

Simran Khanuja

PhD in Computer Science | Carnegie Mellon University

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Education

-	Carnegie Mellon University	Pittsburgh, Pennsylvania
Aug 2022	PhD in Computer Science (NLP), QPA: 4.03/4.33 Advisor: Prof. Graham Neubig	
Aug 2020	Birla Institute of Technology and Science, Pilani	Goa, India
Aug 2015	B.E. (Honors) Computer Science; M.Sc.(Hons.) Economics, CGPA: 8.81/10.00	

Experience

Aug 2025	Google DeepMind [🌐]	MTV, California
May 2025	Student Researcher Host: Dr. Lun Wang Project: Steering LLMs for Culturally Localized Generation	
Aug 2022	Google Research [🌐]	Bangalore, India
Aug 2020	Pre-Doctoral Researcher Advisors: Dr. Partha Talukdar, Dr. Sebastian Ruder, Dr. Alexis Conneau Projects: MuRIL, MergeDistill, Multilingual NSP for Assistant, FLEURS	
Jul 2020	Microsoft Research [🌐]	Bangalore, India
Jul 2019	Research Intern (Bachelor Thesis) Advisors: Dr. Sunayana Sitaram, Dr. Monojit Choudhury Projects: Code-Mixed NLU and NLI (GLUECoS), Adapting TULR for Code-Mixing	

Awards, Fellowships, Grants, Selected Talks

Jane Street Fellowship - Honorable Mention [🌐]
BITS 30 Under 30 - Research Leaders [🌐]
MIT EECS Rising Star 2025 [🌐]
Invited Keynote: CEGIS @ ICCV 2025 [🌐] Evaluating Cultural Diversity in Generative AI
Rising Star in AI, AI for Science Symposium 2025, University of Michigan [🌐]
Imminent Translated Research Grant Recipient, 2025 [🌐] For Human-AI Platform on Image Transcreation
Invited Keynote: DemoDiv @ CVPR 2025 [🌐] Data collection and Evaluation efforts for Image Transcreation
Invited Keynote: AmericasNLP @ NAACL 2024 [🌐] Introducing task and Evaluation efforts for Image Transcreation
Best Paper, EMNLP 2024 [🌐] Introducing the new task of Image Transcreation for localizing multimodal content
CMU Waibel Presidential Fellowship, 2024-25
Best Paper, SLT 2022 [🌐] Introducing the largest multilingual speech-text dataset, FLEURS
National ICSE Topper, 2013 Rank 1 in the country for board examinations

Selected Publications

- [19] **Steering LLMs for Culturally Localized Generation**
[Simran Khanuja](#), Hongbin Liu, Shujian Zhang, John Lambert, Mingqing Chen, Rajiv Mathews, Lun Wang
Under Conference Submission [Preprint]
- [18] **HILite: Human-AI Collaborative Framework for Image Transcreation**
[Simran Khanuja](#), Yutong Zhang, Aayush Bheemaih, ... Diyi Yang, Graham Neubig
Under Conference Submission [HCI+NLP@EMNLP '25]
- [17] **CAIRE: Cultural Attribution of Images by Retrieval-Augmented Evaluation** [PDF | code]
Arnav Yayavaram*, Siddharth Yayavaram*, [Simran Khanuja](#)*, Michael Saxon, Graham Neubig
European Chapter of the Association for Computational Linguistics (also at CEGIS@ICCV '25) [EACL '26]

