

# Saeid Motiian

<http://vision.csee.wvu.edu/~motiian/>

<https://www.linkedin.com/in/motiian>

+1 (650) 445 8274 • [✉ samotiian@mix.wvu.edu](mailto:samotiian@mix.wvu.edu)

## Current Position

---

Machine Learning Engineer at Adobe

## Education

---

### PhD

West Virginia University  
Electrical Engineering

### MS

University of Tehran  
Electrical & Bio-Medical Engineering

### BS

Iran University of Science & Technology  
Electrical Engineering

## PhD Research

---

**Description:** The goal of my PhD research is to leverage the auxiliary information available only during training to improve visual recognition. We are also interested in addressing the domain adaptation problem for visual recognition in different settings. Specifically, we are interested in the settings when unlabeled samples from a target domain together with auxiliary information are available in training and when very few labeled samples from a target domain are available in training.

**PhD advisor:** Dr. Gianfranco Doretto (Associate Professor, [gianfranco.doretto@mail.wvu.edu](mailto:gianfranco.doretto@mail.wvu.edu))

**Committee:** Natalia A. Schmid, Don Adjeroh, Victor Fragoso, Mark Culp, Gianfranco Doretto (Chair)

## Master Thesis

---

**Title:** Improving the quality of speech conversion systems using non-parallel training

## Working Experience

---

- Machine learning engineer at Adobe (April 2018 - Present)
- Research intern at AiCure (Jun 2016 - Sep 2016)
- Graduate research assistant at West Virginia University (Aug 2012 - Feb 2018)

## Programming languages and skills

---

- Python
- C++
- PyTorch, TensorFlow and Keras
- Spark
- Matlab
- Android and IOS programming

## Publications

---

- S Pidhorskyi, Q Jones, S Motiian, D Adjeroh, G Doretto "Deep Supervised Hashing with Spherical Embedding," Asian Conference on Computer Vision (**ACCV**), 2018.
- S.Motiian, Q.Jones, M. Iranmanesh and G.Doretto, "Few-Shot Adversarial Domain Adaptation," The Conference on Neural Information Processing Systems (**NIPS**), 2017.
- S.Motiian, M. Piccirilli, D. Adjeroh, and G.Doretto, "Unified Deep Supervised Domain Adaptation and Generalization," International Conference on Computer Vision (**ICCV**), 2017.
- S.Motiian, M. Piccirilli, D. Adjeroh, and G.Doretto, "Information Bottleneck Learning Using Privileged Information for Visual Recognition," IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2016.

- S.Motiiian, G.Doretto, "Information bottleneck domain adaptation with privileged information for visual recognition," European Conference on Computer Vision (**ECCV**), 2016.
- S.Motiiian, F.Siyahjani, R.Almohsen, G.Doretto, "Online Human Interaction Detection and Recognition with Multiple Cameras," IEEE Tran. on Circuits and Systems for Video Technology (**TCSVT**), 2017.
- J.Donai, S.Motiiian, and G.Doretto, "Automated classification of vowel category and speaker type in the high-frequency spectrum," Audiology Research, 2016.
- S.Motiiian, P.Pergami, K.Guffey, C.Mancinelli, T.Rice, G.Doretto, "Automated Extraction and Validation of Children Gait Parameters with the Microsoft Kinect," BioMedical Engineering OnLine, 2015.
- F.Siyahjani, S.Motiiian, H.Bharthavarapu, S.Sharlemin, G.Doretto, "Online Geometric Human Interaction Segmentation and Recognition," In Proceedings of IEEE International Conference on Multimedia and Expo (**ICME**), July 2014.
- S.Motiiian, K.Feng, H.Bharthavarapu, S.Sharlemin, G.Doretto, "Pairwise Kernels for Human Interaction Recognition," In Advances in Visual Computing, Lecture Notes in Computer Science, pp. 210–221, Springer Berlin Heidelberg, 2013.
- S.Motiiian, H.Soltanian-Zadeh, "Improved Particle Swarm Optimization and Applications to Hidden Markov Model and Ackley Function," 4th IEEE International Conference on Computational Intelligence for Measurement Systems and Applications, Ottawa, Canada (CIMSAs 2011).
- S.Motiiian, M.Aghababaie, H.Soltanian-Zadeh, "Particle Swarm Optimization (PSO) for Power Allocation in Cognitive Radio Systems with Interference Constraints," 4th IEEE International Conference on Broadband Network and Multimedia Technology, Shenzhen, China (IC-BNMT 2011).

## Honors & Awards

---

- 2017 NIPS Travel Award.
- Doctoral Consortium Travel Grant, CVPR 2017.

## Professional Affiliations, Services, and Activities

---

- **Collecting a Human Interaction Dataset:** Our team collected the Human Activities Under Surveillance – Person Interaction (HAUS-PI) dataset and the Multiple Views version of HAUS-PI, indicated as MVHAUS-PI.
- Attended NIPS 2017, CVPR 2017, CVPR 2016, and ISVC 2013.
- Reviewer for several computer vision and machine learning conferences and journals (TPAMI, CVPR, ICCV, ...).

## Fields of Interest

---

### Data Mining:

- Deep Learning
- Generative Adversarial Networks
- Machine Learning (Neural Networks, Naive Bayes, Logistic Regression, Linear Regression, SVM, Clustering, ...)

### Video Processing:

- Human Interaction and Action Recognition

- Human Interaction and Action Detection

- Human Activity Recognition

### Image Processing:

- Feature Extraction
- Face Recognition and Verification

### Signal Processing:

- Speech Processing