Arjun **Chandrasekaran**

 ${\tt Computer \, Vision \, \cdot \, Natural \, Language \, Processing \, \cdot \, Human \, Behavior \, \cdot \, Virtual \, Human \, Avatars}$

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Education _

Georgia Tech Atlanta, GA, USA

PHD IN COMPUTER SCIENCE (ADVISOR: DEVI PARIKH)

Jan. 2017 - Dec. 2019

Dissertation: Towards natural Human-Al interactions in Vision and Language

Virginia Tech (transferred to Georgia Tech)

PHD IN COMPUTER ENGINEERING (Advisor: Devi Parikh)

Aug. 2014 - Dec. 2016

• Research on computational models for visual humor and temporal common sense.

Bangalore Institute of Technology

Bangalore, India Sep. 2009 - Mar. 2013

Blacksburg, VA, USA

B. Eng. in Electronics and Communication Engineering

• Design and implementation of a VLSI based video decoder based on the H.264 video encoding standard.

Employment _____

Max Planck Institute for Intelligent Systems

Tübingen, Germany.

POSTDOCTORAL RESEARCHER, WITH MICHAEL BLACK

Jan. 2020 - Now

• Modeling the semantics of human movement – human actions, interactions, and emotions.

Robert Bosch (RBEI)

Bangalore, India

ASSOCIATE SOFTWARE ENGINEER, COMPUTER VISION TEAM

Aug. 2013 - July 2014

• Testing driver assistance functions like lane detection, road sign recognition, pedestrian detection, etc. on a camera ECU.

Visiting Positions _

Indiana University

Bloomington, USA

VISITING SCHOLAR, WITH CHEN YU AND DAVID CRANDALL

Summer 2019

• Modeling child learning from parent-child interactions captured via head-mounted cameras and parent speech.

CurAl Palo Alto, USA

RESEARCH INTERN, WITH ANITHA KANNAN

Summer 2018

• Question Answering in medical domain and Information Extraction to build a Knowledge Graph.

Facebook AI Research

Menlo Park, USA

RESEARCH INTERN, WITH DEVI PARIKH

Summer 2017

• Modeling aspects of personality from reddit data.

Toyota Technological Institute

Chicago, USA

RESEARCH INTERN, WITH MOHIT BANSAL

Summer 2016

 $\bullet \ \ \text{Modeling "temporal common sense" in every day events, and generating witty image captions.}$

Sahyogee Tech Solutions

Bangalore, India

Engineering Intern, with Anand Udupa

Summer 2012

Designing and testing analog circuits using the (then) newly developed Verilog AMS (Analog and Mixed Mode).

How Much Coffee Was Consumed During EMNLP 2019? Fermi Problems: A New Reasoning Challenge for AI Conference on Empirical Methods in Natural Language Processing A. Kalyan, A. Kumar, A. Chandrasekaran, A. Sabharwal, P. Clark BABEL: Bodies, Action and Behavior with English Labels IEEE/CVF Conference on Computer Vision and Pattern Recognition A. R. Punnakkal*, A. Chandrasekaran*, N. Athanasiou, A. Quiros-Ramirez, M. J. Black Active domain adaptation via clustering uncertainty-weighted embeddings IEEE/CVF International Conference on Computer Vision	EMNLP Nov. 2021 CVPR	
		June 2021
		ICCV
	Oct. 2023	
	V. Prabhu, A. Chandrasekaran , K. Saenko, J. Hoffman	
	A computational model of early word learning from the infant's point of view	CogSc
	Annual Conference of the Cognitive Science Society	July 2020
S. Tsutsui, A. Chandrasekaran , M. A. Reza, D. Crandall, C. Yu		
Do explanation modalities make VQA models more predictable to a human?	EMNLF	
Conference on Empirical Methods in Natural Language Processing	Nov. 2018	
A. Chandrasekaran *, V. Prabhu*, D. Yadav*, P. Chattopadhyay*, D. Parikh		
Punny Captions: Witty Wordplay in Image Descriptions	NAACL	
NORTH AMERICAN CHAPTER OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS	June 2018	
A. Chandrasekaran , D. Parikh, M. Bansal		
Evaluating Visual Conversational Agents via Cooperative Human-Al Games	HCOMF	
Conference on Human Computation and Crowdsourcing	Oct. 2017	
P. Chattopadhyay, D. Yadav, V. Prabhu, A. Chandrasekaran , A. Das, S. Lee, D. Batra, D. Parikh		
SortStory: Sorting Jumbled Images and Captions into Stories	EMNLF	
Empirical Methods in Natural Language Processing	Nov. 2016	
H. Agrawal*, A. Chandrasekaran *, D. Batra, D. Parikh, M. Bansal		
We Are Humor Beings: Understanding and Predicting Visual Humor	CVPR	
IEEE CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION	July 2016	
A. Chandrasekaran , A. K. Vijayakumar, S. Antol, M. Bansal, D. Batra, C. L. Zitnick, D. Parikh		
* Denotes equal contribution.		
Preprints		
LocATe: End-to-end Localization of Actions in 3D with Transformers		
IN SUBMISSION	2022	
J. Sun, B. Zhou, M. J. Black, A. Chandrasekaran		
It takes Two to Tango: Towards Theory of AI's Mind		
ArXıv	Apr. 2017	
A. Chandrasekaran *, D. Yadav*, P. Chattopadhyay*, V. Prabhu*, D. Parikh		
Awards		
Reviewing		
2021 Outstanding reviewer , Computer Vision and Pattern Recognition (CVPR).	Virtual conference	
2018 Outstanding reviewer , Neural Information Processing Systems (NeurIPS).	Montreal, Canado	

Talks

- 'Talk & Talk' seminar series at MPI for Intelligent Systems, Tübingen, Germany (remote talk). 2021.
- Mercedes-Daimler Research, Bangalore, India (remote talk). 2021.
- Perceiving Systems Dept. at MPI for Intelligent Systems, Tübingen, Germany. 2019.
- Dept. of Psychological and Brain Sciences, Indiana University, Bloomington, USA. 2019.
- · Laboratory of Sensorimotor Research, National Institutes for Health (NIH), Bethesda, USA. 2019.
- Invited talk at the 'Vision and Language' course at Georgia Tech, Atlanta, USA. 2018.
- Institute for Critical Technology and Applied Science (ICTAS) seminar series at Virginia Tech, Blacksburg, USA. 2017.
- Mid-Atlantic Computer Vision (MACV) Workshop at Johns Hopkins University, Baltimore, USA. 2017.
- CVPR Spotlight talk (on Visual Humor) at Las Vegas, USA. 2016.

Reviewing _

- **2022** CVPR, ICRA
- 2021 CVPR, NeurIPS, AAAI
- **2020** ICRA, CogSci
- 2019 ICML, NAACL, NCVPRIPG (India)
- 2018 CVPR, ICML
- **2017** CVPR, NIPS

Advising _

Current

- Nikos Athanasiou co-advised with Michael Black (PhD candidate at MPI for Intelligent Systems).
- Darsh Kaushik. Intern (B. Tech. at NIT Silchar, India).

Past

- Jiankai Sun. Intern (MS at Chinese University of Hong Kong).
- Mayank Lunayach. Intern (B. Tech. at IIT Kanpur, India → MS at Georgia Tech).

Teaching

CS 4476: Introduction to Computer Vision.

Georgia Tech

HEAD TEACHING ASSISTANT. INSTRUCTOR: DEVI PARIKH.

Fall 2018

CS 8803: Computer Vision and Language

Georgia Tech

TEACHING ASSISTANT. INSTRUCTOR: DEVI PARIKH.

Fall 2017