

DEEN DAYAL MOHAN

+17162756246 ◊ dmohan@buffalo.edu

163 Crestmount Ave, Apt 2, Tonawanda, NY 14150

www.linkedin.com/in/deendayalmohan/ ◊ deenmohan.github.io

EDUCATION

University at Buffalo, The State University of New York Ph.D. Candidate, Computer Science <i>Specialization: Computer vision and Multi-Modal Representation Learning</i>	<i>Aug 2018 - Jun 2023</i> GPA - 3.83/4
University at Buffalo, The State University of New York Master of Science, Computer Science	<i>Aug 2016 - Jun 2018</i> GPA - 3.83/4
Mahatma Gandhi University, Kottayam, Kerala Bachelor of Technology, Electronics and Communication Engineering	<i>Jul 2010 - May 2014</i> CGPA - 7.23/10

RESEARCH EXPERIENCE

University at Buffalo, USA <i>Graduate Student Researcher - Center for Unified Biometrics and Sensors</i> <ul style="list-style-type: none">• Advised by Prof. Venu Govindaraju• Working on developing representation learning methods for uni-modal and multi-modal data with applications in image retrieval, vision-language understanding, audio-visual alignment, and multi-modal fusion.	Aug 2017 - Present
Yahoo Research, California, USA <i>Research Scientist Intern - Knowledge Science Team</i> <ul style="list-style-type: none">• Design and Developed methods for multi-modal layout understanding and content extraction from e-commerce product pages to enhance the product graph.	May 2022 - Aug 2022
Verizon Media, California, USA <i>Research Scientist Intern - Knowledge Graph Team</i> <ul style="list-style-type: none">• Collaborated with the knowledge graph team to perform information extraction from templatic web pages by leveraging the visual information associated with rendered web pages.	May 2021 - Aug 2021
Tata Consultancy Services, Kochi, India <i>Assistant System Engineer - Artificial Intelligence Lab</i> <ul style="list-style-type: none">• Designed a machine learning based anomaly detection framework for analyzing and detecting a deviation in television viewing patterns of people.	Jan 2015 - Jul 2016

COMPUTER SCIENCE SKILLS

Knowledge areas	: Computer Vision, Deep Learning, Machine Learning, Data Science
Programming Languages	: Python, C++, R
Databases	: MySQL, NoSQL
Deep Learning Toolkits	: Pytorch, Tensorflow
Other Utilities	: Git, Hadoop, Spark, AWS, Solr, Selenium, LIDAR

SELECTED PUBLICATIONS

- **D.D Mohan**, B.Jawade, N.M Ali, S. Setlur, V. Govindaraju, NAPReg : Nouns As Proxies Regularization for Semantically Aware Cross-Modal Embeddings (Under Peer Review).
- **D.D Mohan**, D.Fedorishin, B.jawade, S. Setlur, V. Govindaraju, Hear The Flow : Optical Flow-Based Self-Supervised Visual Sound Source Localization (Under Peer Review).

- D.Fedorishin, Justas Birgiolas, **D.D Mohan**, Livio Forte, Philip Schneider, S. Setlur, V. Govindaraju, Large-Scale Acoustic Automobile Fault Detection: Diagnosing Engines Through Sound.ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2022,(**Oral**).
- **D.D Mohan**, N. Sankaran, S. Tulyakov, S. Setlur, V. Govindaraju, TADPool : Target Adaptive Pooling for Set Based Face Recognition, IEEE Automatic Face and Gesture Recognition, 2021,(**Oral, Best Student Paper runner up**).
- **D.D. Mohan**, N. Sankaran, D.Fedorishin, S. Setlur, V. Govindaraju, Moving in the Right Direction : A Regularization for Deep Metric Learning, IEEE Computer Vision and Pattern Recognition, 2020.
- **D.D. Mohan**, N. Sankaran, N.Lakshminarayana, S. Setlur, V. Govindaraju, Domain Adapted Representation Learning for Action Unit Recognition, Pattern Recognition Journal 2019.
- **D. D. Mohan**, N. Sankaran, S.Setlur, V. Govindaraju, Representation Learning Through Cross Modal Supervision, IEEE Automatic Face and Gesture Recognition, 2019.
- **D. D. Mohan**, N. Sankaran, S Tulyakov, S.Setlur, V. Govindaraju, Significant Feature Based Representation for Template Protection, IEEE Computer Vision and Pattern Recognition Workshop on Biometrics, 2019.
- **D. D. Mohan**, N. Sankaran, N. Lakshminarayana, S. Setlur, V. Govindaraju. Multi-modal Conditional Feature Enhancement, ICML Workshop on Domain Adaptation and Visual Understanding, 2018.

ACADEMIC SERVICES

- Reviewer, IEEE Winter Applications on Computer Vision (WACV), 2023.
- Reviewer, IEEE Advanced Video and Signal-based Surveillance (AVSS), 2022.
- Reviewer, IEEE International Conference on Frontiers in Handwriting Recognition (ICFHR), 2020
- Reviewer, International Journal of Document Analysis and Research (IJDAR).

TEACHING EXPERIENCE

- Instructor for CSE 673 Computational Vision, Fall 2021, University at Buffalo.
- Instructor for CSE 487/587 Data Intensive Computing, Spring 2020, University at Buffalo.
- Invited Lectures CSE 610 Sports Video Analytics, Spring 2022.
- Invited Lectures CSE 666 Biometrics and Image Analysis, Spring 2022.
- Teaching Assistant for :
 - CSE 666 Biometrics and Image Analysis, Spring 2019.
 - CSE 429/529 Algorithms for Modern Computing, Fall 2017, Fall 2018, Fall 2019, Fall 2020.
 - CSE 487/587 Data Intensive Computing, Spring 2018.
 - CSE 474/574 Machine Learning, Spring 2021.

HONORS AND AWARDS

- Excellence in Teaching Award for Graduate Teaching Assistants 2021, by the Graduate School, University at Buffalo
- Ph.D. Best Teaching Award for 2020, by the Department of Computer Science and Engineering, University at Buffalo
- NVIDIA CCS Best Student Paper Award Runner Up, IEEE International Conference on Automatic Face and Gesture Recognition 2021
- Vice President, Computer Science and Engineering - Graduate Student Association (CSE-GSA), University at Buffalo, 2018