

DR. KHYATHI RAGHAVI CHANDU

Research Scientist & Visiting Professor

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EDUCATION

2021	Carnegie Mellon University, PhD in Language Technologies
2018	Carnegie Mellon University, Masters in Language Technologies
2016	IIIT-H, Bachelors in Computer Science

WORK EXPERIENCE

AI2	Research Scientist, Jio Institute	➤ Multimodality, LLM training, LLM Evaluation, Distillation, Instruction-tuning, Uncertainty modeling, Agents
	Visiting Professor, Meta AI	➤ Designed and taught a post-graduate course on LLMs and Beyond for Deep Learning for NLP ➤ Course Curriculum Research Scientist, FEB 2022 - JAN 2023
Meta AI	Research Intern, MAY 2021 - AUGUST 2021	➤ Multimodal Conversational AI
Google Research	Research Intern, MAY 2020 - AUGUST 2020	➤ Weak Supervision of content selection for better Controllability in Image Captioning
Apple	Research Intern, MAY 2019 - AUGUST 2019	➤ Transfer Learning for Code-Switched Named Entity Recognition
Univ. of Pennsylvania	Research Intern, MAY 2015 - AUGUST 2015	➤ Converting unstructured medical abstracts to structured abstracts.

TALKS

Netflix	Invited Talk, JULY 2024
Allen Institute for AI	Invited Talk, AUG 2022 ➤ Topic : Anchoring Multiview Narrative Generation
Univ of Utah	Colloquium Talk, APRIL 2022 ➤ Topic : Multiview Narrative Generation Link
Univ of Pittsburgh	Guest Lecture in Introduction to NLP, DEC 2021 ➤ Topic : Grounding and Multimodality Link
Microsoft Research	Talk, MAY 2021 ➤ Topic : Multimodal Narrative Intelligence
Google	PhD Intern Research Conference, JULY 2020 ➤ Topic : Towards effective controllability of multimodal narrative generation
WiNLP at ACL'20	Closing Remarks from organizers, JULY 2020 ➤ Topic : Progress of Widening NLP and lessons learnt from virtual workshop
CMU	LTI Summer Seminar Series, JULY 2020 ➤ Topic : Components of Neural Text Generation Link Details
CMU	Guest Lecture in Neural Networks for NLP, APRIL 2020 ➤ Topic : Natural Language Generation Link Youtube Link
CMU	Guest Lecture in Introduction to NLP, APRIL 2020 & MAY 2021 ➤ Topic : Natural Language Generation
Facebook	Invited Research Talk, OCTOBER 2019 ➤ Topic : Multimodal Narrative Intelligence
Apple	Guest Talk, AUGUST 2019 ➤ Topic : Visual Story and Storyboard Generation
Univ of West Scotland	Invited Talk, APRIL 2021 ➤ Topic : Content Anchoring In Multimodal Texts : A Prequel with PhD advice

