

# Simran Khanuja

PhD in Computer Science | Carnegie Mellon University

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 [Google Scholar](https://scholar.google.com/citations?user=QWzrJgAAAAJ&hl=en)    [twitter.com/simi\\_97k](https://twitter.com/simi_97k)

## Education

-	<b>Carnegie Mellon University</b> PhD in Computer Science (NLP), QPA: 4.08/4.00 Advisor: Prof. Graham Neubig	Pittsburgh, Pennsylvania
Aug 2022		
Aug 2020	<b>Birla Institute of Technology and Science, Pilani</b>	Goa, India
Aug 2015	B.E. (Honors) Computer Science; M.Sc.(Hons.) Economics, CGPA: 8.81/10.00	

## Experience

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

## Awards, Fellowships, Grants, Selected Talks

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

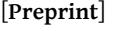
Best Paper, EMNLP 2024  Introducing the new task of Image Transcreation for localizing multimodal content

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* 
- [18] **HILIte: Human-AI Collaborative Framework for Image Transcreation**  
[Simran Khanuja](#), Yutong Zhang, Aayush Bheemaih, ... Diyi Yang, Graham Neubig  
*Under Conference Submission* 
- [17] **CAIRE: Cultural Attribution of Images by Retrieval-Augmented Evaluation**    
Arnav Yayavaram\*, Siddharth Yayavaram\*, [Simran Khanuja](#)\*, Michael Saxon, Graham Neubig  
*Under Conference Submission* 
- [16] **Towards Automatic Evaluation for Image Transcreation**   
[Simran Khanuja](#)\*, Vivek Iyer\*, Claire He, Graham Neubig  
*Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics* 

- [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

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- [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* [LT, SyntaxFest'19]

## Academic Service

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<b>Lecturer</b>	CMU-11737 (Multilingual NLP) on Image-Text Modeling for Multilingual NLP ( <a href="#">slides</a> )
<b>Reviewer</b>	EMNLP'25, NAACL'25, ACL'25, EMNLP '23, ACL'23, MRL@EMNLP'21, TALLIP'20
<b>Sub-Reviewer</b>	EMNLP'21, EMNLP'20, ACL'20

## Volunteer Service

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**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.

## Talks and Interviews

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### “Image Transcreation for Cultural Relevance”

› University of Edinburgh March 2024

### “Multimodality for Multilingual NLP: The need, an application, and open questions”

› Google Research | Microsoft Research | IISc | Microsoft IDC ([Slides](#)) January 2024

### “Decode with Google”

› Speaker List | Talk (2:28:00 onwards) (registration required) [\[🔗\]](#) August 2022

### “An Introduction to (Modern) TensorFlow”

› CVIT Summer School, IIIT Hyderabad [\[🔗\]](#) August 2021 (Remote)

### “Journey into Research”

› Rotaract Club, BITS Hyderabad [\[🔗\]](#) January 2021 (Remote)

### “ICSE National Topper”

› India Times | Times of India | Indian Express May 2013 (Pune, India)

## Teaching and Leadership

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### Multilingual NLP (Graduate Course), CMU *Teaching Assistant*

Fall '23

› TA for [11737-Multilingual NLP](#) at CMU, taught by Dr. Lei Li. Design assignments and guide course projects for teams.

### Student Research Symposium, CMU *Co-Organizer*

Aug '23

› Co-organizing the [student research symposium](#) at CMU, a LTI-wide event for students to share their research.

### LTI LLM Hackathon, CMU *Co-Organizer*

Apr '23

› Co-organizing the [LTI LLM Hackathon](#) at CMU!

### AI Undergrad Mentorship Program, CMU *Mentor*

Spring '23

› Mentor to undergraduate students starting out with NLP research at CMU.

### Coffee Club Mentorship Program, Google *Co-Lead*

July '21 - July '22

› 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 *Co-Instructor*

Aug '21

› Conducted a hands-on Tensorflow tutorial session attended by **100+** members from Academia.

### Fireside Chat with Jeff Dean *Host*

Sep '20

› Hosted a Fireside Chat with Jeff Dean on his virtual Google India visit!

## Student Mentorship

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- › 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]