



Name Mustafa Hussain  
Position Graduate Student  
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## Education

University of California, Irvine *June 2016 – Present*

Pre-doctoral Candidate, Health Informatics. **GPA 3.976** as of May 12, 2018

Florida Polytechnic University *August 2014 – May 2016*

MS Innovation & Technology. Additional focus on Health Informatics. GPA 3.86

University of Utah *August 2009 – July 2014*

BS Computer Science. Additional focus on Cognitive Science. GPA 3.75

## Working Experience

University of California San Diego Health *June 2018 – August 2018*

Intern, Department of Biomedical Informatics. Conducted participatory design of a “Big Data service” at University of California San Diego Health, with the aim of utilizing existing patient records to improve quality of care for patients with rare or poorly understood conditions.

Lakeland Regional Health *June 2015 – July 2015*

Intern, Clinical Ancillary Systems. Designed and programmed interactive worklist.

Florida Polytechnic University *August 2014 – May 2016*

Graduate Assistant. Delivered presentation at 2015 Industry Summit.

VaultRMS *August 2014*

Web Designer. Interviewed users and stakeholders, created interactive prototype for TrackTrain, application to help training directors manage officer training.

Perception Research Group *June 2010 – July 2014*

Undergraduate Assistant. Created first outdoor 3D virtual environment for lab. Wrote readable, maintainable programs to run experiments in Virtual Reality.

## Teaching Experience

How Computers Work *Fall 2018*

Instructor of record for nearly 200 students for ICS 10. Redeveloped curriculum and course materials.

i3 Teaching Fellow *June 21- July 7, 2018*

Co-developed and co-taught a module on programming to undergraduate

underrepresented in computer science at the iSchool Inclusion Institute (i3), University of Pittsburgh.

#### **Software Projects** *Spring 2017*

Teaching Assistant to Dr. Hadar Ziv for IN4MATX 117. Delivered several "TA Tech Talk" workshops. Described by students in review as friendly, responsive, enthusiastic, and helpful.

#### **Software Design 2** *Winter 2017*

Teaching Assistant to Dr. Emily Navarro for IN4MATX 122. Scheduled over 15 individual meetings in a 60-student course to deliver personal feedback on a programming assignment.

#### **Software Design 1** *Fall 2016*

Teaching Assistant to Dr. Emily Navarro for IN4MATX 121. Led discussion sections, facilitated teamwork. Wrote one student in review, "I usually don't give evaluations for [TAs], but I really wanted to give one to this TA [because] he's awesome."

#### **Computer Networks** *Spring 2016*

Teaching Assistant to Dr. Dean Bushey for CNT 3004. Provided homework help sessions. Developed and administered a programming-based networking homework assignment in Python.

#### **Programming Languages** *Spring 2016*

Teaching Assistant to Dr. Dean Bushey for COP 4400. Delivered Matlab demonstration.

#### **Digital Logic Design** *Fall 2015*

Teaching Assistant to Dr. Anas Salah Eddin for EEL 3712c. Supported students during lab sessions. Delivered FPGA demonstration.

#### **Photoshop Basics Workshop** *Spring 2015*

Designed and led interactive workshops and curriculum with an undergraduate student for Dr. Kathryn Miller. Presented digital art techniques and visual design principles.

### **Academic Papers**

Hussain MI, Reynolds TL, Mousavi FE, Chen Y, Zheng K. Thinking Together: Modeling Clinical Decision-Support as a Sociotechnical System. *AMIA Annual Symposium*. 2017.

Hussain, M., Dewey, J., and Weibel, N. (2016). Reducing alarm fatigue: Exploring decision structures, risks, and design. *EAI Endorsed Transactions on Pervasive Health and Technology*.

[\[PDF\]](#)

**Best Paper Award** Hussain, M., Dewey, J., and Weibel, N. (2016). Mitigating medical alarm fatigue with cognitive heuristics. *Pervasive Health*. Springer London. [\[PDF\]](#)

Hussain, M. and Weibel, N. (2016). Can DiCoT Improve Infection Control? A Distributed Cognition Study of Information Flow in Intensive Care. *CHI'16*. New York, NY: ACM Press. [\[PDF\]](#)

## Other Papers & Presentations

Hussain, M. (July 7, 2017) Technological Time Management. Workshop on using technology to manage time as a graduate student presented to incoming Competitive Edge cohort.

Hussain, M. (October 1, 2015). Overcoming the Subtle Impulse. Presented at Florida Polytechnic Diversity Awareness Event.

Hussain, M. (April 8, 2015). Alarm fatigue. Presented to Florida Polytechnic Industry Summit.

Hussain, M. (2014). Do safety barriers affect height perception? Unpublished bachelor's thesis, University of Utah.

