

Pushkar Shukla.

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🌐 <https://pushkershukla.github.io/shukla.github.io/>

Education

- 2019– Present 📌 **Ph.D. in Computer Science, Toyota Technological Institute at Chicago.**
Academic Advisor :- Dr. Matthew Turk
- 2017 – 2019 📌 **M.S. in Computer Science, University of California, Santa Barbara.**
GPA:- 3.83/4.00 , Academic Advisor :- Dr. Matthew Turk, Thesis :- Goal Oriented Visual Dialogue
- 2010 – 2014 📌 **B.Tech in Electronics and Telecommunications, Uttarakhand Technical University**
Aggregate :- 66.67 % , Academic Advisor :- Dr. Bhagwan Das Patel, Thesis :- Gesture controlled robotic arm

Experience

- Jun. 2019 - Sept. 2019 📌 **Machine Learning and AI research Intern, InTouch Health , Santa Barbara, C.A., U.S.A.**
- Jun. 2018 - Dec. 2018 📌 **Graduate Student Researcher, UCSB**
- Jun. 2018 - Sept. 2018 📌 **Computer Vision Intern, Productive Robotics , Carpinteria, C.A., U.S.A.**
- Aug. 2016 - Jul. 2017 📌 **Research Intern, Indian Institute of Technology, Roorkee, Advisor:- Dr. Balasubramanian Raman**
- May. 2015 - Jul. 2017 📌 **Project Instructor, Raman Classes, Roorkee,**

Research Publications

Conference and Workshops

- 1 Murugesan, K., Atzeni, M., Kapanipathi, P., Shukla, P., Kumaravel, S., Tesauro, G., ... Campbell, M. (2021). Text-based rl agents with commonsense knowledge: new challenges, environments and baselines. In *Association for the advancement of artificial intelligence (AAAI)*.
- 2 Shukla, P., Elmadjian, C., Sharan, R., Kulkarni, V., Turk, M., & Wang, W. Y. (2019). What should i ask? using conversationally informative rewards for goal-oriented visual dialog. In *Proceedings of the the 57th annual meeting of the association for computational linguistics (ACL)*.
- 3 Elmadjian, C., Shukla, P., Tula, A. D., & Morimoto, C. H. (2018). 3d gaze estimation in the scene volume with a head-mounted eye tracker. In *Proceedings of the workshop on communication by gaze interaction ETRA* (p. 3). ACM.
- 4 Shukla, P., Sadana, H., Bansal, A., Verma, D., Elmadjian, C., Raman, B., & Turk, M. (2018). Automatic cricket highlight generation using event-driven and excitement-based features. In *Proceedings of the ieee conference on computer vision and pattern recognition workshops CVPRW* (pp. 1800–1808).

- 5 Shukla, P., Dua, I., Raman, B., & Mittal, A. (2017). A computer vision framework for detecting and preventing human-elephant collisions. In *Proceedings of the IEEE conference on computer vision workshop on visual wildlife monitoring ICCVW* (pp. 2883–2890).
- 6 Shukla, P., Gupta, T., Saini, A., Singh, P., & Balasubramanian, R. (2017). A deep learning framework for recognizing developmental disorders. In *Proceedings of the applications of computer vision (WACV), 2017 IEEE winter conference on* (pp. 705–714). IEEE.

Patents

”Automated Health Condition Scoring in Telehealth Encounters” - Shukla. P, Donovan. J, Bharti. S, McElroy. P, and Pinter.M , Status:- Filed- 10/27/2020 , Application Number-**16/949,370**

Skills and Interests

- Skills **■** C/C++ , Matlab, Python, keras, Tensorflow, pytorch.
- Interests **■** Computer Vision, Machine Learning, Deep Learning , Image Processing , Natural Language Processing

Miscellaneous Experience

Awards and Achievements

2012 **■** Best Project Award, College of Engineering Roorkee.

Professional Services

Reviewer **■** CVPR-2019, ICCV 2019, AAI 2019, CVPR 2020, CVPR 2021, ICCV 2021

Volunteering

- Pannkhuri-Changing Lives **■** My responsibilities included teaching underprivileged children from between the age of 9-12 and creating a database for the organization.
- V-shesh **■** Creating a digital learning platform for a school with children having speaking and hearing disabilities.