JUDY HANWEN SHEN

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EDUCATION

Massachusetts Institute of Technology 2017–Current
MS in Media Arts and Sciences
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 (MS thesis committee: Antonio Torralba and Sendhil Mullainanthan).
· Pragmatic and semantic modeling of popular communication game: Codenames (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 - CSC258

EMPLOYMENT EXPERIENCE

Technical Program Manager Intern June 2017 – August 2017
Microsoft *Seattle, USA*

· Worked on event sourcing database architecture features on CosmosDB noSQL database team in Azure Data Platform Group.

Program Manager Intern May 2015–August 2015, May 2016–August 2016
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.

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.

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 who exhibit leadership potential and volunteerism.

Center for International Experience Research Grant June 2013
Research grant for summer research project at National University of Singapore.

LEADERSHIP

MIT Media Lab 'Meet the Lab' Organizer 2017-current

MIT Media Lab Deep Learning Reading Group Organizer 2017-current

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