

Rohan Chandra

THIRD YEAR PH.D. STUDENT IN COMPUTER SCIENCE

✉ rohan@cs.umd.edu | 🏠 <http://rohanchandra30.github.io/> | 📧 rohanchandra30 | 📄 rohanchandra30 | 🎓 google scholar

Education

University of Maryland

PH.D. IN COMPUTER SCIENCE (ADVISOR: DINESH MANOCHA)

M.S. IN COMPUTER SCIENCE (ADVISOR: TOM GOLDSTEIN)

College Park, MD

2018 - Present

2016 - 2018

Delhi Technological University

B.TECH. IN ELECTRONICS ENGINEERING

New Delhi, India

2012 - 2016

Honors & Awards

2020 **Future Faculty Fellow,**

Clark School, UMD

2020 **Summer Research Fellowship,**

Grad. School, UMD

2018 **Quora Top Writer,** 861,000 views with 314 shares

Publications (See Google Scholar for full list)

SAfE: Self-Attention Based Unsupervised Road Safety Classification in Hazardous Environments

Under Review

DIVYA KOTHANDARAMAN, ROHAN CHANDRA, DINESH MANOCHA

(CVPR 2021)

StylePredict: Machine Theory of Mind for Human Driver Behavior From Trajectories

arXiv Preprint

ROHAN CHANDRA, ANIKET BERA, DINESH MANOCHA

(2020)

B-GAP: Behavior-Guided Action Prediction for Autonomous Navigation

Under Review

ANGELOS MAVROGIANNIS, ROHAN CHANDRA, DINESH MANOCHA

(ICRA 2021)

BoMuDA: Boundless Multi-Source Domain Adaptive Segmentation in Unconstrained Environments

Under Review

DIVYA KOTHANDARAMAN, ROHAN CHANDRA, DINESH MANOCHA

(AAAI 2021)

CMetric: A Driving Behavior Measure Using Centrality Functions

ROHAN CHANDRA, UTTARAN BHATTACHARYA, TRISHA MITTAL, ANIKET BERA, DINESH MANOCHA

IROS 2020

Forecasting Trajectory and Behavior of Road-Agents Using Spectral Clustering in Graph-LSTMs

ROHAN CHANDRA, TIANRUI GUAN, SRUJAN PANUGANTI, TRISHA MITTAL, UTTARAN BHATTACHARYA, ANIKET BERA, DINESH MANOCHA

RAL/IROS 2020

GraphRQI: Classifying Driver Behaviors Using Graph Spectrums

ROHAN CHANDRA, UTTARAN BHATTACHARYA, TRISHA MITTAL, XIAOYU LI, ANIKET BERA, DINESH MANOCHA

ICRA 2020

RoadTrack: Tracking Road Agents in Dense and Heterogeneous Environments

ROHAN CHANDRA, UTTARAN BHATTACHARYA, TANMAY RANDHAVANE, ANIKET BERA, AND DINESH MANOCHA

ICRA 2020

EmotiCon: Context-Aware Multimodal Emotion Recognition Using Frege's Principle

TRISHA MITTAL, POOJA GUHAN, UTTARAN BHATTACHARYA, ROHAN CHANDRA, ANIKET BERA, DINESH MANOCHA

CVPR 2020

Densecavoid: Real-time navigation in dense crowds using anticipatory behaviors

AJ SATHYAMOORTHY, JING LIANG, UTSAV PATEL, TIANRUI GUAN, ROHAN CHANDRA, DINESH MANOCHA

RAL/ICRA 2020

Emotions Don't Lie: A Deepfake Detection Method using Audio-Visual Affective Cues

TRISHA MITTAL, UTTARAN BHATTACHARYA, **ROHAN CHANDRA**, ANIKET BERA, DINESH MANOCHA

ACM Multimedia 2020

M3ER: Multiplicative Multimodal Emotion Recognition Using Facial, Textual, and Speech Cues

