

**Ali DABOUEI** ✉ [ad0046@mix.wvu.edu](mailto:ad0046@mix.wvu.edu)  [ali.daboue@gmail](https://github.com/alldbi)  [alldbi](https://orcid.org/alldbi)

Ph.D. candidate; interested in machine learning (ML), deep learning, pattern recognition, mathematics and their applications in computer vision. For more information, please refer to [www.aldbi.com](http://www.aldbi.com).

Interests: • Adversarial ML • Network Compression • Interpretable ML • Unsupervised Learning

## EDUCATION

---

PRESENT	<b>West Virginia University</b> , Ph.D. in ELECTRICAL ENGINEERING (GPA: 4.0/4.0)	<i>Morgantown, USA</i>
JAN. 2017	Advisor: <a href="#">Dr. Nasrabadi</a> , Co-advisor: <a href="#">Dr. Dawson</a>	
JAN. 2016	<b>Sharif University of Technology</b> , M.Sc. in ELECTRICAL ENGINEERING (GPA: 3.74/4.0)	<i>Tehran, Iran</i>
SEP. 2013	Advisor: <a href="#">Dr. Jahed</a>	
SEP. 2013	<b>Babol Noshirvani University of Technology</b> , B.Sc. in ELECTRICAL ENGINEERING	<i>Babol, Iran</i>

## WORK EXPERIENCE

---

PRESENT	<b>West Virginia University</b> , GRADUATE RESEARCH ASSISTANT	<i>Morgantown, USA</i>
JAN. 2017	Explored several topics within deep learning including adversarial robustness, generative models, network compression, prediction interpretation, un-/semi-/weakly-supervised learning, and deep metric learning.	
NOV. 2020	<b>Microsoft</b> , COMPUTER VISION RESEARCH INTERN	<i>Redmond, USA</i>
AUG. 2020	Studied the impact of catastrophic forgetting on the natural and adversarial performance of continual learning methods.	

## SELECTED PAPERS [SORTED BY DATE]

---

\* For a complete list of publications please refer to [google scholar](https://scholar.google.com/citations?user=ad0046).

### [1] Quality-Aware Multimodal Biometric Recognition

Soleymani, **Daboue**, Taherkhani, Iranmanesh, Dawson, Nasrabadi  
In *IEEE Transactions on Biometrics, Behavior, and Identity Science (TBIOM)*, 2021.

### [2] SuperMix: Supervising the Mixing Data Augmentation [PDF] [Code]

**Daboue**, Soleymani, Taherkhani, Nasrabadi  
In *2021 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.

### [3] Self-Supervised Wasserstein Pseudo-Labeling for Semi-Supervised Image Classification [PDF]

Taherkhani, **Daboue**, Soleymani, Nasrabadi  
In *2021 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.

### [4] Exploiting Joint Robustness to Adversarial Perturbations [PDF]

**Daboue**, Soleymani, Taherkhani, Dawson, Nasrabadi  
In *2020 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.

### [5] Transporting Labels via Hierarchical Optimal Transport for Semi-Supervised Learning [PDF]

Taherkhani, **Daboue**, Soleymani, Dawson, Nasrabadi  
In *2020 European conference on computer vision (ECCV)*, 2020.

### [6] Attribute Adaptive Margin Softmax Loss using Privileged Information [PDF]

Iranmanesh, **Daboue**, and Nasrabadi.  
In *2020 British Machine Vision Conference (BMVC)*, 2020.

### [7] SmoothFool: An Efficient Framework for Computing Smooth Adversarial Perturbations [PDF] [Code]

**Daboue**, Taherkhani, Soleymani, Dawson, Nasrabadi  
In *2020 IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2020.

### [8] Boosting Deep Face Recognition via Disentangling Appearance and Geometry

**Daboue**, Taherkhani, Soleymani, Dawson, Nasrabadi  
In *2020 IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2020.

### [9] Robust Facial Landmark Detection via Aggregation on Geometrically Manipulated Faces

Iranmanesh, **Daboue**, Soleymani, Kazemi, Nasrabadi  
In *2020 IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2020.

[10] [A Weakly Supervised Fine Label Classifier Enhanced by Coarse Supervision](#)

Taherkhani, Kazemi, **Dabouei**, Dawson, Nasrabadi

*In 2019 International Conference on Computer Vision (ICCV), 2019.*

[11] [Fast Geometrically-perturbed Adversarial Faces](#) [PDF][Code]

**Dabouei**, Soleymani, Dawson, Nasrabadi

*In 2019 IEEE Winter Conference on Applications of Computer Vision (WACV), 2018.*

[12] [Multi-Level Feature Abstraction from Convolutional Neural Networks for Multimodal Biometric Identification](#)

Soleymani, **Dabouei**, Kazemi, Dawson, Nasrabadi

*In 2018 International Conference on Pattern Recognition, 2018.*

## PATENTS

---

- [Cross-matching contactless fingerprints against legacy contact-based fingerprints.](#)
- [Fingerprint distortion rectification using deep convolutional neural networks.](#)

## AWARDS

---

- Best Student Paper Award in 9th IEEE International Conference on Biometrics, 2018.
- IAPR Best Biometrics Student Award in IAPR International Conference on Biometrics, 2018.

## REFERENCES

---

**Nasser M. Nasrabadi**

PROFESSOR OF ELECTRICAL ENGINEERING  
Lane Department of Computer Science  
and Electrical Engineering  
West Virginia University  
Phone: 304.293.4815  
Email: [nasser.nasrabadi@mail.wvu.edu](mailto:nasser.nasrabadi@mail.wvu.edu)  
Office: AERB 335, 395 Evansdale Dr,  
Morgantown, WV 26506

**Jeremy Dawson**

PROFESSOR OF ELECTRICAL ENGINEERING  
Lane Department of Computer Science  
and Electrical Engineering  
West Virginia University  
Phone: 304.293.4028  
Email: [jeremy.dawson@mail.wvu.edu](mailto:jeremy.dawson@mail.wvu.edu)  
Office: AERB 336, 395 Evansdale Dr,  
Morgantown, WV 26506

**Omid Dehzangi**

PROFESSOR OF COMPUTER ENGINEERING  
Lane Department of Computer Science  
and Electrical Engineering  
West Virginia University  
Phone: 304.293.1182  
Email: [omid.dehzangi@hsc.wvu.edu](mailto:omid.dehzangi@hsc.wvu.edu)  
Office: 8, Medical Center Dr,  
Morgantown, WV 26505

**Natalia Schmid**

PROFESSOR OF ELECTRICAL ENGINEERING  
Lane Department of Computer Science  
and Electrical Engineering  
West Virginia University  
Phone: 304.293.9136  
Email: [natalias@csee.wvu.edu](mailto:natalias@csee.wvu.edu)  
Office: AERB 354, 395 Evansdale Dr,  
Morgantown, WV 26506