Ehsan (Eric) Qasemi

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Research Interest			
Commonsense Reasoning	Natural Language Processing	Multi-Modal Inference	
Education			
Ph.D. in Computer Science	University	of Southern California (2018-2023)	
M.Sc. in Computer Science	University of Wisconsin-Madison (2015-18)		
B.Sc. in Electrical Engineering		University of Tehran (2010-15)	

Honors & Awards

• 4-Year Research Scholarship Recipient from University of Southern California	2018-2022
• 3'rd place in Semantic Web Challenge on Tabular Data to Knowledge Graph Matching (IS'	WC) 2019
• 1'st place in Hardware-Software Co-design Competition, CADS	2013
• 1'st place in 2D Soccer Simulation Competition, Iran	2008
• Ranked as 57 among ≈500,000 students in National Universities Entrance Exam, Iran	2010

Publication

- 1. Qasemi E, Ilievski F, Chen M, Szekely P. "PaCo: Preconditions Attributed to Commonsense Knowledge", EMNLP-Findings 2022.
- 2. Qasemi E, Khanna P, Ning Q, Chen M. "PInKS: Preconditioned Inference with Weak Supervision", AACL-IJCNLP 2022.
- 3. [Under Review for EMNLP2023] Qasemi E, Maina-Kilaa A R, Dash D, Alsaggaf K, Chen M. "PRISM: Preconditioned Visual Language Inference and Rationalization using Weak Supervision" arXiv preprint arXiv:2306.01753.
- 4. [Under Review for ITSC2023] Qasemi E, Oltramari A, Francis J. "Traffic-Domain Video Question Answering with Automatic Captioning".
- 5. [Under Review for EMNLP2023] Huang T, Qasemi E, Li B, Wang H, Brahman F, Chen M, Chaturvedi S, "Affective and Dynamic Beam Search for Story Generation".
- 6. [Under Review for EMNLP2023] Singh, Shikhar, Ehsan Qasemi, and Muhao Chen. "VIPHY: Probing" Visible" Physical Commonsense Knowledge." arXiv preprint arXiv:2209.07000 (2022).
- 7. Qasemi E, Oltramari A. "Intelligent Traffic Monitoring with Hybrid AI", Artificial Intelligence for Autonomous Driving workshop at IJCAI, 2022.
- 8. Qasemi E, Ilievski F, Chen M, Szekely P. "CoreQuisite: Circumstantial Preconditions of Commonsense Knowledge". West Coast NLP, 2021.
- 9. Ilievski F, Szekely P, Cheng J, Zhang F, Qasemi E. "Consolidating Commonsense Knowledge". arXiv preprint arXiv:2006.06114. 2020 Jun 10.
- 10. 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". InSemTab@ ISWC 2019 (pp. 25-32).
- 11. Qasemi E, Kezar L, Pujara J, Szekely P. Evaluating Machine Common Sense via Cloze Testing. arXiv preprint arXiv:2201.07902.
- 12. Qasemi E, Stan S, Yao K, Shao R, Liu J, Liang M, Ferrer LJ, Szekely P, "DSBox: Data Scientist in a Box", ISI Graduate Student Symposium (GSS '19), Marina Del Rey, California, USA.
- 13. Yu F, Thayer M, Qasemi E, Zhu K, Assadi A. "Deep Learning Features in Atmospheric Chemistry: Prediction of Cancer Morbidity Due to Air Pollution". 2017 International Conference on Computational Science and Computational Intelligence (CSCI) 2017 Dec 14 (pp. 1764-1766). IEEE.
- 14. Yuchen S, Qasemi E, Ardalan A, Gao H, Assadi AH. "Deep Learning Art History from Data: Baroque Intellectual Influence on the Romantic Era Painting". 2017 International Conference on Computational Science and Computational Intelligence (CSCI) 2017 Dec 14 (pp. 391-393). IEEE.
- 15. Han P, Qasemi E, Ardalan A, Gao H, Assadi AH. "Deep Learning Empirical Topology for Classical Music Style Decision Making". 2017 International Conference on Computational Science and Computational Intelligence (CSCI) 2017 Dec 14 (pp. 394-395). IEEE.

- 16. Biglari M, **Qasemi E**, Pourmohseni B. "Maestro: A high performance AES encryption/decryption system". InThe 17th CSI International Symposium on Computer Architecture & Digital Systems (CADS 2013) 2013 Oct 30 (pp. 145-148). IEEE.
- 17. **Qasemi** E, Samadi A, Shadmehr MH, Azizian B, Mozaffari S, Shirian A, Alizadeh B. "Highly scalable, shared-memory, Monte-Carlo tree search based Blokus Duo Solver on FPGA". In2014 International Conference on Field-Programmable Technology (FPT) 2014 Dec 10 (pp. 370-373). IEEE.
- 18. Pasandi G, **Qasemi** E, Fakhraie SM. "A new low-leakage T-Gate based 8T SRAM cell with improved write-ability in 90nm CMOS technology". In2014 22nd Iranian Conference on Electrical Engineering (ICEE) 2014 May 20 (pp. 382-386). IEEE.
- 19. Pasandi G, Fakhraie SM, **Qasemi** E. "A New Tri-State Based Static Random Access Memory (SRAM) with Improved Write-Ability and Read Stability". In2014 JCSE Vol. 10, No.2 & 4, Summer 2012 & Winter 2013

