

Manoj Acharya

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Research Interests

I work on machine learning algorithms mostly in the intersection of language and vision. My overall goal is to develop models capable of learning language grounded visual representations.

Education

- 2016 – now **Ph.D., Imaging Science**
Chester F. Carlson Center for Imaging Science
Rochester Institute of Technology, Rochester, NY
- 2009 – 2013 **B.E., Electronics and Communication Engineering**
Institute of Engineering
Latitpur, Nepal
Project I: Image Processing Based ‘Ball and Beam’ control system
Project II: Real Time Nepali Sign Language Recognition using Neural Network

Research Publications

- 1 Acharya, M., Kafle, K., & Kanan, C. (2019). Tallyqa: answering complex counting questions. In *Association for the advancement of artificial intelligence*.

Research Experience

- 2013 – 2014 **Researcher**, PowerTech Nepal
Mentor: Surendra Mathema
Highlights: Developed inexpensive solutions to disseminate health awareness in rural hospitals. Also made embedded systems for hospitals, micro-hydro projects, disaster response units etc.
- 2015 – 2016 **Software Developer**, IT Expert
Highlights: Developed a MATLAB application to produce 3D printed artifacts with visualization tools for planning and guiding dental surgeries.

Teaching Experience

- 2018 **Teaching Assistant**, Rochester Institute of Technology
Deep Learning for Computer Vision
- 2016 - 2017 **Teaching Assistant**, Rochester Institute of Technology
Image Processing and Computer Vision I & II

Teaching Experience (continued)

Fall 2013 **Lecturer**, Thapathali Engineering College
Image processing and pattern recognition

Skills

Languages	English, Nepali (mother tongue) , Hindi , Spanish (elementary).
Coding	Python, C , \LaTeX .
Deep/ML Toolboxes	Matlab, Scikit-Learn, Pytorch.
Web Dev	HTML, CSS, JavaScript.

Miscellaneous Experience

Awards and Achievements

2018	Best Student Poster Award in the annual RIT graduate showcase
2011	Second position in Ethical Hacking competition organized by LOCUS 2011
2009	Merit Award , Four years merit based scholarship for outstanding students