

Amin Hosseiny Marani

+1(646)291-7320 • Bethlehem, PA 18015 • aminhosseiny@gmail.com • aminmarani.github.io • LinkedIn • Google Scholar

EDUCATION

Lehigh University, Bethlehem, PA PhD, Computer Science Relevant Coursework: Machine Learning, NLP, Social Computing, Data Mining, Advanced Programming	<i>August 2018 - Present</i> GPA: 3.71/4
Iran University of Science and Technology, Tehran, Iran Master of Computer Engineering Relevant Coursework: Machine learning, Distributed AI, Neural Networks, Pattern Recognition	<i>2011 - 2014</i> GPA: 15.13/20
Shahid Chamran University, Ahvaz, Iran Bachelor of Computer Engineering	<i>2007 - 2011</i> GPA: 14.53/20 (Top 5%)

PUBLICATION

Amin Hosseiny Marani and Eric P. S. Baumer. 2023. A Review of Stability in Topic Modeling: Metrics for Assessing and Techniques for Improving Stability. *ACM Computing Surveys (CSUR)*.

Amin Hosseiny Marani, Joshua Levine, and Eric P. S. Baumer. 2022. One Rating to Rule Them All? Evidence of Multidimensionality in Human Assessment of Topic Labeling Quality. In *Proceedings of the 31st ACM International Conference on Information and Knowledge Management (CIKM '22)*, October 17–21, 2022, Atlanta, GA, USA. ACM, New York, NY, USA, 12 pages.

EXPERIENCE

Infinitus Systems <i>NLP Researcher (internship)</i>	San Francisco, CA <i>June 2023 - September 2023</i>
<ul style="list-style-type: none">Designed a Graph Neural Network empowered by LLMs (i.e., GPT) to predict next action for call automation over-performing the current system in successful call rate by 30% (published in NAACL 2024).	
Dana-Farber Cancer Institute Harvard Medical School <i>NLP Data Scientist (internship)</i>	Boston, MA <i>April 2021 - January 2022</i>
<ul style="list-style-type: none">Designed a new clinical text summarization pipeline using a combination of database techniques, traditional machine learning methods, and deep learning transformers (e.g., BERT and BioBERT).	
DESIGN, ALGORITHMS, AND SOCIETY (DAS) LAB <i>Graduate Research Assistant</i>	Lehigh University, Bethlehem, PA <i>2018-present</i>
<ul style="list-style-type: none">Designed a new labeling machine learning based evaluation model by combining a novel trained Graph Neural Network on article-frame features and BERT features of articles.Managed a study to capture race bias in machine learning evaluation by collecting human data through surveys, exploring features, and employing statistical techniques (e.g., Logistic Regression and ANOVA).	

SERVICES AND ACTIVITIES

President and Vice of the Iranian Students Association at Lehigh University (LUISA) <i>Co-organized 20 events for graduate students and 5 public events</i>	2021-2023
Secretary of Graduate Student Senate at Lehigh University	2022-2023
CSE Department Representative	2021-2023
Member of Upsilon Pi Epsilon society	2021-present
Reviewer <i>Reviewer of an Elsevier journal in the field of neural networks and machine learning</i>	NeuroComputing Journal <i>2017-present</i>
Reviewer <i>Reviewer of SAGE Journals in the field of topic modeling and social science</i>	SAGE Open <i>2021-present</i>
Reviewer <i>Reviewer of ACM CHI conference in Human-Computer-interaction and NLP applications</i>	ACM CHI <i>2021-present</i>
Reviewer <i>Reviewer of ACM Conference On Computer-Supported Cooperative Work And Social Computing</i>	ACM CSCW <i>2021-present</i>

COMPETITIONS AND AWARDS

Lehigh University Graduate Life Leadership Award	2023
Lehigh University Graduate Engineering Leadership and Service Award	2023
SIGIR Student Grant	2022
One of four finalist teams in eBay 2021 University Machine Learning Competition	2021