

Vishakh Padmakumar

Education

- 2020–Present **PhD Student**, *Center for Data Science, New York University (NYU), NY, CGPA – 3.96/4.*
Advisor: Dr. He He
Area: NLP, Text Generation, Human Centric Machine Learning
- 2018–2020 **Masters in Computer Science**, *Courant Institute of Mathematical Sciences, New York University (NYU), NY, CGPA – 3.95/4.*
- 2014–2018 **Bachelors in Information Technology**, *National Institute of Technology (NIT) Karnataka, Surathkal, CGPA – 8.75/10.*

Experience

Publications

Machine-in-the-Loop Rewriting for Creative Image Captioning, *Paper.*

Vishakh Padmakumar, He He

To appear at NAACL 2022

Previously presented at Novel Ideas in Learning-to-Learn through Interaction - Workshop @ EMNLP 2021

Exploring the Role of Task Transferability in Large-Scale Multi-Task Learning.

Vishakh Padmakumar, Leonard Lausen, Miguel Ballesteros, Sheng Zha, He He, George Karypis

To appear at NAACL 2022

QuALITY: Question Answering with Long Input Texts, Yes!, *Paper.*

Richard Yuanzhe Pang, Alicia Parrish, Nitish Joshi, Nikita Nangia, Jason Phang, Angelica Chen, **Vishakh Padmakumar**, Johnny Ma, Jana Thompson, He He and Sam Bowman.

To appear at NAACL 2022

BBQ: A Hand-Built Bias Benchmark for Question Answering, *Paper.*

Alicia Parrish, Angelica Chen, Nikita Nangia, **Vishakh Padmakumar**, Jason Phang, Jana Thompson, Phu Mon Htut, Samuel R. Bowman

ACL Findings 2022

Unsupervised Extractive Summarization using Pointwise Mutual Information, *Paper.*

Vishakh Padmakumar, He He

EACL 2021

A comparison of methods in political science text classification: Transfer learning language models for politics, *Paper.*

Zhanna Terechshenko, Fridolin Linder, **Vishakh Padmakumar**, Michael Liu, Jonathan Nagler, Josh Tucker, Richard Bonneau

SSRN

Multi-Modal Content Similarities in Online Disinformation Campaigns, *Ext. Abstract.*

Cody Buntain, **Vishakh Padmakumar**, Richard Bonneau, Jonathan Nagler, Josh Tucker

ACM Conference on Collective Intelligence, June, 2020.

Positions Held

May-Oct 2021 **Applied Scientist Intern, Amazon Web Services**, New York, NY.

o *Mentor(s):* Leonard Lausen, Miguel Ballesteros, George Karypis

- May-Aug 2019 **Machine Learning Intern, Laer.AI**, New York, NY.
○ *Mentor(s)*: Igor Labutov, Bishan Yang
- Oct 2018 - May 2020 **Graduate Research Associate, Center for Social Media and Politics, NYU**, New York, NY.
○ *Mentor(s)*: Richard Bonneau, Fridolin Linder, Zhanna Terechshenko
- May-Jul 2017 **Software Development Intern, Microsoft - IDC**, Bangalore.
○ *Mentor(s)*: Vageesh Banga, Darshan Jawalebhoi
○ Dynamics 365 team

Other Selected Projects

Modular Sentence Summarization, *Ongoing work*.
Vishakh Padmakumar, Shuo Guan, He He

Scalar Controlled Text Generation, *Ongoing work*.
Vishakh Padmakumar, Richard Pang, He He, Ankur Parikh

Counterfactual Logit Pairing with Asymmetric Counterfactuals, *Paper*.
Vishakh Padmakumar, Lucius Bynum

Transfer of Reinforcement Learning in a Natural Language Action Space, *Paper*.
Vishakh Padmakumar, Francesco Preta

A Robust Approach to Open Vocabulary Image Retrieval with Deep Convolutional Neural Networks and Transfer Learning, *Paper*.

Vishakh Padmakumar, Rishab Ranga, Srivalya Elluru, Sowmya Kamath S
2018 Pacific Neighborhood Consortium Annual Conference and Joint Meetings (PNC). IEEE, 2018.

Open Source Contributions

Multiscale Multifractal Time Series Analysis.

- Created and maintained the TSeriesMMA R package on the CRAN Project

Achievements

- 2022 Received the CDS Best Teaching Assistant award for the Spring 22 semester
- 2017 - 18 Convenor of the Association for Computing Machinery (ACM) - NITK Chapter
- 2017 Co-founded the Mozilla Campus Club at NITK to foster open source contributions.
- 2012 - Awarded the National Talent Search Scholarship by NCERT. Government of India