Purva Tendulkar

☐ +1 (470)-685-4550

✓ pt2578@columbia.edu

♦ purvaten.github.io

Education

Columbia University, New York, NY

2021 - Present
PhD, Computer Science
Advisor: Carl Vondrick
GPA: 4.0/4.0

Georgia Institute of Technology, Atlanta, GA

M.S, Computer Science
Advisor: Devi Parikh
GPA: 4.0/4.0

College of Engineering Pune, Maharashtra, India
B.Tech, Computer Science

Awards

GPA: 9.14/10

Sponsored attendee at, NSF-funded CRA Graduate Cohort for Women2021Columbia University Ph.D. Presidential Fellowship2021-25Best Presentation Award, at ICCC 20192019Pratibha Eaton Excellence Award for Women2017

Publications

Preprints

8. FLEX: Full-Body Grasping Without Full-Body Grasps

<u>Purva Tendulkar</u>, Dídac Surís, Carl Vondrick arXiv 2022

7. Landscape Learning for Neural Network Inversion

Ruoshi Liu, Chengzhi Mao, <u>Purva Tendulkar</u>, Hao Wang, Carl Vondrick arXiv 2022

Conference Papers

6. Revealing Occlusions with 4D Neural Fields

Basile Van Hoorick, <u>Purva Tendulkar</u>, Dídac Surís, Dennis Park, Simon Stent, Carl Vondrick Conference on Computer Vision and Pattern Recognition (CVPR) 2022, **Oral (top-4%)**

5. SOrT-ing VQA Models: Contrastive Gradient Learning for Improved Consistency

Sameer Dharur, <u>Purva Tendulkar</u>, Dhruv Batra, Devi Parikh, Ramprasaath R. Selvaraju Conference of the North American Chapter of the Association for Computational Linguistics (NAACL) 2021

4. Feel The Music: Automatically Generating A Dance For An Input Song

<u>Purva Tendulkar</u>, Abhishek Das, Aniruddha Kembhavi, Devi Parikh International Conference on Computational Creativity (ICCC) 2020, **Oral**

3. SQuINTing at VQA Models: Interrogating VQA Models with Sub-Questions

Ramprasaath R. Selvaraju, <u>Purva Tendulkar</u>, Devi Parikh, Eric Horvitz, Marco Tulio Ribeiro, Besmira Nushi, Ece Kamar

Conference on Computer Vision and Pattern Recognition (CVPR) 2020, Oral (top-5.7%)

2. Trick or TReAT: Thematic Reinforcement for Artistic Typography

<u>Purva Tendulkar</u>, Kalpesh Krishna, Ramprasaath R. Selvaraju, Devi Parikh International Conference on Computational Creativity (ICCC) 2019, **Oral** - **Best Presentation Award**

Workshop

SOrT-ing VQA Models: Contrastive Gradient Learning for Improved Consistency
 Sameer Dharur, <u>Purva Tendulkar</u>, Dhruv Batra, Devi Parikh, Ramprasaath R. Selvaraju
 Workshop on Interpretable Inductive Biases and Physically Structured Learning at NeurIPS 2020

Work Experience

Columbia University , <i>Graduate Research Assistant</i> with Carl Vondrick	2021-present
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, 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

Al like the way you move: How Facebook researchers built an inspirational dancing machine

by Tech at Meta. August 2020

Teaching Experience

Columbia CS 6998: Representation Learning	Fall '21, '2	22
---	--------------	----

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

International Conference on Computer Vision (ICCV)	2021
European Conference on Computer Vision (ECCV)	2022
Advising	

Scott Geng, Undergraduate Student, Columbia	2022 - Present
Macarena Peralta, Undergraduate Student, UMich (Amazon SURE program)	Summer 2022
Five females, Undergraduate Students, Barnard (BEARS program)	Spring 2022
Three females, Undergraduate Students, Columbia (WISC program)	2021 - 2022

Extracurricular Activities

- \circ Co-organizing a bi-weekly research seminar series "Vision, Interaction, Graphics & Robotics (VIGR)" at Columbia.
- o Received 3rd prize in the CS department for my undergraduate thesis on speeding up image dehazing algorithms.

- o Completed Sangeet Visharad or Bachelor of Arts (BA) in Indian (Hindustani) Classical Music in harmonium instrument.
- o Completed Arangetram in an Indian Classical Dance form called Bharatnatyam.
- Competed at the final round of the National British Parliamentary Debate Competition organized by Symbiosis Law School (SLS) in 2016.