

Work Experience

Startup, CEO & Founder Self-employed	2025 - Present
Columbia University, Graduate Research Assistant with Carl Vondrick	2021 - 2025
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

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

Education

Columbia University, New York, NY PhD, Computer Science Advisor: Carl Vondrick GPA: 4.04/4.0	2021 – 2025 (on leave)
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

Publications

Conference Papers

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

9. **Landscape Learning for Neural Network Inversion**
Ruoshi Liu, Chengzhi Mao, [Purva Tendulkar](#), Hao Wang, Carl Vondrick
International Conference on Computer Vision (ICCV) 2023
8. **FLEX: Full-Body Grasping Without Full-Body Grasps**
[Purva Tendulkar](#), Dídac Surís, Carl Vondrick
Conference on Computer Vision and Pattern Recognition (CVPR) 2023
7. **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%)**
6. **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
5. **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**
4. **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 Sáráncsi, 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

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 | 2020 |
| ICCC'20 Oral Talk | |
| Trick or TReAT: Thematic Reinforcement for Artistic Typography | 2019 |
| ICCC'19 Oral Talk | |

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 Empatiko

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)