jun **Chandrasekaran**

ARTIFICIAL INTELLIGENCE · MACHINE LEARNING · COMPUTER VISION · NATURAL LANGUAGE PROCESSING Darmstädter Strasse 5, Munich 80992, Germany.

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Employment

Conxai Technologies GmbH

SENIOR AI SCIENTIST

- · Formulating and executing AI strategies that create competitive advantages and maximise value to customers.
- Architecting AI stacks to enable different use-cases in the AEC (Architecture, Engineering and Construction) industry.
- Leading an AI team of 8 members (3 full-time ML engineers and 4 interns) spread across 2 time-zones.

Max Planck Institute for Intelligent Systems

Postdoctoral Researcher, with Michael Black

• Modeling the semantics of human actions by correlating the movements of 3D human avatars with language descriptions.

Robert Bosch (RBEI)

Associate Software Engineer, Computer Vision Team

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

Education

Georgia Tech РнD ім Сомритек Science (Advisor: Devi Ракікн) Dissertation: Towards natural Human-Al interactions in Vision and Language	Atlanta, GA, USA Jan. 2017 - Dec. 2019
Virginia Tech (transferred to Georgia Tech) РнD IN Сомритек Engineering (Advisor: Devi Pariкн) • Research on computational models for visual humor and temporal common sense.	Blacksburg, VA, USA Aug. 2014 - Dec. 2016
Bangalore Institute of Technology B. ENG. IN ELECTRONICS AND COMMUNICATION ENGINEERING • Design and implementation of a VLSI based video decoder based on the H.264 video encoding standard.	Bangalore, India Sep. 2009 - Mar. 2013

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

• Modeling aspects of personality from reddit data.

Toyota Technological Institute RESEARCH INTERN, WITH MOHIT BANSAL

• Modeling "temporal common sense" in everyday events, and generating witty image captions.

Munich, Germany. July 2023 - Now

Tübingen, Germany. Jan. 2020 - June 2023

Bangalore, India Aug. 2013 - July 2014

Summer 2017

Chicago, USA Summer 2016

Sahyogee Tech Solutions

Engineering Intern, with Anand Udupa

Publications _____

LocATe: End-to-end Localization of Actions in 3D with Transformers	
ArXiv J. Sun, B. Zhou, M. J. Black, A. Chandrasekaran	Mar. 2022
How Much Coffee Was Consumed During EMNLP 2019? Fermi Problems: A New Reasoning Challenge for AI	EMNLP
Conference on Empirical Methods in Natural Language Processing	Nov. 2021
A. Kalyan, A. Kumar, A. Chandrasekaran , A. Sabharwal, P. Clark	
BABEL: Bodies, Action and Behavior with English Labels	CVPR
IEEE/CVF Conference on Computer Vision and Pattern Recognition	June 2021
A. R. Punnakkal*, A. Chandrasekaran *, N. Athanasiou, A. Quiros-Ramirez, M. J. Black	
Active domain adaptation via clustering uncertainty-weighted embeddings	ICCV
IEEE/CVF INTERNATIONAL CONFERENCE ON COMPUTER VISION	Oct. 2021
V. Prabhu, A. Chandrasekaran , K. Saenko, J. Hoffman	
A computational model of early word learning from the infant's point of view	CogSci
Annual Conference of the Cognitive Science Society S. Tsutsui, A. Chandrasekaran , M. A. Reza, D. Crandall, C. Yu	July 2020
Do explanation modalities make VQA models more predictable to a human?	EMNLP
CONFERENCE ON EMPIRICAL METHODS IN NATURAL LANGUAGE PROCESSING A. Chandrasekaran*, V. Prabhu*, D. Yadav*, P. Chattopadhyay*, D. Parikh	Nov. 2018
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	
It takes Two to Tango: Towards Theory of Al's Mind	CVPR Workshop
ChaLearn Looking at People Workshop, CVPR	Apr. 2017
A. Chandrasekaran*, D. Yadav*, P. Chattopadhyay*, V. Prabhu*, D. Parikh	
Evaluating Visual Conversational Agents via Cooperative Human-AI Games	HCOMP
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	EMNLP
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 A. Chandrasekaran, A. K. Vijayakumar, S. Antol, M. Bansal, D. Batra, C. L. Zitnick, D. Parikh	July 2016
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* Denotes equal contribution.

Skills _____

Programming	Python (Pandas, PyTorch, NumPy, Scikit-learn), Matlab, C/C++, HTML/CSS, JavaScript.
Miscellaneous	Linux, Git, LaTex, Microsoft Office.
Soft Skills	Time Management, Teamwork, Problem-solving, Documentation, Presentation.
Languages	English, Hindi, Tamil, Kannada.

Awards

2021 **Outstanding reviewer**, Computer Vision and Pattern Recognition (CVPR).

2018 **Outstanding reviewer**, Neural Information Processing Systems (NeurIPS).

Virtual conference Montreal, Canada

Talks _

- 'Grounding language in 3D human movement', Amazon AWS (remote talk). 2022.
- 'Grounding language in 3D human movement', NEON, Samsung Research America (remote talk). 2022.
- 'Multi-modal computational humor', (virtual) meeting on Computational Humor, Amazon. 2022.
- '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, ECCV, NeurIPS
- 2021 CVPR, NeurIPS, AAAI
- 2020 ICRA, CogSci, ECCV, NeurIPS
- 2019 ICML, NAACL, NCVPRIPG (India)
- 2018 CVPR, ICML, TPAMI
- 2017 CVPR, NIPS

Advising _____

Current

- Darsh Kaushik. Intern (B. Tech. at NIT Silchar, India).
- Leyre Sánchez Viñuela. Intern (MA in Computational Linguistics at University of Tübingen).

Past

- Jiankai Sun. Intern (MS at Chinese University of Hong Kong \rightarrow PhD at Stanford University).
- Taylor McConnell. Intern (MA in Computational Linguistics at University of Tübingen \rightarrow MPI for Intelligent Systems).
- Mayank Lunayach. Intern (B. Tech. at IIT Kanpur, India \rightarrow MS at Georgia Tech).

Teaching _

CS 4476: Introduction to Computer Vision.

Head Teaching Assistant. Instructor: Devi Parikh.

CS 8803: Computer Vision and Language

TEACHING ASSISTANT. INSTRUCTOR: DEVI PARIKH.

Georgia Tech Fall 2018

Georgia Tech Fall 2017