

Eric (Ehsan) Qasemi

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Education

PhD. in Computer Science Cont.
Univ. of Southern California 3.48/4.0

MSc. in Computer Science 2018
Univ. of Wisconsin-Madison 3.56/4.0

MSc. in Computer Engr. 2018
Univ. of Wisconsin-Madison 3.56/4.0

BSc. in Electrical Engr. 2015
University of Tehran 16.12/20.0

Skills

LANGUAGES: Python, C/C++, Java,
Scala, Matlab, Julia, Cuda

ML&DS: Torch, Tensorflow, Keras,
Pandas, Matplotlib, Bokeh, scikit

HPC: Hadoop (HDFS, Tez), Spark
(SQL, Streaming, GraphX), Apache
(Hive, Storm, Flink)

DATABASES: SQL, SQL-Lite, Redis,
ElasticSearch, RocksDB, MongoDB

Web: React, Flask, Django, HTML,
CSS, JavaScript

Honors

Research Scholarship Recipient from
University of Southern California
(2018)

1st place in National Digital System
Design Competition, HW/SW
Co-design League, Iran (2013)

Voluntary

President at Persian Student's Society
of UW Madison (PSS) 2015-2017

Board Member of the first Iranian film
festival (WIFF), March '17

Research Experience

Machine Common Sense Reasoning

Los Angeles, CA 2019-Cont.

CSKG: Consolidate various resources of commonsense knowledge into
a first integrated commonsense knowledge graph

ContextQuisite: Reinforcing commonsense knowledge graphs with con-
textual requisites

Knowledge Graph Embedding for Table Parsing

Los Angeles, CA Summer '19

Representational capacity of graph embedding for ontology mapping in
Knowledge Graphs

Tabular Data to Knowledge Graph: Understand table context and map
the content to knowledge graphs such as dbpedia and wikidata

End-to-End AutoML

Los Angeles, CA Jan-May '19

Study on Meta-learning approaches for E2E-AutoML with focus on data-
preparation

DSBox: End-to-End Automated Machine Learning system

Beats state-of-the-art E2E-AutoML systems and human baseline on
D³M's datasets

Discovery of Autism Spectrum Disorder (ASD)

Madison, WI 2016-'18

Research and development in big heterogeneous spatiotemporal data

Designed deep LSTM model for ASD prediction

Work Experience and Internships

Research Intern

Information Sciences Institute, Marina Del Ray, CA Summer '18

Designed a Meta-Learning pipeline recommender system for automated
machine learning in high dimensional structured datasets

Software/Hardware Engineer

IWIN Co., Tehran, Iran 2014, '15

SoC Hardware Security Module (HSM) for banking applications

10x improvement on AES, 9x improvement on key manager, and 4x im-
provement on RSA

Lead the HW team to design cryptography algorithms and secure key
managers

Research Intern

Pardis Co, Tehran, Iran Summer '16

Designed an Embedded low cost server for real-time media encryption

Selected Publication

NLP Ilievski F, Szekely P, Cheng J, Zhang F, Qasemi E. Consolidating Commonsense Knowledge.
arXiv preprint arXiv:2006.06114. 2020 Jun 10.

AutoML E. Qasemi, S. Stan, K. Yao, R. Shao, J. Liu, M. Liang, L. J. Ferrer, P. Szekely, "DSBox: Data
Scientist in a Box", ISI Graduate Student Symposium (GSS '19), Marina Del Rey, California,
USA.

ML Yu F, Thayer M, Qasemi E, Zhu K, Assadi A. Deep Learning Features in Atmospheric Chemistry:
Prediction of Cancer Morbidity Due to Air Pollution. In 2017 International Conference on
Computational Science and Computational Intelligence (CSCI) 2017 Dec 14 (pp. 1764-
1766). IEEE.

NLP Thawani A, Hu M, Hu E, Zafar H, Divvala NT, Singh A, Qasemi E, Szekely PA, Pujara J. Entity
Linking to Knowledge Graphs to Infer Column Types and Properties. In SemTab@ ISWC 2019
(pp. 25-32).

AI E. Qasemi, Mohammad H. Shadmehr, Bardia Azizian, Amir Samadi, Sajjad Mozaffari, Amir
Shirian and Bijan Alizadeh, "Highly Scalable, Shared Memory, Monte Carlo Tree Search
based Blokus Duo Solver on FPGA", International Conference on Field-Programmable Tech-
nology (FPT), 2014.