

Revant Teotia

rt2741@nyu.edu | [revantteotia.github.io](https://github.com/revantteotia) | linkedin.com/in/revantteotia

EDUCATION

NYU Courant Institute of Mathematical Sciences

Ph.D. in Computer Science

New York, NY

Sep 2023 -

Columbia University

M.S. in Computer Science

New York, NY

Sep 2021 - Dec 2022

Indian Institute Of Technology Kanpur

B.Tech. in Computer Science and Engineering

Kanpur, India

Jul 2013 - May 2017

PUBLICATIONS

- Affective Faces for Goal-Driven Dyadic Communication, [\[arXiv\]](#) [\[project page\]](#)
Scott Geng, **Revant Teotia**, Purva Tendulkar, Sachit Menon, Carl Vondrick,
In submission
- Doubly Right Object Recognition: A Why Prompt for Visual Rationales, [\[paper\]](#)
Chengzhi Mao, **Revant Teotia**, Amrutha Varshini Sundar, Sachit Menon, Junfeng Yang, Xin Wang, Carl Vondrick,
CVPR 2023
- COFAR: Commonsense and Factual Reasoning in Image Search, [\[paper\]](#) [\[project page\]](#)
Prajwal Gatti, Abhirama Penamakuri, **Revant Teotia**, Anand Mishra, Shubhashis Sengupta, Roshni Ramnani,
AACL-IJCNLP 2022
- Doubly Right Object Recognition, [\[paper\]](#)
Revant Teotia, Chengzhi Mao, Carl Vondrick,
ICML 2022 Workshop on Spurious Correlations, Invariance, and Stability (**Spotlight talk, among top-5 papers**)
- Finding Spuriously Correlated Visual Attributes, [\[paper\]](#)
Revant Teotia, Chengzhi Mao, Carl Vondrick,
ICML 2022 Workshop on Spurious Correlations, Invariance, and Stability
- Few-shot Visual Relationship Co-localization, [\[paper\]](#) [\[project page\]](#) [\[code\]](#)
Revant Teotia, Vaibhav Mishra, Mayank Maheshwari, Anand Mishra,
ICCV 2021
- Realtime Indoor Workout Analysis Using Machine Learning & Computer Vision, [\[paper\]](#)
Amit Nagarkoti, **Revant Teotia**, Amith K. Mahale, and Pankaj K. Das,
IEEE EMBC 2019

EXPERIENCE

Fair Labs, Meta AI

Visiting Researcher

New York, NY

Sep 2024 - Present

- Working on computer vision and machine learning problems.

Langone Radiology Department, New York University

PhD student researcher in Sumit Chopra's Lab

New York, NY

Sep 2023 - Present

- Working on developing machine learning techniques for Radiology applications.

Computer Science Department, Columbia University

Research Assistant in Carl Vondrick's group

New York, NY

Sep 2021 - Aug 2023

- Explainable models: making object recognition models explainable using object descriptions. Training visual prompt for large vision-language model CLIP to give right reasons for predictions.
- Social AI: Understanding human emotions, cultures and interactions from unlabeled videos. Using implicit social knowledge in large language model GPT-3 with vision-language model CLIP to model human interactions.

Indian Institute of Technology Jodhpur

Research Assistant in Anand Mishra's Vision, Language, and Learning Group (VL2G)

Jodhpur, India

Jul 2020 - Aug 2021

- Analyzed novel problem of Visual Relationship Co-localization and invented a meta-learning based optimization framework to solve it in a few-shot manner. Published in ICCV 2021. [\[paper\]](#)[\[project page\]](#)[\[code\]](#)
- Worked on incorporating commonsense and factual reasoning in image search using external knowledge sources. Published in ACL-IJCNLP 2022. [\[paper\]](#)[\[project page\]](#)

Samsung Research Institute

Senior Software Engineer, Samsung Health Team

Bangalore, India

Jul 2017 - Jul 2019

- Designed and developed the C++ modules of BLE/NFC communication between Samsung smartwatch and gym fitness equipments. Announced at CES2020 and enjoyed by millions of Samsung Galaxy series 2020 smartwatch users. [\[news\]](#)
- Created a home workout video analysis system using CNN-based human pose-estimation, Optical Flow and Dynamic Time Warping algorithm. Published in IEEE EMBC 2019. [\[paper\]](#)