# TARUN KALLURI

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E-Mail | Webpage | Google Scholar | LinkedIn | GitHub

### RESEARCH INTERESTS

- Label Efficient Learning: Self/semi/weakly-supervised learning and learning with noisy labels.
- Domain Adaptation: Unsupervised domain adaptation, Transfer Learning.
- Trustworthy ML: Fairness, interpretability and robustness in AI.

### **EDUCATION**

Ph.D. Student in Computer Science, UC San Diego

La Jolla, CA, USA Sep. 2019 - Present

• Overall GPA: 3.9/4.0

B.Tech. in Indian Institute of Technology (I.I.T.)

Guwahati, India July.2012 - May.2016

• Major in Electronics and Communication (ECE), Minor in CSE.

• Overall GPA: 9.03/10

## **PUBLICATIONS**

- 1. MemSAC: Memory Augmented Sample Consistency for Large-Scale Domain Adaptation. Tarun Kalluri, Astuti Sharma, Manmohan Chandraker. In Submission, 2021.
- 2. FLAVR: Flow-Agnostic Video Representations for Fast Frame Interpolation. Tarun Kalluri, Deepak Pathak, Manmohan Chandraker, Du Tran. arxiv, 2021.
- 3. Instance Level Affinity Based Transfer for Unsupervised Domain Adaptation Astuti Sharma, Tarun Kalluri, Manmohan Chandraker. CVPR, 2021.
- 4. Universal Semi-supervised Semantic Segmentation. Tarun Kalluri, Girish Varma, Manmohan Chandraker, Jawahar, C.V. ICCV, 2019.
- Semantic Segmentation Datasets for Resource Constrained Training. Tarun Kalluri, Ashutosh Misra\*,
  Sudhir Kumar, Girish Varma, Anbumani Subramanian, Manmohan Chandraker, Jawahar, C.V. In NCVPRIPG
  2019. [Oral]
- Machine Learning for Accurate Force Calculations in Molecular Dynamics Simulations. Punyaslok Pattnaik, Shampa Raghunathan, Tarun Kalluri, Prabhakar Bhimalapuram, Jawahar, C. V., Deva Priyakumar. The Journal of Physical Chemistry A, 2020.

## RESEARCH & INDUSTRY EXPERIENCE

Jun. 2020 - Sep. 2020

Video Frame Interpolation

Research Intern - Du Tran, Deepak Pathak

- Fast and efficient video frame interpolation technique, without requiring any flow or depth information.
- Applied Research Labs, IIIT Hyderabad, India

Sep. 2017 - Aug. 2019

Semi-supervised Semantic Segmentation

Research Student - Prof. CV Jawahar

- Semi-supervised learning for semantic segmentation on diverse datasets, like road scenes from India and Europe using a novel feature alignment module.

- Oracle India Pvt. Ltd., Bengaluru, India Applied Data Scientist - SaaS Provisioning
  - Server technology team, with special focus on fusion application provisioning.
  - Developed *Spyder*, an automation tool for diagnosis of large scale cloud instance provisioning, upgrade and patching.

# TALKS & PRESENTATIONS

- Domain adaptation for urban scene understanding, Augmented Reality and Self-Driving workshop, Qualcomm San Diego, June 2020.
- Domain adaptation for urban scene understanding, SIAM Conference on Computational Science and Engineering, March 2021.

### ACADEMIC SERVICE

• Conference reviewer for IROS'20.

## HONORS & AWARDS

• Recipient of IPE PhD fellowship (link) 2020-21 for contribution towards practical ethics in AI.

2021

• Ranked 116 (top 0.1%) in EAMCET entrance exam and 2055 (top 0.4%) in JEE entrance exam.

May 2012

• Winner of SMS Classification Challenge, Video Action Recognition challenge at Samsung R&D Hackathon. Nov. 2017

# **SKILLS**

- Programming Language: MATLAB, C++, Python, Verilog, VHDL.
- Software and Platforms: TensorFlow, PyTorch, OpenCV.