Bikash Gyawali

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Education

2013 − 2016 **PhD in Computer Science**, Université de Lorraine, France.
Specialisation : Computational Linguistics

2009 − 2011 **Erasmus Mundus Masters in Computer Science**, Université de Lorraine, France & University of Malta, Malta.
Specialisation : Computational Linguistics

2003 − 2007 **Bachelor in Information Technology**, Purbanchal University, Nepal.

Scholarships

Google Grant **Google Grant for attending Lisbon Machine Learning School (LxMLS 2014)**.

PhD Study **Doctoral Contract, 2013 − 2015**, French Research and Education Ministry.

Masters Study **Erasmus Mundus Scholarship, 2009 − 2011**, European Commission.

Bachelor Study **Full tuition fee waiver, 2003 − 2007**, Himalayan WhiteHouse Int'l College.

Theses

PhD Thesis **Surface Realisation from Knowledge Bases**.
2016 I proposed novel methods for generating textual descriptions of RDF triples based on learning from training examples of KB/text pairs.

Masters Thesis **Answering Factoid Questions via Ontologies : A Natural Language Generation Approach**.
2011 I proposed an approach for generating questions and answers over concepts and relations present in ontologies.

Work

December 2015 **Post Doctoral Researcher**, CNRS, France.
− Present My current research focuses on training deep neural networks to map natural language text to formal models (Semantic Parsing) and vice versa (Generation).

November 2008 **IT Officer**, Nepal SBI Bank Limited, Kathmandu, Nepal.
− August 2009 I worked on the design and implementation of the bank's inter-branch computer network.

PUBLICATIONS

2017   **ModelWriter: Text and Model-Synchronized Document Engineering Platform**, Ferhat Erata, Claire Gardent, Bikash Gyawali, Anastasia Shimorina, Yvan Lussaud, Bedir Tekinerdogan, Geylani Kardas & Anne Monceaux, *32nd IEEE/ACM International Conference on Automated Software Engineering (ASE 2017), Illinois, U.S.*

2017   **Mapping Natural Language to Description Logic**, Bikash Gyawali, Anastasia Shimorina, Claire Gardent, Samuel Cruz-Lara & Mariem Mahfoudh, *14th Extended Semantic Web Conference (ESWC 2017), Portoroz, Slovenia*.

2015   **A Domain Agnostic Approach to Verbalizing n-ary Events without Parallel Corpora**, Bikash Gyawali, Claire Gardent & Christophe Cerisara, *15th European Workshop on Natural Language Generation (ENLG 2015), Brighton, U.K*.

2015   **Automatic Verbalisation of Biological Events**, Bikash Gyawali, Claire Gardent & Christophe Cerisara, *3rd International Workshop on Definitions in Ontologies (IWOOD 2015), Lisbon, Portugal*.

2014   **Surface Realisation from Knowledge-Bases**, Bikash Gyawali & Claire Gardent, *52nd Annual Meeting of the Association for Computational Linguistics (ACL 2014), Baltimore, U.S*.

2013   **LOR-KBGEN, A Hybrid Approach to Generating from the KBGen Knowledge-Base**, *Bikash Gyawali & Claire Gardent, 14th European Workshop on Natural Language Generation (ENLG 2013), Sofia, Bulgaria*.

TEACHING EXPERIENCE

March 2016 – June 2016   **Python Programming Instructor**, Université de Lorraine, Nancy, France.
I delivered Python programming sessions to Bachelor 3rd year students in Computer Science.

November 2007 – November 2008   **Lecturer**, Himalayan WhiteHouse Int'l College, Kathmandu, Nepal.
I taught introductory level programming courses to students in Computer Science department.

August 2002 – November 2003   **Teaching Assistant**, Birendra Sainik Awasiya Mahavidhyalaya, Bhaktapur, Nepal.
I worked as an academic mentor to junior high school students.

TRAININGS

LxMLS 2014   **4th Lisbon Machine Learning Summer School**, Lisbon, Portugal.

Coursera   **Machine Learning**.

Project Contributions

European Project
ModelWriter : Building integrated authoring environment for text and KB. I worked as the lead developer for building Semantic Parser engine for the project. Achieved work package goals in time and represented our team in several meetings, reviews and demos.

Hands-on Experience

NLP Tools Stanford CoreNLP, Weka, NLTK   **ML Tools** Deeplearning4j, PyTorch

Programming Java, Python, JavaScript, HTML   **Others** Unix/Windows, Git, LaTeX

Research Interests

- Deep Learning Approaches to NLP
- Semantic Parsing/Generation
- Information Retrieval