ROBIK SHRESTHA

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RESEARCH INTERESTS

Deep Learning, Computer Vision, Natural Language Processing, Multi-Modal Vision and Language Systems, Visual Question Answering, Bias Mitigation, Compositionality, Model Interpretability and Lifelong Machine Learning

EDUCATION

Aug 2017 - CURRENT	**Ph.D. in IMAGING SCIENCE** Chester F. Carlson Center for Imaging Science Rochester Institute of Technology, Rochester, NY **Advisor:** Dr. Christopher Kanan
OCT 2008 - DEC 2012	**B.E. in COMPUTER ENGINEERING** Institute of Engineering, Tribhuvan University, Nepal **Relevant Courses:** Image Processing and Pattern Recognition, Artificial Intelligence

PUBLICATIONS

Under Review (2020)	Damien Teney, Kushal Kafle, **Robik Shrestha** et al. "On the Value of Out-of-Distribution Testing: An Example of Goodhart's Law." *arXiv preprint arXiv:2005.09241* (2020).
Under Review (2020)	Tyler Hayes*, Kushal Kafle*, **Robik Shrestha***, Manoj Acharya and Christopher Kanan. "REMIND Your Neural Network to Prevent Catastrophic Forgetting." *arXiv preprint arXiv:1910.02509* (2020).

ACL (2020)	**Robik Shrestha,** Kushal Kafle, and Christopher Kanan. "A negative case analysis of visual grounding methods for VQA." *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics* (2020).
WACV (2020)	Kushal Kafle, **Robik Shrestha**, and Christopher Kanan "Answering questions about data visualizations using efficient bimodal fusion." *The IEEE Winter Conference on Applications of Computer Vision* (2020).
CVPR (2019)	**Robik Shrestha**, Kushal Kafle, and Christopher Kanan. "Answer them all! toward universal visual question answering models." *Proceedings of the IEEE conference on computer vision and pattern recognition* (2019).
Frontiers (2019)	Kushal Kafle, **Robik Shrestha**, and Christopher Kanan. "Challenges and prospects in vision and language research." *Frontiers in Artificial Intelligence* (2019).

Work and Research Experience

2017 - Present	**RESEARCH ASSISTANT** ***kLab, Chester F. Carlson Center for Imaging Science*** Rochester Institute of Technology, Rochester, NY **Advisor:** Dr. Christopher Kanan
Spring 2018	**TEACHING ASSISTANT** ***Chester F. Carlson Center for Imaging Science*** Rochester Institute of Technology, Rochester, NY Teaching Assistant for *MultiView Geometry* under Dr. Guoyu Lu
2014 - 2016	**LEAD DEVELOPER** ***Viveka Health LLC, Nepal*** Built a fraud detection engine to detect fraud, waste and abuse in U.S. health insurance claims. Responsible for designing and developing data models, OCR system to scan claims, rules engine and tools to develop custom visualizations.
2012 -	**SOFTWARE ENGINEER**

2014 | **Yomari Incorporated, Nepal**
Developed Business Intelligence Solutions for Nepal Telecom and several retailers.

Reviewing Experience

- IEEE Transactions on Circuits and Systems for Video Technology (ICSVT) **2020**
- Association for the Advancement of Artificial Intelligence (AAAI) **2019**
- Conference on Empirical Methods in Natural Language Processing (EMNLP) **2019**
- Natural Language Engineering (NLE) **2019**

Scholarships and Awards

- Winner of Bootstrapping for Space Industry Challenge, NASA (2013)
- Ranked 1st in B.E. in Computer Engineering at Institute of Engineering, Tribhuvan University
- Received Full Scholarship for B.E. in Computer Engineering (2008 - 2012)

Technical Skills

- **Deep Learning Frameworks:** PyTorch, Tensorflow
- **Scientific Computing Packages:** Numpy, Scipy, Scikit-Learn, Pandas
- **Programming (Proficient):** Python
- **Programming (Past):** Java, Matlab, C/C++
- **Others:** Git, Bash