NATURAL LANGUAGE PROCESSING | MACHINE LEARNING □ 813-335-3919 | ■ mirzakhalov@usf.edu | ♠ mirzakhalov.me | • mirzakhalov.me

Research Interests

- Neural Machine Translation (NMT) for low-resource languages
- · Multilingual NLP & Cross-lingual transfer learning
- Automated Curriculum Learning for Natural Language Understanding (NLU) tasks

Education _

University of South Florida

Tampa, Florida

M.S. IN COMPUTER SCIENCE

Aug 2020 - present

Research Advisors: Dr. Sriram Chellappan and Dr. John Licato

University of South Florida

Tampa, Florida

B.S. in Computer Science | Honors College | Overall GPA: **3.84**

Research Advisor: Dr. Sriram Chellappan

Aug 2016 - May 2020

Publications & Patents ____

- 1. Mirzakhalov, J., Babu, A., McClinton, W., Chellappan, S., and Licato, J. (2020). Incorporating BERT Into Massively Multilingual Neural Machine Translation (2020), in review.
- 2. Laverghetta, A., Mirzakhalov, J., Licato, J. (2020). Towards a Task-Agnostic Model of Difficulty Estimation for Supervised Learning Tasks (2020), accepted to appear at AACL-SRW 2020.
- 3. Minakshi, M., Bharti, P., McClinton, W., Mirzakhalov, J., Carney, Ryan M., and Chellappan, S. (2020). Automating the Surveillance of Mosquito Vectors from Trapped Specimens Using Computer Vision Techniques. In ACM COMPASS 2020.
- 4. Chellappan, S., Bharti, P., Minakshi, M., McClinton, W. and Mirzakhalov, J., University of South Florida, 2020. Leveraging smart-phone cameras and image processing techniques to classify mosquito genus and species. U.S. Patent Application 16/673,641.
- 5. Chellappan, Mirzakhalov, J., and Kariev, Sh., University of South Florida, 2020. Ensuring Integrity of Email Content during Forwarding. USF Ref. No. 19B151
- Mirzakhalov, J., Babu, A., Andujar, M. (2020). Mudpoint: Evaluating Instructor Perception on a Continuous and Non-Specific Feedback System. In Learning and Collaboration Technologies. HCII 2020. Volume 12205 of the Lecture Notes in Computer Science.

Research Experience

Advancing Machine and Human Reasoning Lab (Dr. John Licato)

Tampa, FL

RESEARCH ASSISTANT

Jan 2020 - present

- · Explored the effect of deeply incorporated BERT embeddings on the performance of massively multilingual NMT
- Proposed a general curriculum learning framework for abductive Natural Language Inference (NLI) tasks

USF Social Computing Lab (Dr. Sriram Chellappan)

Tampa, FL

RESEARCH ASSISTANT

Jan 2018 - present

- · Worked on a team of 3 to develop a deep learning model for mosquito genus and species classification
- · Developed a mobile and web platform for a team of social scientists for anonymous and qualitative metadata extraction from user phones

Industry Experience _____

Salesforce San Francisco, CA

SOFTWARE ENGINEERING INTERN

May 2020 - Aug 2020

- Developed, tested and deployed features for Salesforce Blockchain Platform (BCP)
- Explored and analyzed various storage options for GDPR compliant practices at BCP
- · Prototyped an OData-based module that integrates the core concepts of blockchain and GDPR compliant storage solutions

J. MIRZAKHALOV · CV

IBM Research Yorktown, NY

RESEARCH INTERN May 2019 - Aug 2019

- Automated the deployment of AML and time-series prediction models to cloud environment using Docker and Kubernetes
- · Prototyped a general-purpose framework for service deployment to reduce the cloud migration time for researchers

Community Engagement

Language Technologies for Central Asia (LTCA)

Virtual

FOUNDER & GROUP LEAD

Sep 2020 - present

- · A community of researchers, programmers and linguists with a mission to build language technologies for languages spoken in Central Asia
- · Leading a team of 10+ on the creating datasets, developing NLP models and conducting academic research

Society of Competitive Programmers

Tampa, FL

CO-FOUNDER & PRESIDENT

Jan 2018 - Dec 2019

- Student organization that helps to foster hackathon culture at USF and supports students in their hackathon trips around the nation
- · Helped USF improve in annual Major League Hacking (MLH) rankings from 117th to 44th in the nation in a span of 2 years
- Reached over 350 active members and enabled more than 150 students experience their first hackathons
- Acquired over \$20k in funding for student travel through industry partnerships

USF Engineering EXPO Tampa, FL

VOLUNTEER DIRECTOR & EXHIBITOR

April 2018 - Feb 2019

- Worked with a committee of 30 students to collaborate on a two-day event organized for over 10,000 K-12 kids interested in STEM fields
- · Lead a team of over 200 student volunteers by distributing tasks, assigning daily goals, scheduling, and event set up/break down

Presentations & Demos _____

2020	Learning and Collaboration Technologies, HCII 2020, "Mudpoint: Evaluating Instructor Perception on a Continuous and Non-Specific Feedback System."	Copenhagen, Denmark	
2019	USF Undergraduate Research Colloquium,		
	"Citizen Epidemiology: Enabling Citizens to Automatically Classify Genus and Species of Mosquitoes from	Tampa, FL	
	Smartphone Images via Deep Learning"		
2018	Orlando-IX,	Orlando, FL	
	"USF Neuro-Machine Interaction Brain Drone Racing Simulation Demo"		

Honors & Awards

2020	Category Award, HackGT 7 at Georgia Institute of Technology	Atlanta, GA
2020	Top 50 Inspirational Hackers of 2020, Major League Hacking	New York, NY
2019	Category Award, HackGT 6 at Georgia Institute of Technology	Atlanta, GA
2019	Category Award, PennApps XX at Univ. of Pennsylvania	Philadelphia, PA
2019	2nd Place , Hackabull 2019 at Univ. of South Florida	Tampa, FL
2019	1st Place, KnightHacks 2019 at Univ. of Central Florida	Orlando, FL
2019	Award, Dean's List of Scholars (x4)	Tampa. FL
2019	Scholarship , USF Chair's Scholarship (\$500)	Tampa, FL
2019	Scholarship , Honors Community Engagement Scholarship (\$600)	Tampa, FL
2018	Category Award, CalHacks 5.0 at UC Berkeley	Berkeley, CA
2018	Category Award, MHacks X at Univ. of Michigan	Ann Arbor, MI
2016	Scholarship , USF Green & Gold Presidential Scholarship (\$48,000)	Tampa, FL

Skills_

Languages Python, Java, C++, JavaScript

Libraries NLTK, PyTorch, Keras, Tensorflow, HuggingFace, Jiant, Fairseq, OpenCV, GCP **Tools** Android Studio, React Native, Unity, Flask, Tomcat, Kubernetes, Docker, Git, REST