

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:** Adversarial domain adaptation, Transfer Learning.
- **Robustness in ML:** Trustworthy ML, Interpretable representation learning.

EDUCATION

- Ph.D. Student in Computer Science, UC San Diego** La Jolla, CA, USA *Sep.2019 - Present*
- **Overall GPA:** 3.9/4.0
 - **Selected Courses:** Probabilistic Graphical Models, Computer Vision, Trustworthy Machine Learning, Online Learning, Probabilistic Unsupervised Learning, Convex Optimization.
- B.Tech. in Indian Institute of Technology, Guwahati** Guwahati, India *July.2012 - May.2016*
- Major in Electronics and Communication (ECE), Minor in CSE.
 - **Overall GPA:** 9.03/10
 - **Selected Courses:** Probability and Random Processes, Pattern Recognition and Machine Learning, Game Theory and Economics, Queuing Systems, Information Theory.

PUBLICATIONS

1. **FLAVR: Flow-Agnostic Video Representations for Fast Frame Interpolation.** Tarun Kalluri, Deepak Pathak, Manmohan Chandraker, Du Tran. (arxiv), 2020 [pdf]
2. **Instance Level Affinity Based Transfer for Unsupervised Domain Adaptation** Astuti Sharma*, Tarun Kalluri*, Manmohan Chandraker. **Anonymous Submission, 2020**
3. **Universal Semi-supervised Semantic Segmentation.** Tarun Kalluri, Girish Varma, Manmohan Chandraker, Jawahar, C.V.. **ICCV, 2019.** [pdf]
4. **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]
5. **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.** [pdf]

RESEARCH & INDUSTRY EXPERIENCE

- **Facebook AI Research, Menlo Park, CA, USA** *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*
Universal Representation Learning
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

July. 2016 - Aug. 2017

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.

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.