## Sina Mahdipour Saravani

CONTACT	E-mail: sinamps@colostate.edu Homepage: sinamps.github.io		
FIELDS OF INTEREST	<ul> <li>Neural Language Representation, Interpretability in NLP, Commonsense Reasoning, Figurative Language Identification, Applications in Social Media Analysis</li> <li>Natural Language Processing, Deep Learning and Machine Learning for NLP</li> </ul>		
EDUCATION	Colorado State University, Fort Collins, United States  ⋄ M.S., Computer Science, In Progress  • Cumulative Grade Average: 4/4		
	Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran  ♦ B.Sc., Computer Systems Architecture  • Cumulative Grade Average: 16.61/20		
PUBLICATIONS ANI MANUSCRIPTS	D Sina Mahdipour Saravani, Ritwik Banerjee, and Indrakshi Ray. 2021. An Investigation into the Contribution of Locally Aggregated Descriptors to Figurative Language Identification. Accepted in Workshop on Insights from Negative Results in NLP co-located with Conference on Empirical Methods in Natural Language Processing (EMNLP 2021 Workshop).		
	Sina Mahdipour Saravani, Indrajit Ray, and Indrakshi Ray. 2021. Automated Identification of Social Media Bots using Deepfake Text Detection. Under review in <i>Internationa Conference on Information Systems Security (ICISS 2021)</i> .		
RESEARCH AND WORK EXPERIENCES	<ul> <li>Research Assistant, Colorado State University, USA</li> <li>Supervisors: Dr. Indrakshi Ray and Dr. Ritwik Banerjee</li> <li>Working on various NLP projects including the application of VLADs to NLP (for sarcasm detection in Twitter), claim/counterclaim detection in YouTube with regards to COVID-19 data, access control policy extraction from natural language documents, and machine translation for low-resource languages.</li> </ul>		
	<ul> <li>Graduate Assistant, University of Nevada, Las Vegas, USA</li> <li>Supervisor: Dr. Kazem Taghva</li> <li>Worked on Named Entity Recognition for Persian using a BiLSTM-CRF architecture.</li> </ul>		
	<ul> <li>NLP Developer and Research Assistant, CommentMiner, Iran</li> <li>Supervisor: Mr. Ahmad Asadi</li> <li>Worked in CommentMiner start-up on developing a set of text processing micro services and a question answering chat bot for Persian language. Services included short-text topic classification, profanity detection, NER, and sentiment analysis.</li> </ul>		
TEACHING AND MENTORING EXPERIENCES	<ul> <li>Mentor, Colorado State University</li> <li>Mentored four undergraduate and two high school students for research in NLP.</li> </ul>		
	<ul> <li>♦ Temporary Teaching Faculty, University of Nevada, Las Vegas</li> <li>♦ Computer Science II (CS202) course</li> </ul>		
	<ul> <li>♦ Teaching Assistant, University of Nevada, Las Vegas</li> <li>• Data Mining (CS458/658) course, Instructor: Dr. Kazem Taghva</li> </ul>		
	<ul> <li>Teaching Assistant, Amirkabir University of Technology (Tehran Polytechnic)</li> <li>Embedded &amp; Real-Time Systems course, Instructor: Dr. Hamed Farbeh</li> </ul>		
PROFESSIONAL SERVICES	♦ ICDCS 2021, Reviewer 2021		
	♦ <b>TheWebConf 2021</b> , Reviewer 2021		

	♦ ACISP 2021, Reviewer	2021
	♦ IEEE S&P 2020, Reviewer	2020
	♦ IEEE TPS 2020, Reviewer	2020
	<ul> <li>Scientific Association and Olympiad Affairs Office of Computer Engineering ment at Amirkabir University of Technology, Industry Relations Officer</li> </ul>	Depart- 2015
RELEVANT PROJECTS	⋄ Investigation into the Application of VLAD to NLP for Figurative Language cation, Colorado State University Investigated the application and effectiveness of vector of locally aggregated tors on top of Transformer-based language representation layers. Studied irony/detection in Twitter as a use case.	descrip-
	Deepfake Text Detection for Social Media Bot Identification, Colorado State Un Implemented Transformer-based models to detect bot-generated text on a deepfa resulting in performance improvements by using domain-specific pre-trained management.	ke dataset
	Claim/Counterclaim Pair detection in YouTube Comments, Colorado State Uni Currently designing a framework to extract claims and counterclaims from Video comments by claim detection, stance detection, and NLI.	-
	♦ Machine Translation for Similar Low-Resource Language Pairs with Loan	Words,
	Colorado State University  Currently studying the potential benefit of using load words in similar language incorporate that knowledge into a machine translation framework.	ages to
	<ul> <li>Extracting Access Control Policies from Natural Language Documents, Colora University</li> </ul>	
	Currently studying a transformer-based semantic role labeling approach for exaccess control policies and representing them in NGAC graphs.	tracting
	♦ Implementation of Convolutional and Pooling Layers of a CNN on FPGA, A	mirkabir
	University of Technology Implemented the convolutional and the max pooling functions of CNNs using Vivado High-Level Synthesis and ran this project on a ZYBO SoC board. This achieved up to 30 times faster throughput relative to the software code on a CP	s design
	♦ Activity Recognition with Wearable Sensor Dataset in Spark Platform, Univ	ersity of
	Nevada, Las Vegas Implemented scalable activity classification solutions (MLP Network, Logistic sion, and Decision Tree) using Spark libraries for motion data of the elderly in	-
HONORS AND AWARDS	♦ Fully-funded Research Assistantship, Colorado State University	2020
	<ul> <li>UNLV Access Grant, University of Nevada, Las Vegas</li> </ul>	2020
	♦ Fully-funded Graduate Assistantship, University of Nevada, Las Vegas	2019
	♦ <b>Top 50 start-ups</b> in GITEX start-ups competition, UAE (CommentMiner)	2017
	♦ 3 <sup>rd</sup> place in ElecomStars start-ups competition, Iran (CommentMiner)	2017
	♦ 1 <sup>st</sup> place grant in Sharif VC Cup start-ups competition, Iran (CommentMiner)	2017
	♦ Ranked top <b>0.2</b> % in Nationwide University Entrance Exam in Math. & Physics, Ira	ın 2014

REFERENCES Available upon request.

RELEVANT SKILLS 

PROGRAMMING: Python, Java, C/C++, C#

TOOLS AND FRAMEWORKS: PyTorch, Keras, TensorFlow, Hugging Face Transformers, MALLET, Stanford NLP, polyglot, NLTK, OpenMP, CUDA, Docker

♦ OTHERS: LATEX, Bash, Vivado and Hardware Design Softwares, Basic Web Programming