

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

- How Video Meetings Change Your Expression**
Sumit Sarin, Utkarsh Mall, [Purva Tendulkar](#), Carl Vondrick
European Conference on Computer Vision (ECCV) 2024
- 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%)**

3. **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. **Populating Images with Moving 3D Humans**
Purva Tendulkar, István Sáráandi, Gerard Pons-Moll, Carl Vondrick
Pre-print 2025
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 , <i>Graduate Research Assistant</i> with Carl Vondrick	2021 - Present
University of Tübingen , <i>Visiting PhD Student</i> with Gerard Pons-Moll	Summer '24
Meta Reality Labs , <i>Research Scientist Intern</i> with Weipeng Xu	Summer '23
University of California San Diego , <i>Visiting Researcher</i> with Xiaolong Wang	Fall '20, Spring '21
Georgia Tech , <i>Graduate Research Assistant</i> with Devi Parikh	2018 - 2020
AiBee , <i>Research Intern</i> with Chunhui Wu, Juan Carlos Niebles, Silvio Savarese	Summer '19
Nanyang Technological University , <i>Research Intern</i> with Arvind Easwaran	Summer '17
Indian Institute of Technology (IIT), Bombay , <i>Software Engineer Intern</i> 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	March '23
Served as a panelist for The Coding with Empathy Challenge at Empatico	April '23

Teaching Experience

Courses

Columbia CS 6998: Representation Learning

Fall '21, '22

Advising & Mentorship

Sumit Sarin, Masters Student, Columbia (next: SWE at Google)

Spring'24

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)