Organizer	<ul style="list-style-type: none"> ➤ Workshop on Narrative Understanding at EMNLP 2024 ➤ Workshop on Novel Ideas in Learning-to-Learn through Interaction at EMNLP 2023  [link] ➤ Workshop on 'Generation, Evaluation, and Metrics' at EMNLP 2023  [link] ➤ Workshop on Narrative Understanding at NAACL 2023  [link] ➤ Workshop on 'Generation, Evaluation, and Metrics' at EMNLP 2022  [link] ➤ Workshop on Narrative Understanding at NAACL 2022  [link] ➤ Widening NLP Workshop at EMNLP 2021  [link] ➤ Widening NLP at ACL 2020  [link]
Co-chair	<ul style="list-style-type: none"> ➤ CMU LTI Open House Poster Session 2019
Area Chair	<ul style="list-style-type: none"> ➤ Doctoral Symposium at AIMLSystems  [link] ➤ Academic Inclusion, Diversity & Inclusion at ACL 2020, ACL 2021, NAACL 2022,  [link]
Panel Moderator	<ul style="list-style-type: none"> ➤ Neurips 2024, COLM 2024, ACL ARR Feb 2024, Apr 2024, June 2024, ➤ Generation and Summarization track at ACL 2023
PC Member	<ul style="list-style-type: none"> ➤ EACL 2021 (Topic : Low resource languages)  [link] ➤ WiNLP Satellite event at ACL 2020 (Topic : Social Biases and Future of NLP)  [link] ➤ Academic Inclusion at ACL 2020
Conference Reviewer	<ul style="list-style-type: none"> ➤ Humanizing AI at IJCAI 2019 and 2018,  [link]
Workshop Reviewer	<ul style="list-style-type: none"> ➤ Neurips 2023, AAAI 2023, EMNLP 2022, COLING 2022, NAACL 2022, EMNLP 2021, EMNLP 2020, ACL 2020 (Outstanding reviewer), EACL 2021, COLING 2020, ACL 2020, EACL 2020, AAAI 2020, ACL 2019, AAAI 2019, NAACL 2018; GenChal Proposals at INLG 2022
Journal Reviewer	<ul style="list-style-type: none"> ➤ GEM 2021, CALCS-NAACL'21, ALVR-ACL 2020, SRW-ACL 2020, WiNLP-ACL 2020, CALCS-ACL 2018, Code-Switching Workshop-Interspeech 2020
Editor	<ul style="list-style-type: none"> ➤ JAIR 2022, TALLIP 2020 ➤ ML @ CMU Blog  [link]

ACADEMIC HONORS & AWARDS

- **Amazon Simbot Challenge** : Our team was among the 10 university teams to be selected to take part in the Simbot Challenge.
- **Rising Stars EECS 2020** : Selected and invited to Rising Stars 2020 at UC Berkeley  [\[link\]](#)
- **Shortlisted** and Nominated for **Apple Fellowship** 2020
- **Winners of BioAsq Challenge** : in the sixth edition of BioAsq Challenge  [\[link\]](#)
- **CMU LTI Graduate Fellowship** : Fully funded covering tuition, travel expenses & monthly stipend.
- **Amazon Alexa Prize Sponsorship** : Our team was amongst 12 others around the world to be awarded 100,000\$ stipend by Amazon to compete in the Alexa Prize.
- **ISCA Grant** : The grant includes 1-year ISCA membership and cash amount to support travel costs.
- **S.N. Bose Scholarship 2015** : Awarded to top 1.5% students at national level to carry out summer research internship in the US.  [\[link\]](#)
- **Dean's Research Award -IIIT-H 2015** : Awarded for undergraduate students actively pursuing research.
- **Deans' Academic Merit List** : Received in Fall 2011, Spring 2012, Fall 2013, Spring 2014 in IIIT-H.
- **Best All Rounder Student IIIT-H 2015** : Awarded for consistent involvement and all round contributions in academics and extra-curricular activities.
- **Best Project in IISc Summer School** (2nd place)
- **Best Sports Woman - IIIT-H** : For 3 consecutive academic years 2012, 2013, 2014.
- **Best Outgoing Student** : Awarded in Sanghamitra School for all round performance.

RECENT PUBLICATIONS (2023-2024)

