

# Manoj Acharya

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## Research Interests

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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

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- 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

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

## Research Experience

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- 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

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- 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)

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

## Miscellaneous Experience

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### Conference Reviews:

Workshop on shortcomings of vision and language (SiVL) at ECCV, 2018

## Skills

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

## Awards and Achievements

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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