Research and Industry Experien	nce
Oracle	Los Angeles, USA
Research Intern Intelligent Automation in Oracle Heatwave infrastructure	Fall 2022
Robert Bosch LLC.	Pittsburgh, USA
Hybrid AI Intern Supervised by Alessandro Oltramari Autonomous Driving and Traffic Monitoring with Hybrid AI	Summer 2022
Center on Knowledge Graphs Research Assistant Co-supervised by Muhao Chen & Pedro Preconditioned Inference on Machine Commonsense Knowled Multi-Modal Commonsense Inference	
Robert Bosch LLc.	Pittsburgh, USA
Hybrid AI Intern Supervised by Alessandro Oltramari Intelligent Traffic Monitoring with Hybrid AI	Summer 2021
Persepolis Research Group Research Assistant Supervised by Amir H. Assadi Applications of Deep Learning for discovery of Autism Spectr	University of Wisconsin-Madison 2016-18 um Disorder (ASD)
IWIN Co. Embedded Designer/Programmer/Verification Engineer Hardware Security Module (HSM) for secure finantial transact	Tehran, IR 2014-15 tions
Design, Verification, and Debug of Embedded Systems Lab Research Assistant Supervised by Bijan Alizadeh Hardware Design Artificial intelligence	University of Tehran 2012-14
System Intelligence Lab Research Assistant Supervised by Seyed Mahdi Fakhrai Artificial intelligence applications in Sub-threshold Memory D	University of Tehran Summer 2013 Design
Teaching and Mentoring	

Teaching:

• [U-Tehran] ICEEP: Embedded Linux Workshop

Summer 2014

• [UW-Madison] LCA 601,563: Advanced Persian Language

Fall '16, Spring '17

Mentoring:			
• [HMC] Amani Maina-Kilaas, Undergraduate Student, Computer Science (NSF REU program)	Summer 2022		
• [IIT] Tanay Dixit, Undergraduate Student, Computer Science (NSF REU program)	Summer 2022		
• [IIT] Devadutta Dash, Undergraduate Student, Computer Science (IUSSTF Viterbi program)			
• [UW-M] Khalid Alsaggaf, Undergraduate Student, Computer Science (KAUST-Viterbi Exchange) Summer 2022			
• [USC] Piyush Khanna, Undergraduate Student, Computer Science	Summer 2021		
• [USC] Shikhar Singha, Master Student, Computer Science			
• [NYU] Zijan Jin, Master Student, Computer Science	Fall 2021		
Teaching Assistant:			
• [USC] CSCI 544: Applied Natural Language Processing (R. Artstein, M. Rostami)	Fall 2022		
• [USC] CSCI 544: Applied Natural Language Processing (M. Chen, R. Artstein)			
• [UW-Madison] CS 354: Machine Organization and Programming (J. Skrentny)			
• [UW-Madison] CS 552: Introduction to Computer Architecture (Y. H. Hu)			
• [UW-Madison] CS 352: Digital System Fundamentals (K. Morrow, X. Zhang)			
• [UW-Madison] CS 252: Introduction to Computer Engineering (K. Morrow, M. Morrow)			
• [UW-Madison] ECE 344: Electrical Circuits (L. Shohet)			
• [U-Tehran] ECE 615: Electronic System Level Design (B. Alizadeh)			
• [U-Tehran] ECE 367: Digital Logic Design lab (Z. Navabi) Summer '14 '13, Fall '14			
• [U-Tehran] ECE 532: Object-Oriented Simulation of Electronic Systems (Z. Navabi)	Spring '14 '13		
• [U-Tehran] ECE 642: FPGA Base Embedded System Design (B. Alizadeh)	Fall '14 '13		
Professional Services			
PC Member:			
 Artificial Intelligence for Autonomous Driving (AI4AD), IJCAI 2022 Workshop International Semantic Web Conference (ISWC 2022) Research Track Information and Knowledge Management (CIKM 2022) European Chapter of the ACL (EACL 2023) - Language Resources and Evaluation SIAM International Conference on Data Mining (SDM 2023) International Semantic Web Conference (ISWC 2023) Research Track 			
Journal/Conference Reviewer:			
 Conference on Empirical Methods in Natural Language Processing (EMNLP) IEEE International Conference on Intelligent Transportation Systems (ITSC) International Conference on Natural Language Processing and Chinese Comp. (NLPCC2023) ACL Rolling Review (ARR) 			

Other Voluntary Activity

• Conference on Empirical Methods in Natural Language Processing (EMNLP)

• The 29th International Conference on Computational Linguistics (COLING 2022)

• ACL Rolling Review (ARR)

• ACL Rolling Review (ARR)

• ACL Rolling Review (ARR)

• TheWebConf 2019)

President of Persian Student's Society of UW-Madison (PSS)
 Board Member of the first Iranian film festival (WIFF) at UW-Madison
 March '17

Summer 2022

Summer 2022

Summer 2022

Spring 2022

Fall 2021

Dec 2018