Conferences

- *Certainly Uncertain : A Benchmark and Metric for Multimodal Epistemic and Aleatoric Awareness* (under review)  [\[paper\]](#)
- *DataComp-LM : In search of the next generation of training sets for language models* (under review)  [\[paper\]](#)
- *The Art of Saying No : Contextual Noncompliance in Language Models* (under review)  [\[paper\]](#)
- *WildBench : Benchmarking LLMs with Challenging Tasks from Real Users in the Wild* (under review)  [\[paper\]](#)
- *WildHallucinations : Evaluating Long-form Factuality in LLMs with Real-World Entity Queries* (under review)
- *Rewardbench : Evaluating reward models for language modeling* (under review)  [\[paper\]](#)
- *L3GO : Language Agents with Chain-of-3D-Thoughts for Generating Unconventional Objects* (under review)  [\[paper\]](#)
- *OLMO : Accelerating the Science of Language Models* (**ACL 2024**)  [\[paper\]](#)
- *Dolma : An open corpus of three trillion tokens for language model pretraining research* (**ACL 2024**)  [\[paper\]](#)
- *The unlocking spell on base llms : Rethinking alignment via in-context learning* (**ICLR 2024**)  [\[paper\]](#)
- *The Generative AI Paradox: "What It Can Create, It May Not Understand"* (**ICLR 2024**)  [\[paper\]](#)
- *Lumos : Learning agents with unified data, modular design, and open-source llms* (**ACL Findings 2024**)  [\[paper\]](#)
- *Deal, or no deal (or who knows)? Forecasting Uncertainty in Conversations using Large Language Models* (**ACL Findings 2024**)  [\[paper\]](#)
- *Selective" Selective Prediction" : Reducing Unnecessary Abstention in Vision-Language Reasoning* (**ACL Findings 2024**)  [\[paper\]](#)
- *On the Role of Summary Content Units in Text Summarization Evaluation* (**NAACL 2024**)  [\[paper\]](#)
- *How Far Can Camels Go? Exploring the State of Instruction Tuning on Open Resources* (**NeurIPS 2023**)  [\[paper\]](#)
- *NovaCOMET : Open Commonsense Foundation Models with Symbolic Knowledge Distillation* (**EMNLP Findings 2023**)  [\[paper\]](#)
- *Localized Symbolic Knowledge Distillation for Visual Commonsense Models* (**NeurIPS 2023**)  [\[paper\]](#)
- *LOWRECORP : the Low-Resource NLG Corpus Building Challenge* (**INLG 2023**)
- *Maximizing Task Consistency Improves Continual Learning for Dialogue State Tracking* (**EMNLP 2023**)
- *A Needle in a Haystack : An Analysis of High-Agreement Workers on MTurk for Summarization* (**ACL 2023**)
- *Inference-Time Policy Adapters (IPA) : Tailoring Extreme-Scale LMs without Fine-tuning* (**EMNLP 2023**)
- *NovaCOMET : Open Commonsense Foundation Models with Symbolic Knowledge Distillation* (**EMNLP 2023**)
- *Curriculum Script Distillation for Multilingual Visual Question Answering* (**arxiv**)

Conferences

- "Denoising Large-Scale Image Captioning from Alt-text Data using Content Selection Models" (**COLING 2022**)
- *Multilingual Multimodality: A Taxonomical Survey of Datasets, Techniques, Challenges and Opportunities* (**under review**)
- Curriculum Script Distillation for Multilingual Visual Question Answering (arxiv)  [\[paper\]](#)
- *GEMv2 : Multilingual NLG Benchmarking in a Single Line of Code* (**EMNLP 2022 Demos**)  [\[paper\]](#)
- *Switch Point biased Self-Training : Re-purposing Pretrained Models for Code-Switching* (**EMNLP 2021**)
- *Grounding 'Grounding' in NLP* (**ACL 2021 Findings**)  [\[paper\]](#)
- *The GEM Benchmark : Natural Language Generation, its Evaluation and Metrics*  [\[paper\]](#)
- "Positioning yourself in the maze of Neural Text Generation" (*submitted, under review*)
- "Reading Between the Lines : Exploring Infilling in Visual Narratives" (**EMNLP 2020**)  [\[paper\]](#)
- "Style Transfer as Vantage Point for Code-Switching" (**InterSpeech 2020**)  [\[paper\]](#)
- "Storyboarding of Recipes: Grounded Contextual Generation" at **ACL 2019**.  [\[paper\]](#)
- "Speech Synthesis for Mixed-Language Navigation Instructions" **InterSpeech 2017**.  [\[paper\]](#)
- "Answer ka type kya he? Learning to classify questions in code-mixed language". in **International Conference on World Wide Web WWW 2015**.  [\[paper\]](#)
- "WebShodh : A Code Mixed Factoid Question Answering System for Web" in **CLEF 2017**  [\[paper\]](#)
- "Nee Intention enti?" Towards Dialog Act Recognition in Code-Mixed Conversations. **IALP 2017**.  [\[paper\]](#)
- "Domain Adaptation in Morphological Analysis". in **International Journal of Languages, Literature and Linguistics 2015**.  [\[paper\]](#)

