TEJAS SRINIVASAN

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RESEARCH INTERESTS

My research interests lie in **Multimodal Learning**, particularly **Vision-and-Language**, and how visual commonsense can ground language in the real world. I am also interested in **Continual Learning** in real-world multimodal settings.

EDUCATION

2021 - Curr.	**Ph.D. in Computer Science, University of Southern California**	GPA: 4.0/4.0
	Advisor: Prof. Jesse Thomason	
2018 - 2020	**M.Sc. in Language Technologies, Carnegie Mellon University**	GPA: 3.87/4.0
	Advisors: Prof. Florian Metze, Prof. Louis-Phillippe Morency, Prof. Yonatan Bisk	
2014 - 2018	**B.Tech. Mechanical Engineering, Indian Institute of Technology, Bombay**	GPA: 9.15/10.0

INDUSTRY EXPERIENCE

Summer 2021	**Microsoft Research (MSR)**	NLP Research Intern
2020 - 2021	**A.I. Foundation**	NLP Research Scientist

SELECTED PUBLICATIONS

2022 — **Curriculum Learning for Data-Efficient Vision-Language Alignment**
Tejas Srinivasan, Xiang Ren, Jesse Thomason
arXiV preprint
We **align pre-trained vision and language models** to each other to achieve better cross-modal alignment than CLIP, using $< 1\%$ as much image-text data!

2022 — **CLiMB: A Continual Learning Benchmark for Vision-and-Language Tasks**
Tejas Srinivasan, Ting-Yun Chang, Leticia Pinto Alva, Georgios, Mohammad Rostami, Jesse Thomason
NeurIPS 2022 Datasets and Benchmarks Track
We introduce CLiMB, a benchmark to study **continual learning in multimodal settings**.

2022 — **Worst of Both Worlds: Biases Compound in Pre-trained Vision-and-Language Models**
Tejas Srinivasan, Yonatan Bisk
Workshop on Gender Bias in Natural Language Processing, NAACL 2022
We analyze how **multimodal LMs exhibit gender biases** learned from each modality.

2020 — **Looking Enhances Listening: Recovering Missing Speech Using Images**
Tejas Srinivasan, Ramon Sanabria, Florian Metze
International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2020
We utilize visual context to make ASR models more robust to audio corruption.

2019 — **Structured Fusion Networks for Dialog**
Shikib Mehri*, Tejas Srinivasan*, Maxine Eskenazi
Special Interest Group on Discourse and Dialogue (SIGDIAL) 2019
Best Paper Award
We incorporate structure from traditional dialog systems into neural dialog models.

RESEARCH SKILLS

NLP/DL TRAINING	PyTorch, TensorFlow, Huggingface Transformers, adapter-transformers, Weights&Biases
COMPUTING TOOLS	NumPy, SciPy, Pandas, Git, LaTeX