- [16] **Towards Automatic Evaluation for Image Transcreation** [PDF]
 Simran Khanuja*, Vivek Iyer*, Claire He, Graham Neubig
Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics [NAACL '25]
- [15] **Pangea: A Fully Open Multilingual Multimodal LLM for 39 Languages** [web | PDF | code | models]
 Xiang Yue*, Yueqi Song*, Akari Asai, ... Simran Khanuja, ... Graham Neubig
International Conference on Learning Representations [ICLR '25]
- [14] **[Best Paper] An image speaks a thousand words but can everyone listen? On image transcreation for cultural relevance** [web | PDF | code | talk]
 Simran Khanuja, Sathyanarayanan Ramamoorthy, Yueqi Song, Graham Neubig
Conference on Empirical Methods in Natural Language Processing [EMNLP '24]
- [13] **[Best Paper Runner-Up] HILITE: Human-in-the-loop Interactive Tool for Image Editing**
 Arya Pasumarthi, Armaan Sharma, ..., Diyi Yang, Graham Neubig, Simran Khanuja
2024 IEEE International Conference on Big Data (Undergraduate Symposium) [IEEE BigData '24]
- [12] **DeMuX: Data-efficient Multilingual Learning** [PDF | code]
 Simran Khanuja, Srinivas Gowriraj, Lucio Dery, Graham Neubig
Conference of the North American Chapter of the Association for Computational Linguistics [NAACL '24]
- [11] **GlobalBench: A Benchmark for Global Progress in Natural Language Processing** [PDF]
 Yueqi Song, Catherine Cui, Simran Khanuja, Pengfei Liu, ..., Graham Neubig
Conference on Empirical Methods in Natural Language Processing [EMNLP '23]
- [10] **Multi-lingual and Multi-cultural Figurative Language Understanding** [PDF | code]
 Anubha Kabra*, Emmy Liu*, Simran Khanuja*, Alham Fikri Aji, ..., Graham Neubig
Annual Conference of the Association for Computational Linguistics [ACL '23 Findings]
- [9] **Evaluating Inclusivity, Equity, and Accessibility of NLP Technology: A Case Study for Indian Languages** [PDF]
 Simran Khanuja*, Sebastian Ruder*, Partha Talukdar
European Chapter of the Association for Computational Linguistics [C3NLP | SIGTYP | EACL '23]
- [8] **[Best Paper] FLEURS: Few-Shot Learning Evaluation of Universal Representations of Speech** [PDF]
 Alexis Conneau*, Min Ma*, Simran Khanuja*, Yu Zhang, ..., Ankur Bapna
IEEE Spoken Language Technology Workshop [SLT 2022]
- [7] **MuRIL: Multilingual Representations for Indian Languages** [PDF | large | base]
 Simran Khanuja, Diksha Bansal, Sarvesh Mehtani, Savya Khosla, ..., Partha Talukdar
 Media: [Economic Times](#) | [Indian Express](#) | [Google AI Blog](#) [Technical Report: Mar '21]
- [6] **MergeDistill: Merging Pre-trained Language Models using Distillation** [PDF]
 Simran Khanuja, Melvin Johnson, Partha Talukdar
Annual Conference of the Association for Computational Linguistics (Virtual) [Findings of ACL'21]
- [5] **GLUECoS: An Evaluation Benchmark for Code-Switched NLP** [PDF | code | website]
 Simran Khanuja, Sandipan Dandapat, Anirudh Srinivasan, Sunayana Sitaram, Monojit Choudhury
Annual Conference of the Association for Computational Linguistics (Virtual) [ACL'20]

Other Publications

- [4] **NaturalBench: Evaluating Vision-Language Models on Natural Adversarial Samples** [PDF]
 Baiqi Li, Zhiqiu Lin, Wenxuan Peng, Jean de Dieu Nyandwi, Daniel Jiang, Zixian Ma, Simran Khanuja, Ranjay Krishna, Graham Neubig, Deva Ramanan
Conference on Neural Information Processing Systems [NeurIPS '24]
- [3] **A New Dataset for Natural Language Inference from Code-mixed Conversations** [PDF | data]
 Simran Khanuja, Sandipan Dandapat, Sunayana Sitaram, Monojit Choudhury
International Conference on Language Resources and Evaluation [CALCS, LREC'20]
- [2] **Unsung Challenges of Building and Deploying Language Technologies for LRL Communities** [PDF]
 Pratik Joshi, Christain Barnes, Sebastin Santy, Simran Khanuja, Sanket Shah, Anirudh Srinivasan, Satwik Bhat-tamishra, Sunayana Sitaram, Monojit Choudhury, Kalika Bali
International Conference on Natural Language Processing, Hyderabad, India [ICON'19]
- [1] **Dependency Parser for Bengali-English Code-Mixed Data enhanced with a Synthetic Treebank** [PDF | code]
 Urmi Ghosh, Simran Khanuja, Dipti Misra Sharma
International Workshop on Treebanks and Linguistic Theories [TLT, SyntaxFest'19]

