

# ANKAN BANSAL

Applied Scientist, Amazon AWS AI

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## CURRENT RESEARCH INTERESTS

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Multi-modal Learning, Vision and Language

## EDUCATION

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**Doctorate (PhD), Electrical and Computer Engineering** *July 2020*

University of Maryland, College Park, MD, USA

**Advisor:** Rama Chellappa

**Master of Science (MS), Electrical and Computer Engineering** *July 2019*

University of Maryland, College Park, MD, USA

**Advisor:** Rama Chellappa

**Master of Technology (M.Tech.), Electrical Engineering** *June 2015*

Indian Institute of Technology, Kanpur, India

**Bachelor of Technology (B.Tech.), Electrical Engineering** *June 2015*

Indian Institute of Technology, Kanpur, India

## SELECT PUBLICATIONS AND PATENTS

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### Pose and Joint-Aware Action Recognition

Anshul Shah, Shlok Mishra, *Ankan Bansal*, Jun-Cheng Chen, Rama Chellappa, Abhinav Shrivastava

WACV 2022, [link](#)

### Object-Aware Cropping for Self-Supervised Learning

Shlok Mishra, Anshul Shah, *Ankan Bansal*, Abhyuday Jagannatha, Abhishek Sharma, David Jacobs, Dilip Krishnan

Arxiv Pre-print [link](#)

### Learning Visual Representations for Transfer Learning by Suppressing Texture

Shlok Mishra, Anshul Shah, *Ankan Bansal*, Jonghyun Choi, Abhinav Shrivastava, Abhishek Sharma, David Jacobs

Arxiv Pre-print [link](#)

### Zero-shot Object Detection

Karan Sikka, Ajay Divakaran, *Ankan Bansal*

US Patent 11,055,555, 2021, [link](#)

### Deep CNN Face Recognition: Looking at the Past and the Future

*Ankan Bansal*, Rajeev Ranjan, Carlos D Castillo, Rama Chellappa

Deep Learning-Based Face Analytics, 2021, [link](#)

### Visual Question Answering on Image Sets

*Ankan Bansal*, Yuting Zhang, Rama Chellappa

European Conference on Computer Vision (ECCV), 2020, [link](#)

### Spatial Priming for Detecting Human-Object Interactions

*Ankan Bansal*, Sai Saketh Rambhatla, Abhinav Shrivastava, Rama Chellappa

Arxiv Pre-print [link](#)

### Deep CNN-Based Face Recognition

*Ankan Bansal*, Rajeev Ranjan, Carlos D Castillo, Rama Chellappa

Computer Vision: A Reference Guide, 2020, [link](#)

### How are attributes expressed in face DCNNs?

Prithviraj Dhar, *Ankan Bansal*, Carlos D. Castillo, Joshua Gleason, P. Jonathon Phillips, Rama Chellappa

IEEE International Conference on Automatic Face & Gesture Recognition (FG), 2020, [link](#)

## Detecting Human-Object Interactions via Functional Generalization

Ankan Bansal, Sai Saketh Rambhatla, Abhinav Shrivastava, Rama Chellappa

Thirty-Fourth AAAI Conference on Artificial Intelligence, 2020, [link](#)

## A Fast and Accurate System for Face Detection, Identification, and Verification

Rajeev Ranjan, Ankan Bansal, Jingxiao Zheng, Hongyu Xu, Joshua Gleason, Boyu Lu, Anirudh Nanduri, Jun-Cheng Chen, Carlos D. Castillo, Rama Chellappa

IEEE Transactions on Biometrics, Behavior, and Identity Science (T-BIOM), 2019, [link](#)

## Zero-Shot Object Detection

Ankan Bansal, Karan Sikka, Gaurav Sharma, Rama Chellappa, Ajay Divakaran

European Conference on Computer Vision (ECCV), 2018, [link](#)

## Deep Features for Recognizing Disguised Faces in the Wild

Ankan Bansal, Rajeev Ranjan, Carlos D. Castillo, Rama Chellappa

IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2018, [link](#)

## Deep Learning for Understanding Faces

Rajeev Ranjan, Swami Sankaranarayanan, Ankan Bansal, Navaneeth Bodla, Jun-Cheng Chen, Vishal M. Patel, Carlos D. Castillo, Rama Chellappa

IEEE Signal Processing Magazine, 2017, [link](#)

## The Do's and Don'ts for CNN-based Face Verification

Ankan Bansal, Carlos Castillo, Rajeev Ranjan, Rama Chellappa

International Conference on Computer Vision (ICCV) Workshops, 2017, [link](#)

## UMDFaces: An Annotated Face Dataset for Training Deep Networks

Ankan Bansal, Anirudh Nanduri, Carlos Castillo, Rajeev Ranjan, Rama Chellappa

International Joint Conference on Biometrics (IJCB), 2017, [link](#)

## INTERNSHIPS

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Salesforce Einstein AI, Palo Alto, USA

September 2019 - November 2019

Amazon AWS AI, Pasadena, USA

May 2019 - August 2019

Amazon AWS Deep Learning, Seattle, USA

May 2018 - August 2018

SRI International, Princeton, USA

May 2017 - August 2017

## HONORS AND AWARDS

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- Jacob K. Goldhaber Travel Grant, University of Maryland, 2017
- Clark School of Engineering Distinguished Graduate Fellowship, University of Maryland, 2015-2016
- MCM Scholarship, IIT Kanpur, 2010-2014
- National Talent Search Examination (NTSE) scholarship by Government of India, 2008-2010
- Science Student Award by State Government of Uttar Pradesh, 2008

## SKILLS

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**Programming Languages and Libraries:** Python, PyTorch, Tensorflow, Caffe

**Human Languages:** Hindi (native), English, Spanish (beginner)

## SERVICE

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**Reviewer** for CV and ML conferences (CVPR, ICLR, etc.), and journals (IJCV, TIP, etc.)

**Coordinator, Quiz Events**, Antaragni 2012 (inter-collegiate cultural festival of IIT Kanpur)

**Coordinator, Crypto**, Techkriti 2012 (inter-collegiate technical festival of IIT Kanpur)

**Student Guide and Link Student**, Counselling Service, IIT Kanpur, 2011-2012

## OTHER INTERESTS

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I [read](#). I [write](#). I [quiz](#).