

Pradeep Bajracharya

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Education	PhD in Computing and Information Sciences 2018 - Present Rochester Institute of Technology, Rochester, NY, USA (3.92/4.00) GPA Advisor: Dr. Linwei Wang Research Group: CBL Lab Relevant Courses: Deep Learning, Statistical Machine Learning, Image Processing and Computer Vision, Probability and Noise System Modeling
	Bachelor in Electronics and Communication Engineering, 2011 - 2015 Pulchowk Campus, Tribhuvan University, Nepal (82.97%)
Scholarships & Awards	Prof. F.N. Trofimenkoff Academic Achievement Award 2019 for graduating top of the class (2015) in BE Electronics and Communications Engineering, Nepal
	RIT Ph.D. Merit Scholarship, Financial assistance for 2018 - Present Ph.D. studies
	Ncell Scholarship and Excellence Award, NRs. 100,000 2015, 2016 to top student of BE Electronics and Communications, Electrical and Communication, and Computer, Nepal
	The College Fellowship Scholarship, in each semester and 2011 - 2015 Full-fee scholarship in semester I/II, Nepal
Technical Skills	Languages : Python, C++, Matlab Deep Learning Tools : PyTorch, Basic Tensorflow, and Keras
Journal Article	Embedding High-dimensional Bayesian Optimization via Generative Modeling: Parameter Personalization of Cardiac Electrophysiological Models Dhamala, J., Bajracharya, P. , Arevalo, H. J., Horcek, B. M., Wu, K. C., Trayanova, N. A., Wang, L. <i>Medical Image Analysis (MedIA), 2020</i>
Conference Article	Semi-supervised Medical Image Classification with Global Latent Mixing Gyawali, P. K., Ghimire, S., Bajracharya, P. , Li, Z., Wang, L. (2020). Semi-supervised Medical Image Classification with Global Latent Mixing. arXiv preprint arXiv:2005.11217. <i>Medical Image Computing and Computer Assisted Intervention(MICCAI), 2020</i>
	Indoor Odometry and Point Cloud Mapping Ligal, P. S., Acharya, B., Bajracharya, P. , Shrestha, P., Pokharel, P., Ghimire, S. K. Indoor Odometry and Point Cloud Mapping. <i>Proceedings of IOE Graduate Conference, 2017</i>
Experience	Research Assistant Jun 19 - Present Computational Biomedicine Lab Rochester Institute of Technology, NY, US Research area: Bayesian active learning and its use for uncertainty quantification in multiscale multi-physics models. Currently working on Deep Active Learning to model from limited annotated medical data.
	Teaching Assistant Aug 18 - May 19 Imaging Science Department Rochester Institute of Technology, NY, US

Teaching Assistant

Department of Electronics and Computer Engineering
Pulchowk Campus, Tribhuvan University, Nepal

April 16 - Aug 16**System Engineer**

E&T Nepal Pvt. Ltd., Lokanthali, Bhaktapur, Nepal

Development of Calculation Solver for CFD simulation with CUDA on NVIDIA GPUs for simulation software "MUJO"

Nov 15 - April 16**Extra Projects****Gesture recognition for understanding American Sign Language**

A deep learning based implementation of gesture recognition on Kaggle MNIST dataset and Kaggle dataset for ASL Alphabet to understand the gesture hand shapes signed in front of a camera.

- **Tools:** Keras and OpenCV

Certification

- **Neural Networks and Deep Learning** by deeplearning.ai on *Coursera*

Verify : coursera.org/verify/3MPX68UEQPTL

- **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization** by deeplearning.ai on *Coursera*

Verify : coursera.org/verify/BGCCNBWNM5LY

- **Build Basic Generative Adversarial Networks (GANs)** by deeplearning.ai on *Coursera*

Verify : coursera.org/verify/4LNV43GKRDUM

- **Bayesian Methods for Machine Learning** by National Research University Higher School of Economics on *Coursera*

Ongoing