Academic Service

Lecturer	CMU-11737 (Multilingual NLP) on Image-Text Modeling for Multilingual NLP (slides)
Reviewer	EMNLP'25, NAACL'25, ACL'25, EMNLP '23, ACL'23, MRL@EMNLP'21, TALLIP'20
Sub-Reviewer	EMNLP'21, EMNLP'20, ACL'20

Volunteer Service

AI For Education	In engagement with Inspiring Teachers to use my research to create educational content for children in Ghana. Also in engagement with Linguistics Justice League to help localize stories for children for their multilingual story app in 108 languages, using my research.
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Talks and Interviews

“Image Transcreation for Cultural Relevance”

> University of Edinburgh	March 2024
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“Multimodality for Multilingual NLP: The need, an application, and open questions”

> Google Research Microsoft Research IISc Microsoft IDC (Slides)	January 2024
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“Decode with Google”

> Speaker List Talk (2:28:00 onwards) (registration required) [🔗]	August 2022
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“An Introduction to (Modern) TensorFlow”

> CVIT Summer School, IIIT Hyderabad [🔗]	August 2021 (Remote)
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“Journey into Research”

> Rotaract Club, BITS Hyderabad [🔗]	January 2021 (Remote)
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“ICSE National Topper”

> India Times Times of India Indian Express	May 2013 (Pune, India)
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Teaching and Leadership

Multilingual NLP (Graduate Course), CMU <i>Teaching Assistant</i>	Fall '23
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- > TA for [11737-Multilingual NLP](#) at CMU, taught by Dr. Lei Li. Design assignments and guide course projects for teams.

Student Research Symposium, CMU <i>Co-Organizer</i>	Aug '23
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- > Co-organizing the [student research symposium](#) at CMU, a LTI-wide event for students to share their research.

LTI LLM Hackathon, CMU <i>Co-Organizer</i>	Apr '23
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- > Co-organizing the [LTI LLM Hackathon](#) at CMU!

AI Undergrad Mentorship Program, CMU <i>Mentor</i>	Spring '23
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- > Mentor to undergraduate students starting out with NLP research at CMU.

Coffee Club Mentorship Program, Google <i>Co-Lead</i>	July '21 - July '22
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- > Co-Lead of the Coffee Club program at Google India.
- > Enabling women employees to seek mentorship from senior executives across Google.

An Introduction to (Modern) TensorFlow <i>Co-Instructor</i>	Aug '21
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- > Conducted a hands-on Tensorflow tutorial session attended by **100+** members from Academia.

Fireside Chat with Jeff Dean <i>Host</i>	Sep '20
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- > Hosted a Fireside Chat with Jeff Dean on his virtual Google India visit!

Student Mentorship

- > Parin Pengpun [Undergraduate, CMU]
- > OpenNLP Labs Summer Cohort [Miscellaneous]
- > Arnav Yayavaram [BITS Pilani, Hyderabad]
- > Siddharth Yayavaram [BITS Pilani, Hyderabad]
- > Yueqi Kaylin Song [Undergraduate, CMU]
- > Sathyanarayanan Ramamoorthy [MIIS, CMU]
- > Srinivas Gowriraj [MIIS, CMU]
- > Helen Wang [Undergraduate, CMU]