1400 University Avenue, Apt. C408A
Riverside, CA 92507
(951) 807-4062
drayc001@ucr.edu
driptarc.github.io

Dripta Sankar Raychaudhuri

Research Interests

Domain Adaptation/Generalization, Multi-task Learning, Few-shot Learning, Imitation Learning

Education

2018–Present **Ph.D., Electrical and Computer Engineering**, *University of California, Riverside*.
Advisor: Amit K. Roy-Chowdhury, **GPA:** 3.97/4
Thesis: Adaptive Deep Learning

2014–2018 **Bachelor of Engineering, Electronics & Telecommunication**, *Jadavpur University*.
Advisor: Ananda S. Chowdhury, **GPA:** 9.37/10
Thesis: Active contours for artery segmentation

Research Experience

Jun–Sep 2022 **Amazon Web Services Inc.(AWS AI), Seattle**, *Research Intern*.
- Mentors: Yifan Xing, Tiffany Deng
- Privacy preserving ML

Jun–Sep 2021 **NEC Laboratories, San Jose**, *Research Intern*.
- Mentors: Yumin Suh, Manmohan Chandraker
- Dynamic networks for multi-task learning

Jun–Sep 2020 **Mitsubishi Electric Research Laboratories, Cambridge**, *Research Intern*.
- Mentor: Jeroen van Baar
- Domain adaptive imitation learning

May–Jul 2017 **Universität Hildesheim**, *DAAD-WISE Scholar*.
- Mentors: Josif Grabocka, Lars Schmidt-Thieme
- Shapelet learning for multivariate time series

Teaching Experience

Apr–Jun 2021/2022 **EE243: Advanced Computer Vision**, *Teaching Assistant*.
- Instructor: Amit K. Roy-Chowdhury
- Grading, office hours and developing assignments.

Publications

- **Controllable Dynamic Multi-task Architectures** | **CVPR** 2022 *Oral*
  Dripta S. Raychaudhuri, Yumin Suh, Samuel Schulter, Xiang Yu, Masoud Farouki, Amit K. Roy-Chowdhury, Manmohan Chandraker
- **Cross-domain Imitation from Observations** | **ICML** 2021 *Oral*
  *Dripta S. Raychaudhuri**, Sujoy Paul*, Jeroen van Baar, Amit K. Roy-Chowdhury
- **Unsupervised Multi-source Domain Adaptation Without Access to Source Data** | **CVPR** 2021 *Oral*
  Sk. Miraj Ahmed*, *Dripta S. Raychaudhuri**, Sujoy Paul*, Samet Oymak, Amit K. Roy-Chowdhury
- **Learning Person Re-identification Models from Videos with Weak Supervision** | **IEEE TIP** 2021
  Xueping Wang, Min Liu, *Dripta S. Raychaudhuri*, Sujoy Paul, Yaonan Wang, Amit K. Roy-Chowdhury

- **Exploiting Temporal Coherence for Self-Supervised One-shot Video Re-identification** | **ECCV** 2020
  Dripta S. Raychaudhuri, Amit K. Roy-Chowdhury

Preprints/Under review

- **SCUDA: Source-Free Cross-Modal Unsupervised Domain Adaptation**
  Cody Simons, *Dripta S. Raychaudhuri*, Sk. Miraj Ahmed, Konstantinos Karydis, Amit K. Roy-Chowdhury
- **Learning Few-Shot Open-set Classifiers using Exemplar Reconstruction**
  Sayak Nag*, *Dripta S. Raychaudhuri**, Sujoy Paul, Amit K. Roy-Chowdhury
- **Channel masking for multivariate time series shapelets**
  Dripta S. Raychaudhuri, Josif Grabocka, Lars Schmidt-Thieme

Technical Skills

- **Programming Skills:** Python, Java, MATLAB
- **Deep Learning Frameworks:** PyTorch
- **Scientific Computing Libraries:** numpy, scipy, scikit-learn, matplotlib, opencv

Coursework

▪ Probabilistic Graphical Models ▪ Introduction to Deep Learning ▪ Advanced Computer Vision ▪ Machine Learning ▪ Information Theory ▪ Stochastic Processes ▪ State & Parameter Estimation Theory ▪ Convex Optimization ▪ Mathematical Methods in EE ▪ Sparse Signal Processing

Awards

- **Doctoral Consortium Award**, CVPR 2022
- **Dean's Distinguished Fellowship Award**, University of California, Riverside
- **DAAD-WISE Fellowship Award**

Professional Services

Reviewer of **CVPR, ICCV, ECCV, ICPR, IEEE TPAMI**.