TRISHA MITTAL, UTTARAN BHATTACHARYA, **ROHAN CHANDRA**, ANIKET BERA, DINESH MANOCHA

AAAI 2020 (Oral)

STEP: Spatial Temporal Graph Convolutional Networks for Emotion Perception from Gaits

UTTARAN BHATTACHARYA, TRISHA MITTAL, **ROHAN CHANDRA**, TANMAY RANDHAVANE, ANIKET BERA, DINESH MANOCHA

AAAI 2020 (Spotlight)

Take an Emotion Walk: Perceiving Emotions from Gaits Using Hierarchical Attention Pooling and Affective Mapping

UTTARAN BHATTACHARYA, CHRISTIAN RONCAL, TRISHA MITTAL, **ROHAN CHANDRA**, ANIKET BERA, DINESH MANOCHA

ECCV 2020

RobustTP: End-to-End Trajectory Prediction for Heterogeneous Road-Agents in Dense Traffic with Noisy Sensor Inputs

ROHAN CHANDRA, UTTARAN BHATTACHARYA, CHRISTIAN RONCAL, ANIKET BERA, DINESH MANOCHA

CSCS 2019 (Oral)

DensePeds: Pedestrian Tracking in Dense Crowds Using Front-RVO and Sparse Features

ROHAN CHANDRA, UTTARAN BHATTACHARYA, ANIKET BERA, AND DINESH MANOCHA

IROS 2019

TraPHic: Predicting Trajectories of Road-Agents in Dense and Heterogeneous Traffic

ROHAN CHANDRA, UTTARAN BHATTACHARYA, ANIKET BERA, AND DINESH MANOCHA

CVPR 2019

Patents

System and method for Detecting Fabricated Videos

TRISHA MITTAL, UTTARAN BHATTACHARYA, **ROHAN CHANDRA**, ANIKET BERA, DINESH MANOCHA

[Application No. 63/107803](#)

October 2020

System and Method for Multimodal Emotion Recognition

TRISHA MITTAL, UTTARAN BHATTACHARYA, **ROHAN CHANDRA**, ANIKET BERA, DINESH MANOCHA

[Application No. 62/972456](#)

February 2020

Talks

2020 **Maryland Robotics Center**, Modeling Human Driver Behavior in Dense Urban Traffic Using Graph Theory

Teaching Experience

- 2018 **Teaching Assistant**, CMSC 250: Discrete Structures
- 2017 **Teaching Assistant**, CMSC 131 (Introduction to OOP in Java)
- 2016 **Teaching Assistant**, CMSC 417 (Computer Networks)

Skills

Programming Tools	Python (Comfortable), Matlab (Comfortable), LaTeX (Expert), Unix Shell Scripting (Comfortable)
Deep Learning	PyTorch (Comfortable), Tensorflow (Novice)
Video Editing/Design	Adobe Premiere Pro (Comfortable)
Web Design	HTML5 (Novice), Hugo (Novice), Jekyll (Novice), CSS (Novice)

Professional Service

2021 **Program Committee**, ICCV'21 Workshop on Multi-Agent Interaction and Relational Reasoning *Reviewer*
2018-now **Reviewer**, CVIU'18-'20, IJCAI'19, CoRL'19, CVPR'20-'21, AAAI'20-'21, ICRA'20-'21, IROS'19-'20, RAL'20-'21,
NeurIPS'20, ICLR'21, ICML'21, ICCV'21
2017-2019 **Graduate Admissions Committee**, UMD CS Department

Diversity and Inclusion

NYU AI School

Remote (COVID-19)

TEACHING ASSISTANT

January 2021

- Teaching basic machine learning and programming and discussing a career in machine learning research with students from underrepresented minorities.

AI4All

Remote (COVID-19)

SPEAKER

July 2020

- Gave a talk on Self-Driving cars and autonomous driving to high school students from underrepresented minorities.

Other Achievements

“Multiply by 9”

MAA *2016*

- Invented a simple math formula, published as a short article in The College Mathematics Journal by the Mathematics Association of America