

Dripta S. Raychaudhuri

WCH 371, University of California
Riverside CA 92521

E-Mail: draychaudhuri@ece.ucr.edu
Phone: +1 (951) 807-4062
Webpage: <https://driptarc.github.io/>

RESEARCH INTERESTS	Computer Vision, Deep Learning, Reinforcement Learning My interests lie in the scope of reducing supervision in deep learning systems. Along these lines, my research includes few-shot target re-identification, domain adaptation and improving sample efficiency in deep reinforcement learning algorithms.	
EDUCATION	University of California , Riverside, CA, USA <i>PhD</i> , Electrical and Computer Engineering Advisor: Dr. Amit K. Roy-Chowdhury GPA: 3.97/4.0 Jadavpur University , Kolkata, WB, India <i>Bachelor of Engineering</i> , Electronics and Telecommunications Engineering Advisor: Dr. Ananda S. Chowdhury GPA: 9.37/10.00	Sept 2018 - Present Aug. 2014 - June 2018
EXPERIENCE	Research intern Mitsubishi Electric Research Laboratories (MERL) Advisor: Dr. Jeroen van Baar • Transfer learning of policies: Domain adaptive imitation learning.	June 2020 - Sep. 2020 Cambridge, MA, USA
	Graduate Student Researcher Video Computing Group (VCG) Advisor: Dr. Amit K. Roy-Chowdhury • Reducing supervision in visual recognition models – Cross-domain adaptation of policies using imitation learning – Few-shot/semi-supervised learning of re-identification models – Unsupervised domain adaptation	April 2019 - Present University of California, Riverside
	WISE Research Intern DAAD:German Academic Exchange Service Advisor: Dr. Dr. Lars Schmidt-Thieme • Channel masking for multivariate time series shapelets: Developed an algorithm for classifying multivariate time series via a shapelet learning scheme, using channel masks to automatically discount noisy channels.	May 2017 - July 2017 Universität Hildesheim
	Undergraduate Student Researcher Imaging, Vision & Pattern Recognition Group Advisor: Dr. Ananda S. Chowdhury • Segmentation of aortic vessels: Active contours for identification and segmentation of aortic media-adventitia from fetal ultrasound images.	Aug. 2017 - June 2018 Jadavpur University
PUBLICATIONS	• Raychaudhuri, D.S.* , Paul, S.*, van Baar, J. and Roy-Chowdhury, A.K., 2021. CROSS-DOMAIN IMITATION FROM OBSERVATIONS. <i>International Conference on Machine Learning (ICML)</i> , 2021 [Long presentation] (* equal contribution) • Ahmed, S.A.*, Raychaudhuri, D.S.* , Paul, S.*, Oymak, S. and Roy-Chowdhury, A.K., UNSUPERVISED MULTI-SOURCE DOMAIN ADAPTATION WITHOUT ACCESS TO SOURCE DATA. <i>IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)</i> , 2021 [Oral] (* equal contribution) • Wang, X., Paul, S., Raychaudhuri, D.S. , Liu, M., Wang, Y. and Roy-Chowdhury, A.K., LEARNING PERSON RE-IDENTIFICATION MODELS FROM VIDEOS WITH WEAK SUPERVISION. <i>IEEE Transactions on Image Processing (TIP)</i> , 2021	

	<ul style="list-style-type: none"> • Raychaudhuri, D.S. and Roy-Chowdhury, A.K., EXPLOITING TEMPORAL COHERENCE FOR SELF-SUPERVISED ONE-SHOT VIDEO RE-IDENTIFICATION. <i>European Conference on Computer Vision (ECCV)</i>, 2020
PREPRINT/IN SUBMISSION	<ul style="list-style-type: none"> • Nag, S.*, Raychaudhuri, D.S.*, Paul, S. and Roy-Chowdhury, A.K., 2021. LEARNING FEW-SHOT OPEN-SET CLASSIFIERS USING EXEMPLAR RECONSTRUCTION. (* denotes equal contribution) • Raychaudhuri, D.S., Grabocka, J. and Schmidt-Thieme, L., 2017. CHANNEL MASKING FOR MULTIVARIATE TIME SERIES SHAPELETS. arXiv preprint arXiv:1711.00812.
HONORS & AWARDS	<ul style="list-style-type: none"> • Dean's Distinguished Fellowship Award, University of California, Riverside • DAAD-WISE Fellowship Award, Research intern
GRADUATE COURSEWORK	<ul style="list-style-type: none"> • 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
COMPUTER SKILLS	Python, Java, PyTorch, Matlab, OpenCV, sklearn
PROFESSIONAL SERVICES	<ul style="list-style-type: none"> • Reviewer of ICPR, ICCV • Reviewer of TPAMI