

Purva Tendulkar

Education

Columbia University, New York, NY PhD, Computer Science Advisor: Carl Vondrick GPA: 4.04/4.0	2021 – Present
Georgia Institute of Technology, Atlanta, GA M.S, Computer Science Advisor: Devi Parikh GPA: 4.0/4.0	2018 – 2020
College of Engineering Pune, Maharashtra, India B.Tech, Computer Science GPA: 9.14/10	2014 – 2018

Awards

Apple Ph.D. Scholar in AI/ML	2024 - 26
Sponsored attendee at CRA-WP, Grad Cohort for Women	2022
Columbia University Ph.D. Presidential Fellowship	2021 - 25
Best Presentation Award, at ICCV 2019	2019
Pratibha Eaton Excellence Award for Women	2017

Publications

Conference Papers

- Landscape Learning for Neural Network Inversion**
Ruoshi Liu, Chengzhi Mao, [Purva Tendulkar](#), Hao Wang, Carl Vondrick
International Conference on Computer Vision (ICCV) 2023
- FLEX: Full-Body Grasping Without Full-Body Grasps**
[Purva Tendulkar](#), Dídac Surís, Carl Vondrick
Conference on Computer Vision and Pattern Recognition (CVPR) 2023
- Revealing Occlusions with 4D Neural Fields**
Basile Van Hoorick, [Purva Tendulkar](#), Dídac Surís, Dennis Park, Simon Stent, Carl Vondrick
Conference on Computer Vision and Pattern Recognition (CVPR) 2022, **Oral (top-4%)**
- SOrT-ing VQA Models: Contrastive Gradient Learning for Improved Consistency**
Sameer Dharur, [Purva Tendulkar](#), Dhruv Batra, Devi Parikh, Ramprasaath R. Selvaraju
Conference of the North American Chapter of the Association for Computational Linguistics (NAACL) 2021
- Feel The Music: Automatically Generating A Dance For An Input Song**
[Purva Tendulkar](#), Abhishek Das, Aniruddha Kembhavi, Devi Parikh
International Conference on Computational Creativity (ICCC) 2020, **Oral**
- SQuINTing at VQA Models: Interrogating VQA Models with Sub-Questions**
Ramprasaath R. Selvaraju, [Purva Tendulkar](#), Devi Parikh, Eric Horvitz, Marco Tulio Ribeiro, Besmira Nushi, Ece Kamar
Conference on Computer Vision and Pattern Recognition (CVPR) 2020, **Oral (top-5.7%)**
- Trick or TReAT: Thematic Reinforcement for Artistic Typography**
[Purva Tendulkar](#), Kalpesh Krishna, Ramprasaath R. Selvaraju, Devi Parikh
International Conference on Computational Creativity (ICCC) 2019, **Oral - Best Presentation Award**

Preprints

2. **Discovering Differences in Facial Expressions**

Sumit Sarin, Utkarsh Mall, [Purva Tendulkar](#), Carl Vondrick
Pre-print 2024

1. **Affective Faces for Goal-Driven Dyadic Communication**

Scott Geng*, Revant Teotia*, [Purva Tendulkar](#), Sachit Menon, Carl Vondrick
Pre-print 2023

Work Experience

Columbia University, *Graduate Research Assistant*
with Carl Vondrick

2021 - Present

University of Tübingen, *Visiting PhD Student*
with Gerard Pons-Moll

Summer '24

Meta Reality Labs, *Research Scientist Intern*
with Weipeng Xu

Summer '23

University of California San Diego, *Visiting Researcher*
with Xiaolong Wang

Fall '20, Spring '21

Georgia Tech, *Graduate Research Assistant*
with Devi Parikh

2018 - 2020

AiBee, *Research Intern*
with Chunhui Wu, Juan Carlos Niebles, Silvio Savarese

Summer '19

Nanyang Technological University, *Research Intern*
with Arvind Easwaran

Summer '17

Indian Institute of Technology (IIT), Bombay, *Software Engineer Intern*
with Varsha Apte

Summer '16

Selected Press Coverage

Facebooks new choreography AI is a dancing queen
by Andrew Tarantola. Engadget. June 2020

AI like the way you move: How Facebook researchers built an inspirational dancing machine
by Tech at Meta. August 2020

Talks

Feel The Music: Automatically Generating A Dance For An Input Song
ICCC'20 Oral Talk

2020

Trick or TReAT: Thematic Reinforcement for Artistic Typography
ICCC'19 Oral Talk

2019

Professional Activities

Reviewing

ECCV'24, CVPR'24, SIGGRAPH'23, ICCV'23, ECCV'22, ICCV'21

Invited Panels

Served as a panelist for the Graduate Society of Women Engineers (GradSWE) at Columbia
Served as a panelist for The Coding with Empathy Challenge at Empatico

March '23

April '23

Teaching Experience

Courses

Columbia CS 6998: Representation Learning

Fall '21, '22

Advising & Mentorship

Sumit Sarin, Masters Student, Columbia	Fall '23 - Present
Yuechen Wang, Masters Student, Columbia	Fall '23 - Present
Iris Xue, Undergraduate Student, Columbia	Fall '23 - Present
Revant Teotia, Masters Student, Columbia (next: PhD student at NYU)	Spring'23
Scott Geng, Undergraduate Student, Columbia (next: PhD student at UW)	Fall '22
Macarena Peralta, Undergraduate Student, UMich (Amazon SURE)	Summer '22
Five females, Undergraduate Students, Barnard (BEARS)	Spring '22
Six females, Undergraduate Students, Columbia (WISC)	2021 - 2023

References

- Carl Vondrick (vondrick@cs.columbia.edu)
- Gerard Pons-Moll (gerard.pons-moll@uni-tuebingen.de)
- Weipeng Xu (xuweipeng@meta.com)
- Devi Parikh (parikh@gatech.edu)