

Arjun Chandrasekaran

COMPUTER VISION · NATURAL LANGUAGE PROCESSING · MACHINE LEARNING · COGNITIVE SCIENCE
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Publications

Do explanation modalities make VQA models more predictable to a human?

EMNLP (CONFERENCE ON EMPIRICAL METHODS IN NATURAL LANGUAGE PROCESSING)

Nov. 2018

- We find that humans better understand an AI with familiarity. Surprisingly, access to its internal states doesn't improve understanding.

Punny Captions: Witty Wordplay in Image Descriptions

NAACL HLT (NORTH AMERICAN CHAPTER OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS)

June 2018

- We employ puns to produce witty descriptions of an image, inspired by a cognitive account of humor appreciation.

Evaluating Visual Conversational Agents via Cooperative Human-AI Games

HCOMP (CONFERENCE ON HUMAN COMPUTATION AND CROWDSOURCING)

Oct. 2017

- We propose that the performance of human-AI teams is important to benchmark progress in AI.

SortStory: Sorting Jumbled Images and Captions into Stories

EMNLP (EMPIRICAL METHODS IN NATURAL LANGUAGE PROCESSING)

Nov. 2016

- We train different models to learn *temporal common sense*, i.e., the typical temporal sequence of events in the world.

We Are Humor Beings: Understanding and Predicting Visual Humor

CVPR (CONFERENCE IN COMPUTER VISION AND PATTERN RECOGNITION)

July 2016

- Given abstract scenes, we train models that rate their funniness and make them funnier.

Education

Georgia Tech

Atlanta, GA, USA

PH.D IN COMPUTER SCIENCE

Jan. 2017 - Dec. 2019

- Research towards natural human-AI interaction in vision and language modalities.

Virginia Tech

Blacksburg, VA, USA

PH.D IN COMPUTER ENGINEERING

Aug. 2014 - Dec. 2016

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

Bangalore Institute of Technology

Bangalore, India

B.E IN ELECTRONICS AND COMMUNICATION ENGINEERING

Sep. 2009 - Mar. 2013

- Designed and implemented a VLSI based video decoder based on the H.264 video encoding standard.

Work Experience

Indiana University

Bloomington, USA

VISITING SCHOLAR, COLLABORATION WITH CHEN YU

May 2019 - Aug. 2019

- Learning from natural interactions – modeled parent-child interactions from head-mounted ego-centric cameras and parent speech.

CurAI

Palo Alto, USA

RESEARCH INTERN, ADVISED BY ANITHA KANNAN

May 2018 - Aug. 2018

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

Facebook AI Research

Menlo Park, USA

RESEARCH INTERN, ADVISED BY DEVI PARIKH, DHARUV BATRA AND MICHAEL LEWIS

May 2017 - July 2017

- Modeling aspects of personality from reddit data.

Toyota Technological Institute

RESEARCH INTERN, ADVISED BY PROF. MOHIT BANSAL

- Modeling “temporal common sense”, and generating witty image captions.

*Chicago, USA**June 2016 - Aug. 2016***Robert Bosch (RBEI)**

ASSOCIATE SOFTWARE ENGINEER, COMPUTER VISION TEAM

- Tested functions on a camera ECU for driver assistance functions like lane detection, road sign recognition, pedestrian detection, etc.

*Bangalore, India**Aug. 2013 - July 2014***Sahyogee Tech Solutions**

ENGINEERING INTERN

- Designed and tested analog circuits using the newly developed Verilog AMS (Analog and Mixed Mode).

*Bangalore, India**Jun. 2012 - Aug. 2012*