JUDY HANWEN SHEN

MIT Media Lab - 75 Amherst St. - E14-464K - Cambridge, MA 02139 judyshen@mit.edu - heyyjudes.github.io - 425-589-7612

EDUCATION

Massachusetts Institute of Technology

2017–Current

Master of Science

Advised by Rosalind Picard

Affective Computing - MIT Media Lab

CGPA: 5.0/5.0

University of Toronto

2012 – 2017

Bachelor of Applied Science in Engineering Science

Electrical and Computer Engineering Option

High Honors (Top 3%)

Faculty of Applied Science and Engineering

CGPA: 3.9/4.0

RESEARCH EXPERIENCE

MIT Media Lab

September 2017– Current

Graduate Research Assistant

Advisor: Rosalind Picard

- · Fair classifiers for subjective labeling tasks (Thesis committee: Antonio Torralba and Sendhil Mullainanthan).
- · Pragmatic and semantic modeling of simple reference games (with Roger Levy MIT Brain and Cognitive Sciences).
- · Automated matching methods for investigating stylistic bias in sentiment analysis models (with Alexander M. Rush Harvard SEAS).

University of Toronto Department of Computer Science

September 2016–May 2017

Thesis Student

Advisor: Frank Rudzicz

· Detecting anxious behavior on Reddit: extracted semantic and topic features to study communication patterns of Reddit users with anxiety. This includes both identifying the difference between anxious Reddit posts and regular Reddit posts in linguistic expression and finding features and patterns consistent with existing psychology literature.

National University of Singapore

Electrical and Computer Engineering

May 2013–August 2013

Summer Research Student

Advisor: Anjam Khursheed

· Recreating great discoveries and inventions in physics: developed hands-on demos/experiments that can assist the teaching of physics/engineering principles in schools, polytechnics and universities in Singapore. Experiments created include an oscillating cylinder compressed-air engine, a pendulum-weight mechanical clock and a vacuum pump and chamber.

PUBLICATIONS AND PEER-REVIEWED WORKSHOPS

Comparing Models of Associative Meaning:

An Empirical Investigation of Reference in Simple Language Games

October 2018

Proceedings of the 22nd Conference on Computational Natural Language Learning (CoNLL 2018)

JH. Shen, M. Hofer, B. Felbo, R. Levy

Oral presentation

Darling or Babygirl? Investigating Stylistic Bias in Sentiment Classification. July 2018 5th Workshop on Fairness, Accountability, and Transparency in Machine Learning (FATML 2018)

JH. Shen*, L. Fratamico*, I. Rahwan, A. M. Rush

Oral presentation

TuringBox: An Experimental Platform for the Evaluation of AI Systems

July 2018

5th Workshop on Fairness, Accountability, and Transparency in Machine Learning (FATML 2018)

Z. Epstein, B.H Payne, **JH. Shen**, CJ. Hong, B. Felbo, A. Dubey, M. Groh, N. Obradovich, M. Cebrian I. Rahwan

Oral presentation

Evolution of employment in the United States: a half-century of polarization

July 2018

4th International Conference on Computational Social Science

JH. Shen, M. Frank, E.Moro, I. Rahwan

Extended abstract and contributed talk

Detecting Anxiety through Reddit

July 2017

Proceedings of the Fourth Workshop on Computational Linguistics and Clinical Psychology

JH. Shen, F. Rudzicz

Oral presentation

TEACHING EXPERIENCE

Teaching Assistant

Spring 2017

University of Toronto Department of Computer Science Digital Systems and Computer Organization

EMPLOYMENT EXPERIENCE

Program Manager Intern

Summer 2015, Summer 2016, Summer 2017

Microsoft

Seattle, USA

- · Conceptualized, designed and shipped full implementation of suggested groups interface and algorithm in Outlook Groups feature; worked closely with engineering, UI design, product marketing and user research teams to deliver full feature to production.
- Delivered prototype for integrating AI answer bot into the Outlook conversation experience powered by Bing NLP algorithms; developed vision with partner teams for overall bot integration strategy across all Outlook experiences.
- · Worked on event sourcing database architecture features on CosmosDB noSQL database team in Azure Data Platform Group.

Robotics Engineer

August 2015 - May 2016

Verity Studios

Zürich, Switzerland

- · Designed, implemented and tested various drivers for autonomous quadcopter system including CRC, LED, Can Bus, EEPROM, IMUs and Bootloaders.
- · Analyzed performance of embedded programs on TI microprocessor using advanced trace modules.
- · Fabricated customized components to test various microprocessor integrated PCB units.
- · Automated testing of embedded memory peripherals using relay components.

Software Engineer

May 2014 – August 2014

Intel

San Jose, USA

- · Designed algorithms and tools to support FPGA development: developed tool to automate flow of generating maps that connect physical circuit elements to software elements using python and eclipse.
- · Wrote full documentation for tool and TCL scripts to simplify the operation of the tools.

HONORS AND AWARDS

Spirit of EngSci Award

October 2017

Awarded for exemplary non-academic contributions within the University community.

C. William Daniel Leadership Award

October 2015

Awarded for academic standing, leadership qualities, and community involvement.

AJB Software Kick-Start Award

October 2014

Awarded for academic merit and entrepreneurial spirit.

Peter Sands Award in Engineering Science

November 2014

Awarded for qualities of character, leadership, and commitment to profession of Engineering.

Class of 5T0 Engineering Leadership Award

October 2013

Awarded for high academic performance, leadership potential, and volunteerism.

Center for International Experience Research Grant

June 2013

Research grant for summer research project at National University of Singapore.

LEADERSHIP AND SERVICE

| MIT Media Lab 'Meet the Lab' Organizer | 2017-current |
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| MIT Media Lab Deep Learning Reading Group Organizer | 2017-current |
| Women in Machine Learning (WiML) Workshop Volunteer | 2017, 2018 |
| Engineering Science Student Society President | 2016-2017 |
| University of Toronto Engineering Policy Forum Founder | 2016-2017 |
| NSight Mentorship Program Director | 2014-2015 |
| Apassionata Music Group Director | 2014-2015 |