Journals

- *A Survey of Code-switched Speech and Language Processing* (**under review**)  [\[paper\]](#)

Proceedings

- Proceedings of the Workshop on Novel Ideas in Learning-to-Learn through Interaction (NILLI 2023)  [\[paper\]](#)
- Proceedings of the Third Workshop on Natural Language Generation, Evaluation, and Metrics (GEM)  [\[paper\]](#)
- Proceedings of the The Fourth Workshop on Narrative Understanding
- Proceedings of the The Fifth Widening Natural Language Processing Workshop
- Proceedings of the The Fourth Widening Natural Language Processing Workshop  [\[paper\]](#)

Theses

- *PhD Thesis Proposal : Effective Anchoring of Multimodal Narrative Generation* (**CMU**)  [\[paper\]](#)
- *Code-Mixed Question Answering for Indian Languages* (**Research thesis at IIIT-H**)

PUBLICATIONS

Workshops

- *CodemixedNLP : An Extensible and Open NLP Toolkit for Code-Mixing* in CALCS at NAACL 2021.  [\[paper\]](#)
- *Entity Skeletons for Visual Storytelling* in LVVU at CVPR 2020, ALVR at ACL 2020 .  [\[paper\]](#)
- *“My Way of Telling a Story” : Persona based Grounded Story Generation* in StoryNLP at ACL 2019.  [\[paper\]](#)
- *“Comparative Analysis of Neural QA models on SQuAD”* in MRQA at ACL 2018.  [\[paper\]](#)
- *“Code-Mixed Question Answering Challenge : Crowd-sourcing Data and Techniques”* in CALCS at ACL 2018.  [\[paper\]](#)
- *“Language Informed Modeling of Code-Switched Text.”* in CALCS at ACL 2018.  [\[paper\]](#)
- *“Tackling Code-Switched NER: Participation of CMU.”* in CALCS at ACL 2018.  [\[paper\]](#)
- *“Tackling Biomedical Text Summarization : OAQA at BioASQ 5B.”* in BioNLP at ACL 2017.  [\[paper\]](#)
- *Ontology-Based Retrieval & Neural Approaches for BioAsq Ideal Answer Generation* in BioAsq at EMNLP 2018. [\[paper\]](#)
- *Extraction Meets Abstraction : Ideal Answer Generation for Biomedical Questions* in BioAsq at EMNLP 2018.  [\[paper\]](#)

Technical Reports

- Amazon Alexa team *“Building CMU Magnus from User Feedback”* in Amazon Alexa Prize Summit 2017.  [\[Report\]](#)
- *“Textually Enriched Neural Module Networks for Visual Question Answering”*.  [\[Arxiv\]](#)
- *“Entity Skeletons as Intermediate Representations for Visual Storytelling”*. at BayLearn 2020  [\[link\]](#)

Book

- *“Language Technologies for Code-Switching : an account of sequence, semantic and generation tasks”*. online soon

TEACHING

Deep Learning for NLP (LLMs and beyond) – Visiting Professor	Jio Institute, 2024
Question Answering (TA)	CMU, Spring 2018
Design & Engineering of Intelligent Information Systems (TA)	CMU, Fall 2017
Graphics (TA)	IIIT-H, Spring 2016 & Spring 2014
Natural Language Processing (TA)	IIIT-H, Fall 2015
Natural Language Applications (TA)	IIIT-H, Spring 2015
Structured Systems Analysis and Design (TA)	IIIT-H, Fall 2014
Science (TA)	IIIT-H, Fall 2013