

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: Adaptation for static and dynamic tasks

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 **NEC Laboratories, San Jose**, *Research Intern*.

- 2021 ◦ Mentors: Yumin Suh, Manmohan Chandraker
- Dynamic networks for multi-task learning

Jun–Sep **Mitsubishi Electric Research Laboratories, Cambridge**, *Research Intern*.

- 2020 ◦ Mentor: Jeroen van Baar
- Domain adaptive imitation learning

May–Jul **Universität Hildesheim**, *DAAD-WISE Scholar*.

- 2017 ◦ Mentors: Josif Grabocka, Lars Schmidt-Thieme
- Shapelet learning for multivariate time series

Teaching Experience

Apr–Jun **EE243: Advanced Computer Vision**, *Teaching Assistant*.

- 2021 ◦ 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 Schuster, 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

- **Dean's Distinguished Fellowship Award**, University of California, Riverside
- **DAAD-WISE Fellowship Award**

Professional Services

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