Saeed Khorram

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Google Scholar: https://scholar.google.com/citations?hl=en&user=-zfeeKUAAAAJ/

Education

Oregon State University, Corvallis, Oregon, USA
Ph.D. in Computer Science (2018 - 2023)
M.Sc. in Computer Science (2018 - 2020)
Adviser: Fuxin Li

Research Interests

Large-scale Generative Modeling, Computer Vision, Large Language Models, Long-tail Learning, Explainable AI (XAI), Self-supervised Learning.

Work And Research Experience

Applied Scientist at Apple, Inc.
Large Scale Generative AI for 2D/3D Vision.
July 2023 - Now

Machine Learning Research Engineer Intern at Scale AI, Inc.
Data Annotation Automation via 2D/3D Computer Vision for Autonomous Vehicles.
Jan 2021 - April 2021

Graduate Researcher at Oregon State University
Jan 2018 - June 2023

- Improving generative learning from long-tail data by re-thinking conditional GAN architecture.
- Generating realistic counterfactual visual explanations by latent transformations.
- Understanding recurrent policy networks by quantizing the representations for memory and observations using Moore machines.
- Non-negative factorization for feature disentanglement by low-rank matrix factorization and a novel ADMM training scheme for DNNs.
- Attribution map explanations using integrated-gradient optimized mask modeling.
- Automatic concept extraction from DNN activations via low dimensional embeddings.

Data scientist at Carrene AI
Automatic medical prescription analysis and coding.
July 2017 - Dec 2017

Selected Publications

- **Saeed Khorram**, Mingqi Jiang, Mohamad Shahbazi, Li Fuxin. "Taming the Tail in Class-Conditional GANs: Knowledge Sharing via Unconditional Training at Lower Resolutions". (under-review)
- Mingqi Jiang, **Saeed Khorram**, Li Fuxin. "Examining the Difference Among Transformers and CNNs with Explanation Methods". (under-review)
- Mingqi Jiang, **Saeed Khorram**, Li Fuxin. "Diverse Explanations for Object Detectors with Nesterov-Accelerated iGOS+". (BMVC 2023)
- **Saeed Khorram**, Li Fuxin. "Cycle-Consistent Counterfactuals by Latent Transformations". (CVPR 2022)
- Mohamad H. Danesh, Anurag Koul, Alan Fern, **Saeed Khorram**. "Re-Understanding Finite-State Representations of Recurrent Policy Networks". (ICML 2021)
- **Saeed Khorram**, Tyler Lawson, Li Fuxin. "IGOS++: Integrated Gradient Optimized Saliency by Bilateral Perturbations". (ACM-CHIL 2021)
- Zhongang Qi, **Saeed Khorram**, Li Fuxin. "Visualizing Deep Networks by Optimizing with Integrated Gradients". (AAAI 2020)

Professional Services

- Reviewer for ICLR, ICML, NeurIPS, CVPR, ECCV, and AAAI.

Coding

- Python, PyTorchLightning, Jax, Keras, Tensorflow, Matlab, C, JavaScript, HTML, CSS, Bash, Git, AWS, Kubernetes, Docker.