Amin Ghiasi

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Research Interests

- Computer Vision
- Deep Learning
- Machine Learning

Education

University of Maryland, College Park, Maryland, USA. 2017 - present
Advisor: Prof Tom Goldstein
Ph.D. in Computer Science

University of Maryland, College Park, Maryland, USA. 2017 - 2019
Advisor: Prof Tom Goldstein
M.S. in Computer Science

Sharif University of Technology, Tehran, Iran. 2012 - 2017
Department of Computer Engineering
B.Sc. in Computer Engineering

Publications

Feature Sonification: An Investigation on the Features Learned for Automated Speech Recognition (ASR) VISxAI 2022 2021
A Ghiasi, H Kazemi, R Huang, E Liu, M Goldblum, T Goldstein

Approximate Competitive Equilibrium with Generic Budget SAGT 21 2021
A Ghiasi, M Seddighin

DP-InstaHide: Provably Defusing Poisoning and Backdoor Attacks with Deferentially Private Data Augmentations Arxiv Paper 2021
E Borgnia, J Geiping, V Cherepanova, L Fowl, A Gupta, A Ghiasi, F Huang, M Goldblum, T Goldstein

The Uncanny Similarity of Recurrence and Depth Arxiv Paper 2021
A Schwarzschild, A Gupta, A Ghiasi, M Goldblum, T Goldstein

Strong Data Augmentation Sanitizes Poisoning and Backdoor Attacks Without an Accuracy Tradeoff ICASSP 2021 2021
E Borgnia, V Cherepanova, L Fowl, A Ghiasi, J Geiping, M Goldblum, T Goldstein, A Gupta

Breaking Certifiable Defenses: Semantic Adversarial Examples with Spoofed Robustness Certificates ICLR 2020 2020
A Ghiasi, A Shafahi, T Goldstein

Adversarially Robust Transfer Learning **ICLR 2020** 2020
A Shafahi, P Saadatpanah, C Zhu, A Ghiasi, C Studer, D Jacobs, T Goldstein

Towards Accurate Quantization and Pruning via Data-free Knowledge Transfer **SNN 2021** 2020
C Zhu, Z Xu, A Shafahi, M Shu, A Ghiasi, T Goldstein

Adversarial Training for Free! **NeurIPS 2019** 2019
A Shafahi, M Najibi, A Ghiasi, Z Xu, J Dickerson, C Studer, L Davis, G Taylor, T Goldstein

Batch-wise Logit-Similarity: Generalizing Logit-Squeezing and Label-Smoothing **BMVC 2019** 2019
A Shafahi, A Ghiasi, M Najibi, F Huang, J Dickerson, T Goldstein

On the Efficiency and Equilibria of Rich Ads **IJCAI 2019** 2019
A Ghiasi, M Hajiaghayi, S Lahaie, H Yami

Honors and Awards

Recipient of University of Maryland **Dean's Fellowship.** 2017 - present

ACM-ICPC World Finalist. 2018
Representing University of Maryland

Gold Medal in the 21th Iranian National Olympiad in Informatics. 2011

Bronze Medal in the 20th Iranian National Olympiad in Informatics. 2010

2nd Prize Sharif Cup, Android Competition. 2013

Teaching Experience

Introduction to Computer Programming via the Web Fall 2017 - Spring 2019

Advanced Numerical Optimization Spring 2019, 2020

IOI related: Teaching Graph Theory and Algorithm at Young Scholars Club [1] 2014
To students selected nationally preparing for IOI and INOI

IMO related: Combinatorics at Young Scholars Club Summer 2013
To students nationally selected, preparing for Iranina National Olympiad in Mathematics

Work Experience

- **Android Developer** at **Hebbeh Co.** 2016
  Charity start-up, responsible for android app.
- **Scrum Master** at **Lyan Co.** 2015
  Responsible for managing a group of 6 developers as well as developing backend server.

[1] Young Scholars Club is the sole regulating body for scientific olympiads in Iran.

- **Back-end Developer** at **Lyan Co.** 2014
  Provides easy interface for industries interested in having e-shop websites.
- **Android Developer** at **Kafshdoozak Co.** 2013
  Cartoon making app for children. Responsible for the android app.

Technical Skills

- **Programming Languages**: Python, C/C++, Java, Bash, and MATLAB.
- **Experienced In**: Pytorch, Tensorflow.
- **Operating Systems**: MacOS, Linux, and Windows.
- **Web Technologies**: HTML, React, REST-Framework, Django.
- **Typesetting**: LaTeX, Microsoft Office.

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