

# Mohammad Saeed EBRAHIMI SAADABADI

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Fourth-year Ph.D. student; interested in machine learning, deep learning, applied statistics, and their applications in computer vision. For more information, please refer to [www.msed-ebrahimi.com](http://www.msed-ebrahimi.com)

## EDUCATION

PRESENT AUG. 2021	<b>West Virginia University</b> , Ph.D. in ELECTRICAL ENGINEERING Focused on representation learning, and metric learning.	<i>Morgantown, USA</i>
SEP. 2020 SEP. 2017	<b>K. N. Toosi University of Technology</b> , M.Sc. in BIOMEDICAL ENGINEERING	<i>Tehran, Iran</i>
SEP. 2017 SEP. 2012	<b>K. N. Toosi University of Technology</b> , B.Sc. in ELECTRICAL ENGINEERING	<i>Tehran, Iran</i>

## RESEARCH INTERESTS

- Autoregressive vision
- Data Augmentation
- Un/semi/weakly-supervised Learning
- Adversarial Learning
- Dataset Distillation

## SELECTED PAPERS

\* For a complete list of publications please refer to [google scholar](https://scholar.google.com/citations?user=me00018).

- [1] [Decomposed Distribution Matching in Dataset Condensation](#),  
Malakshan, **Saadabadi**, Dabouei, Nasrabadi  
*2025 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2025.*
- [2] [ARoFace: Alignment Robustness to Improve Low-Quality Face Recognition](#)  
**Saadabadi**, Malakshan, Dabouei, Nasrabadi  
*European Conference on Computer Vision (ECCV), 2024.*
- [3] [Hyperspherical Classification with Dynamic Label-to-Prototype Assignment](#)  
**Saadabadi**, Dabouei, Malakshan, Nasrabadi  
*2024 IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024.*
- [4] [A quality aware sample-to-sample comparison for face recognition](#)  
**Saadabadi**, Malakshan, Zafari, Mostofa, Nasrabadi  
*2023 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2023.*
- [5] [Joint super-resolution and head pose estimation for extreme low-resolution faces](#)  
Malakshan, **Saadabadi**, Mostofa, Soleymani, Nasrabadi  
*IEEE Access, 2023.*
- [6] [Maximum Relevance Minimum Redundancy Dropout with Informative Kernel Determinantal Point Process](#)  
Saffari, Khodayar, **Saadabadi**, Sequeira, Cardoso  
*Sensors, 2021.*

## SKILLS

- Advanced proficiency in Python; basic knowledge in C++ and Matlab.
- Expertise in deep learning frameworks including PyTorch and PyTorch Lightning; experienced with TensorFlow and Keras.
- Skilled in utilizing Python libraries such as NumPy, Pandas, Pillow, Matplotlib, and Scikit-learn for data analysis and model development.
- Comprehensive experience with Convolutional Neural Networks (CNNs), Vision Transformers (ViT), autoregressive image generation, diffusion models, and Distributed Data Parallel (DDP) training.

## COURSES

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- Application of Neural Networks, Deep Learning, Pattern Recognition, Stochastic Systems Theory, Computer Vision, Soft Computing, Digital Signal Processing, and Linear Algebra.

## PROFESSIONAL ACTIVITIES

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- Reviewer of CVPR, ICLR, AAAI, and WACV.

## REFERENCES

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### **Nasser M. Nasrabadi**

Professor of Electrical engineering  
Johns Hopkins University  
Email: nnasrab1@jhu.edu

### **Jeremy Dawson**

Professor of Electrical engineering  
West Virginia University  
Email: jeremy.dawson@mail.wvu.edu

### **Mohsen Saffari**

ASSISTANT PROFESSOR OF COMPUTER ENGINEERING  
Purdue University Northwest  
Email: msaffari@pnw.edu

### **Ali Dabouei**

Lead ML engineer  
neptunetech.io  
Email: ali.dabouei@gmail.com