TREVOR BONJOUR

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EDUCATION

Johns Hopkins University, Baltimore, MD	
Master of Science and Engineering in Computer Science [GPA: 3.9/4]	Aug 2015 – May 2017
Guru Gobind Singh Indraprastha University, Delhi, India	
Bachelor of Technology in Instrumentation and Control Engineering	Aug 2006 – May 2010

RESEARCH EXPERIENCE

Malone Center for Engineering in Healthcare, JHU	
Research Assistant	May 2016 – Aug 2016
Worked on novel techniques for handling data missing not at random	
Center for Language and Speech Processing, JHU	
Research Assistant	January 2016
Compared different learning techniques for discovering morphological paradigms for various languages	

TEACHING EXPERIENCE

Head Teaching Assistant, Johns Hopkins University	
EN.600.226 Data Structures	Fall 2016
EN.600.226.21 Data Structures	Summer 2016

PROFESSIONAL EXPERIENCE

Tata Consultancy Services Ltd.	
I.T. Analyst	Nov 2010 – Aug 2015
Lead the project development team	
Designed technical solutions and performed feasibility analysis	
Customized applications to enhance functionality and meet user requirements	

ACADEMIC PROJECTS

Causal Identification when true graph structure is unknown	Ongoing
Working on developing a method to identify causal effects from observational data without assuming a unique true causal structure	
ASLA – American Sign Language Assistant	Fall 2016
Converted American Sign Language gestures to Speech/Text. Used Leap Motion to extract relevant features and SVM classifier for prediction	
Topic Modelling using Automatic Differentiation Variational Inference (ADVI)	Spring 2016
Implemented ADVI for topic modelling. Compared it to Classical and Stochastic Variational Inference techniques	
MLaaS – Machine Learning as a Service for exploring large datasets	Fall 2015
Used deep neural networks to learn on BPTI protein trajectories for multiple users leveraging commonalities	
Classification of Piano music by Composers	Fall 2015
Used various machine learning techniques like SVM, Naïve Bayes, k-fold Cross Validation and PCA to classify and analyze the results.	

TECHNICAL SKILLS AND CERTIFICATION

Programming Languages: Java, Python, R, SQL
Frameworks/Tools: R Studio, Eclipse, IntelliJ, PyCharm, Git, Maven, Junit Testing, SparkJava
Web/App: RESTful, SOAP, IBM Websphere
Certification: IBM Certified Deployment Professional