Advised by: Jeff Huang

**Brandeis University**, Waltham, MA August 2014 – May 2018  
B.S. Computer Science (High Honors), Psychology  
Minor: Mathematics  
Thesis: [Image Priors for Image Colorization](#)  
Advised by: James Storer

## Publications

[Sochiatrist: Signals of Affect in Messaging Data](#) CSCW 2020 (to appear)  
*Talie Massachi*, Grant Fong, Varun Mathur, Sachin Pendse, Gabriela Hofer, Jessica Fu, Chong Wang, Nikita Ramoji, Nicole Nugent, Megan Ranney, Daniel Dickstein, Michael Arme, Ellie Pavlick, Jeff Huang

[Racing Heart and Sweaty Palms](#) IVA 2017  
Mathieu Chollet, *Talie Massachi*, Stefan Scherer

## Work Experience

**Constructor.io: Software Engineer** Python, C, SQL June 2018 – June 2019

- Implemented Boolean expression simplification algorithm for performant query expansion
- Designed and developed APIs for creating, updating, and retrieving synonym data
- Prototyped system to broaden results for unsuccessful searches through token removal
- Refactored synonym storage to use a relational database

**University of Southern California: Research Assistant** C# June 2016 – August 2016

- Designed and implemented real-time functionality to improve virtual reality system aiming to treat public speaking anxiety
- Developed and ran an experiment with 25 participants to measure the effect of audience response on speaker emotional state

## Projects

**Chime** - Research Project January 2020 – Present  
A social, mood-tracking mobile app that encourages support through emoji-only communication.

**Sochiatrist** - Research Project August 2019 – Present  
A data extractor for social messaging data used to predict signals of mental health. It has been used in clinical studies to extract data, with explicit consent, from over 350 study participants. [Website](#)

**M3AP** Hack @ Brown 2017  
A mandala inspired music visualizer. [Code Demo](#)

**Quilty** Hack Princeton 2016  
A web app that applies texture transfer on user photos. [Code Demo](#)

## Leadership Experience

### Brandeis University

Undergraduate Department Representative, *Computer Science Department* May 2017 – May 2018  
Lead Organizer, *Codestellation (Brandeis Hackathon)* May 2016 – May 2018  
President/Treasurer, *BITMAP (Brandeis Computer Science club)* May 2015 – May 2018

## Teaching Experience

### Brown University

Graduate Teaching Assistant, *User Interfaces and User Experience* August 2020 – Present

### Brandeis University

Teaching Assistant, *Introductory Java and Python* September 2015 – December 2017  
Mentor, *Introductory Computer Programming* September 2016 – December 2016