

# Tarun Kalluri

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Google Scholar | LinkedIn | Webpage | GitHub

## RESEARCH INTEREST

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Computer Vision, Deep Learning, Statistical Learning.

## EDUCATION

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|-------------|---|-----------------------|
| Fall 2019 - | PhD in Computer Science , <b>UC San Diego</b> .<br>Area: Computer Vision & Machine learning<br>Advisor: Dr. Manmohan Chandraker   | GPA: <b>3.9/4.0</b>   |
| 2012-2016   | B-Tech, <b>Indian Institute of Technology</b> (I.I.T.), Guwahati.<br>Major in Electronics and Communication Engineering (ECE)<br>Minor in Computer Science and Engineering (CSE)<br><i>Thesis</i> : Stochastic Energy Modeling in Wireless Networks [pdf] | GPA: <b>9.03/10.0</b> |

## EXPERIENCE

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| Jun 2020 - | <i>Summer Research Intern (Remote), Facebook AI, Menlo Park.</i> <ul style="list-style-type: none"><li>Working on representation learning from videos.</li></ul>   |
| 2017-2019  | <i>Research Fellow, CVIT Lab, IIIT Hyderabad</i> <ul style="list-style-type: none"><li>Developed algorithm for learning efficient and shareable universal representations from urban scenes useful in semantic segmentation.</li><li>Worked on a project to predict molecular force fields and particle trajectory using machine learning.</li></ul>                           |
| 2016-17    | <i>Data Scientist, Oracle India Pvt. Ltd., Bengaluru</i> <ul style="list-style-type: none"><li>Part of the SaaS automation team. Built an end-to-end automation tool <i>Spyder</i> to monitor client side database upgrade and down time by statistically analyzing error logs.</li><li><i>Spyder</i> is now widely adopted for client-side analytics across Oracle.</li></ul> |

## PUBLICATIONS

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- Kalluri, T., Varma, G., Chandraker, M., Jawahar, C.V.. *Universal Semi-supervised semantic segmentation. ICCV, 2019.* [pdf]
- Misra, A., Sudhir, K., Kalluri, T. , Varma, G., Anbumani, S., Chandraker, M., Jawahar, C.V.. *Semantic Segmentation Datasets for Resource Constrained Training*, In NCVPRIPG, 2019. [Oral]
- Kalluri, T., & Bohara, V. A. (2016, June). *Regenerative relaying in energy harvesting cognitive radio networks*. In Networks and Communications (EuCNC), 2016 European Conference on. [pdf]
- Kalluri, T., Peer, M., Bohara, V. A., & Dias, U. S. (2018). *Cooperative spectrum sharing-based relaying protocols with wireless energy harvesting cognitive user*. IET Communications, 12(7). [pdf]

## COURSEWORK

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**Graduate Level:** Probabilistic Graphical Models, Advanced Computer Vision, Convex Optimization, On-line Learning.

**Undergraduate Level:** Probability and Random Processes, Pattern Recognition and Machine Learning, Game Theory and Economics, Queuing Systems, Topics in Information Theory

## AWARDS AND HONORS

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- Ranked 116 in EAMCET entrance exam and 2055 in JEE entrance exam in 2012, out of more than 1 million students who appeared for both the exams.
- Won the SMS Classification Challenge, participated in the Video Action Recognition challenge at Samsung R&D Hackathon in Bengaluru. Also participated in Microsoft DeepLearning hackathon on Author Identification at Hyderabad in Dec 2017.
- Selected to participate in the Machine Learning Summer School (MLSS) conducted at IIIT-Hyderabad in July 2018 focusing on advances in modern AI. Awarded cash prize for standing among the best performing participants.
- Active Participant in various online competitions in Deep Learning including Kaggle, and active contributor to open source research.
- Highly proficient in Python, C++, bash scripting and deep learning packages like Tensorflow, PyTorch and Keras.

## PROFESSIONAL SERVICE

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- **Member:** PhD admissions student committee at UCSD, 2020
- **Reviewer:** IROS, 2020

## TALKS

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1. Domain adaptation for urban scene understanding, *Augmented Reality and Self-Driving workshop*, Qualcomm San Diego, June 2020.
2. Cross Task Adaptation for semantic segmentation, *Pixel Cafe*, UCSD, May 2020.
3. Universal Semi-supervised Semantic Segmentation, *Pixel Cafe*, UCSD, Nov 2019.