## Computer Languages & Software

Python	Web/Databases	Statistical	Languages	Prototyping
SciPy, NumPy	HTML/CSS/JS	Matlab	C#	Fireworks
NLTK (Natural Language)	PHP	Stata	Java	Illustrator
Vizard (Virtual Reality)	MySQL	SPSS	C/C++	Photoshop
Flask (Web Server)	CCL (Cerner)		Verilog	Balsamiq
ZODB				

## Volunteering and Service

**Graduate InterConnect Program Peer Mentor** *September 2018- June 2019*

Served as a peer mentor to international graduate students, guiding their acclimation to and navigation of life at University of California, Irvine.

**i3 Teaching Fellow** *June 21- July 7, 2018*

Co-developed and co-taught a module on programming to undergraduate underrepresented in computer science at the iSchool Inclusion Institute (i3), University of Pittsburgh.

**AMIA Reviewer** *April 2018*

Reviewed submissions for the American Medical Informatics Association conference.

**Diversity In Leadership Summit** *April 6-7, 2018*

Served as panel member and "speed mentor" to undergraduates underrepresented in engineering and computer science at California State University Fullerton.

**Informatics Grad Students Association** *November 2016-September 2017*

Co-Social Chair. Facilitated events with the goal of promoting social cohesion and collective career success among department graduate students.

**AMIA Reviewer** *April 2017*

Reviewed submissions for the American Medical Informatics Association conference.

**AMIA Volunteer** *November 2016*

Greeted conference attendees at entryways, ensured speakers had adequate AV support.

**SHARE For Cures** *May 2016*

Generated conceptual web designs as a team to support patients' selection of data to disclose for research purposes, as part of chi4good Day of Service.

**Florida Polytechnic Diversity Club** *October 2014 – May 2016*

Founder, first President, second Secretary. Organized and facilitated meetings and events with the goal of promoting an inclusive University environment.

**Florida Polytechnic Student Government Policy Committee** *December 2014 – May 2016*

Appointed Chair after organizing committee on social media. Reviewed University policy drafts, facilitated discussions, and provided feedback to faculty and staff.

**Perception Research Group** *December 2009 – May 2010*

Volunteer. Created basis for more detailed outdoor model, completed later.

## **Scholarships, Grants, and Awards**

### **University of California Irvine**

- CORCL (Zheng, Faculty Advisor) 2017
- Provost PhD Fellowship 2016 - 2019
- Competitive Edge Program 2016
- Chair's Award 2016
- Graduate Dean's Recruitment Fellowship 2016

### **Florida Polytechnic University**

- Inaugural Scholarship 2014 – 2015
- Presidential Merit Scholarship 2014 – 2015

### **University of Utah**

- Dean's List Award, University of Utah 2009 – 2014
- Joseph Hyde Merrill Merit Scholarship, \$2500 2013 – 2014

- Wagstaff Merit Scholarship, \$1000 2013 – 2014
- Robert W. Goodfellow Merit Scholarship, \$2000 2012 – 2013
- School of Computing Faculty Merit Scholarship, \$1000 2012 – 2013
- Robert G & Mary Jane Engman Merit Scholarship \$2000, 2011 – 2012
- Frederick O. Tjaden Merit Scholarship, \$2000 2010 – 2011

### **Non-Academic**

#### **Slingshot Business Concept Competition April 2015**

Designer, "Solar Cell Solutions" Team. Awarded first place; \$3000.

### **Training and Certificates**

#### **UCSD CITI Training October 3, 2016-October 3, 2019**

Biomedical Researcher: Basic/Refresher certificate. ID: 4041264. Report ID: 21005333.

#### **UCSD HIPAA Training October 27, 2016-October 27, 2018**

Research Aspects of HIPAA. UCSD HRPP HIPAA ID: H58136

#### **UCI CITI Training**

Human Subject Research for Biomedical Investigators, Stage 1 - Basic Course, Record ID: 22816434, Expire 02-Oct-2021. Human Subject Research for Social/Behavioral Investigators, Stage 1 - Basic Course, Record ID: 22518363, Expires 21-Feb-2019.

#### **UCI HIPAA Training Completed April 5, 2017**

#### **InterConnect Training April-June, 2018**

Acquired skills necessary to serve as an international student peer mentor at University of California, Irvine.

#### **Mentoring Excellence Program April-May, 2018**

Acquired skills necessary for positions in the graduate resource center (e.g., international student mentoring, writing consultant) at University of California, Irvine.

#### **AB540 and Undocumented Ally Training February 10, 2017**

A workshop on creating a welcoming, supportive campus environment for immigrant students.

#### **Anteater Ally Training October 11, 2016**

A workshop on disability etiquette, and how to support and advocate for persons with disabilities on campus.