Nabiha Asghar

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HIGHLIGHTS	◇ **Skills:** Natural Language Processing, Machine Learning, Deep Learning, Algorithms, Probabilistic Models, Python, AWS, Linux, Git, Technical Writing
	◇ **Experience:** Applied Scientist (NLP) at *Microsoft*, NLP Engineer at *Textio*; Data Scientist at *ProNavigator*.
	◇ **Publications:** NeuCAIR @ ICLR'21, ICLR'20, AMTL @ ICML'19, ECIR'18, *SEM'17, UAI'15.

EDUCATION	◇ **University of Waterloo**, Waterloo, ON, Canada. Ph.D. in Computer Science (Sept 2014 - June 2020) Research Area: Deep Learning for Natural Language Generation
	◇ **University of Waterloo**, Waterloo, ON, Canada. M.Math. in Combinatorics & Optimization (Sept 2011 - June 2013) Research Area: Graph Theory
	◇ **Lahore University of Management Sciences**, Lahore, Pakistan. B.Sc. Honors. in Mathematics (2006-2010). CGPA: 3.91/4.00.

SKILLS	◇ Natural Language Processing, Machine Learning, Deep Learning, Probabilistic Modeling, Algorithm Analysis, Technical Writing
	◇ Python (PyTorch), Java, Linux, Git, AWS, Azure ML

SELECTED RESEARCH	◇ **N. Asghar**, I. Kobyzev, J. Hoey, P. Poupart, M.B. Sheikh. *Emotion Alignment in Neural Dialogue Generation.* arXiv:2003.03645. NeuCAIR Workshop at ICLR 2021.
	◇ **N. Asghar**, L. Mou, K. A. Selby, K. D. Pantasdo, P. Poupart, X. Jiang. *Progressive Memory Banks for Incremental Domain Adaptation.* International Conference on Learning Representations (ICLR), 2020.
	◇ **N. Asghar**, P. Poupart, J. Hoey, X. Jiang, L. Mou. *Affective Neural Response Generation.* 40th European Conference on Information Retrieval (ECIR), 2018.
	◇ **N. Asghar**, P. Poupart, X. Jiang, H. Li. *Deep Active Learning for Dialogue Generation.* 6th Joint Conference on Lexical and Computational Semantics (*SEM), 2017.
	◇ **N. Asghar**. *Automatic Extraction of Causal Relations from Natural Language Texts: A Comprehensive Survey.* arXiv:1605.07895, May 2016.
	◇ **N. Asghar**, J. Hoey. *Intelligent Affect: Rational Decision Making for Socially Aligned Agents.* 31st Conference on Uncertainty in Artificial Intelligence (UAI), 2015.
	◇ **N. Asghar**, J. Hoey. *Monte-Carlo Planning for Socially Aligned Agents using Bayesian Affect Control Theory.* University of Waterloo, Technical Report # CS-2014-21, 2014.

RELEVANT EXPERIENCE	◇ **Applied Scientist II**, *Microsoft* (May 2020 – Present). Building state-of-the-art text prediction models for search and Office.
	◇ **Software Engineer - NLP**, *Textio, Inc* (Aug 2019 – Apr 2020). Built predictive solutions for Textio's augmented writing platform using machine learning and mathematical modeling.

⋄ **Data Scientist - NLP**, *ProNavigator, Canada*, (Mar 2017 – Aug 2018).
Developed conversational AI for customer support (insurance domain).

⋄ **Research Associate - AI**, *University of Waterloo* (Jan – June 2014)
Researched and developed emotion modeling techniques in human-computer interaction via continuous POMDPs.

Honors &
Awards

⋄ **Ontario Graduate Scholarship**, 2015 – 2016, 2017 – 2019.

⋄ **Affiliate - Vector Institute for AI**, 2018 – 2019.

⋄ **President's Graduate Scholarship**, Univ. Waterloo, 2015 – 2016, 2017 – 2019.

⋄ **Huawei Distinguished Research Collaboration Award**, 2015 – 2016.

⋄ **David R. Cheriton Graduate Scholarship**, Univ. Waterloo, 2016 – 2018.

⋄ **Gold Medal (Mathematics)**, BSc. Hons., Lahore Univ. Management Sciences, 2010.