

# Saeed Khorram

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

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## 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

Foundation models, Generative Learning, Computer Vision, Long-tail Learning, Explainable AI (XAI), Self-supervised Learning, and Reinforcement Learning.

## WORK AND RESEARCH EXPERIENCE

**Applied Scientist at Apple, Inc.**

Foundation models for 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.