Sujoy Paul

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RESEARCH INTERESTS

- Weakly & Self-Supervised Learning, Reinforcement Learning, Active Learning
- Activity Recognition and Forecasting, Scene Understanding, Video Description

EDUCATION

University of California, Riverside, CA, USA — Sept. 2015 - Sept 2020
PhD, Electrical and Computer Engineering
Advisor: Prof. Amit K. Roy-Chowdhury, **GPA**: 4.00/4.00

Jadavpur University, Kolkata, WB, India — Aug. 2011 - June 2015
Bachelor of Engineering, Electronics and Telecommunication Engineering
Advisor: Prof. Amit Konar, **GPA**: 9.26/10.00

EXPERIENCE

Research Intern — June 2019 - Sept 2019
NEC Laboratories America Inc. — San Jose, USA
Advisors: Yi-Hsuan Tsai, Samuel Schulter, Manmohan Chandraker
- **Domain Adaptation of Semantic Segmentation Models**

Research Intern — June 2018 - Sept 2018
Mitsubishi Electric Research Lab (MERL) — Boston, USA
Advisor: Jeroen van Baar
- **Learning from Demos:** Discovering subgoals from demos and using them in RL

Research Intern — June 2017 - Sept 2017
Microsoft Research — Bangalore, India
Advisor: Muthian Sivanthu
- **Self-Learning Camera**: Learning camera-wise event models from unlabeled videos

Graduate Student Researcher — April 2016 - Current
Video Computing Group (VCG) — University of California, Riverside
Advisor: Prof. Amit K. Roy-Chowdhury
- **Data Efficient and Scalable Learning of Visual Recognition Models**

- Weakly Supervised Spatio-Temporal Event Localization
- Unsupervised Spatio-Temporal Feature Learning
- Discovering New Categories in Continous Learning
- Exploiting Contextual Relationships in Active Learning

Teaching Assistant — Jan 2017 - March 2017
University of California, Riverside — University of California, Riverside
Instructor: Prof. A. I. Mourikis **Course:** EE146 Computer Vision
Duties: Holding lab sessions, office hours and grading.

Globalink Research Intern — May 2014 - Aug. 2014
Mitacs-Globalink — University of Victoria, British Columbia
Advisor: Prof. Panajotis Agathoklis
- **Multi-Exposure and Multi-Focus Image Fusion**: An algorithm based in the gradient domain with reconstruction using wavelet based method.

Undergraduate Student Researcher — Aug. 2014 - June 2015
Artificial Intelligence Lab. — Jadavpur University, Kolkata
Advisor: Prof. Amit Konar
- **Recognizing Human Intention from EEG Signal**: Learning to classify human intent to move from EEG data

SELECTED PUBLICATIONS (More on Scholar)

Journals

• M. Hasan†, **S. Paul**†, A. I. Mourikis, A. K. Roy-Chowdhury, (†first authors)"Context Aware Query Selection for Active Learning in Event Recognition", **TPAMI** 2018

• **S. Paul**, I. S. Sevcenco, P. Agathoklis, "Multi-exposure and Multi-focus Image Fusion in Gradient Domain", **JCSC** 2016

Conference

• **S. Paul**, Jeroen van Baar, A. K. Roy-Chowdhury, "Learning from Trajectories via Subgoal Discovery", **NeurIPS** 2019

• N. Mithun†, **S. Paul**†, A. K. Roy-Chowdhury, (†first authors) "Weakly Supervised Video Moment Retrieval From Text Queries", **CVPR** 2019

• **S. Paul**, S. Roy, and A. K. Roy-Chowdhury, "W-TALC: Weakly-supervised Temporal Activity Localization and Classification", **ECCV** 2018

• S. Roy, **S. Paul**, N. E. Young, A. K. Roy-Chowdhury, "Exploiting Transitivity for Learning Person Re-identification Models on a Budget", **CVPR** 2018

• **S. Paul**, S. Roy, A. K. Roy-Chowdhury, "Incorporating Scalability In Unsupervised Spatio-Temporal Feature Learning", **ICASSP** 2018

• **S. Paul**, J.H. Bappy, A. K. Roy-Chowdhury, "Non-Uniform Subset Selection for Active Learning in Structured Data", **CVPR** 2017

• J. H. Bappy, **S. Paul** and A. K. Roy-Chowdhury, "Online Adaptation for Joint Scene and Object Classification", **ECCV** 2016

HONORS AND AWARDS

• ICCV **Doctoral Consortium**, 2019 & NeurIPS **Travel Award**, 2019
• **Dissertation Year Program Fellowship**, University of California, Riverside
• **ICML 2019 & CVPR 2017 Student Volunteer Award**
• **Dean's Distinguished Fellowship Award**, University of California, Riverside
• **MITACS Globalink** Research Intern
• **Microsoft Internship Fellowship-2013**, Dept. of CSE, IIT, Kharagpur

COMPUTER SKILLS

Python, PyTorch, TensorFlow, Caffe, Matlab, C++

GRADUATE COURSES

• Probabilistic Graphical Models • Adv. Computer Vision • Adv. Robotics • Math. Methods for EE • State and Parameter Estimation Theory • Stochastic Processes • Information Theory • Linear Systems Theory • Adv. Digital Signal Processing

PROFESSIONAL SERVICES

• Reviewer of CVPR, ICCV, AAAI, ICIP
• Revewer of TPAMI, IJCV, TIP, CVIU, TCSVT