Talie Massachi

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https://linkedin.com/in/taliem | https://talie.town | https://github.com/Shmaltalk

Research Interests

Building clinical and personal tools to increase the availability of mental health services. Building social support through social media. Personalized affect detection, prediction over private messages.

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 PDF Video   CSCW 2020
Talie Massachi, Grant Fong, Varun Mathur, Sachin Pendse, Gabriela Hoefer, Jessica Fu, Chong Wang, Nikita Ramoji, Nicole Nugent, Megan Ranney, Daniel Dickstein, Michael Armey, Ellie Pavlick, Jeff Huang

Racing Heart and Sweaty Palms PDF   IVA 2017
Mathieu Chollet, *Talie Massachi*, Stefan Scherer

Work Experience

Brown University: PhD Student and Research Assistant   August 2019 – Present
- Manage a team of three students working on research projects focusing on affect detection and emotional disclosure over social media and private messaging
- Collaborate with psychologists and clinical researchers to develop systems to increase the availability of mental health services

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

Research Projects

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

Sochiatrist Website   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.

Service

Brown University
Communications Coordinator, *Graduate Labor Organization (GLO)*   October 2020 – Present
PhD Admit Events Organizer, *Computer Science Department*   February 2020 – March 2020

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 – December 2020

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

Mentoring

Lauren Choi, Brown University undergraduate   January 2020 – Present
John Roy, Brown University undergraduate   January 2020 – Present
Eindra Kyi, Visiting summer research assistant   June 2020 – September 2020
Jordan Idehen, Brown University summer research student   July 2020