

Saeed Khorram

E-mail: khorr.am.saeed@gmail.com

Webpage: <https://khorr.am.saeed.github.io>

LinkedIn: <https://www.linkedin.com/in/saeed-khorram-7a0a8281/>

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

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

WORK AND RESEARCH EXPERIENCE

Applied Scientist at Apple, Inc.

Foundation models for vision (working closely w/ Alex Schwing & Alex Colburn). Responsibilities include large-scale training, evaluation, data preprocessing and streaming, improving model designs and prototyping, etc.

July 2023 - Now

Machine Learning Research Engineer Intern at Scale AI, Inc.

Data annotation automation via 2D/3D computer vision on 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 using 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 using NLP.

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”. (**CVPR 2024**)
- Mingqi Jiang, **Saeed Khorram**, Li Fuxin. “Examining the Difference Among Transformers and CNNs with Explanation Methods”. (**CVPR 2024**)
- 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, PyTorch, Jax, Tensorflow, Matlab, C, JavaScript, HTML, CSS, Bash, Git, AWS, Kubernetes, Docker.