

THIRD YEAR PH.D. STUDENT IN COMPUTER SCIENCE

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Education

University of Maryland College Park, MD

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

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

2018 - Present 2016 - 2018

Delhi Technological University

New Delhi, India

B.Tech. IN ELECTRONICS ENGINEERING

2012 - 2016

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)

Honors & Awards

Future Faculty Fellow,
 Summer Research Fellowship,
 Grad. School, UMD

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

Professional Service

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

2017-2019 **Committee Member**, UMD CS Graduate School Admissions

Internships _____

NVIDIA Remote (COVID-19)

Deep Learning Research Intern, Autonomous Driving

Summer 2021

Publications (See Google Scholar for full list)

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

Under Review
(CVPR 2021)

DIVYA KOTHANDARAMAN, ROHAN CHANDRA, DINESH MANOCHA

ROHAN CHANDRA, ANIKET BERA, DINESH MANOCHA

(CVFR 2021)

arXiv Preprint

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

(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

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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

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

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)

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.

Al4All 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