Rohan **Chandra**

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)   *2018 - Present*
M.S. IN COMPUTER SCIENCE (ADVISOR: TOM GOLDSTEIN)   *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

2020	**Future Faculty Fellow**,	*Clark School, UMD*
2020	**Summer Research Fellowship**,	*Grad. School, UMD*
2018	**Quora Top Writer**, $861,000$ views with 314 shares	

Professional Service

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
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*
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

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.

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