

# Nour K. Jedidi

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## EDUCATION

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<b>Carnegie Mellon University</b> <i>M.S. in Language Technologies, School of Computer Science</i>	<b>Pittsburgh, PA</b> <b>August 2020 – August 2022</b>
<ul style="list-style-type: none"><li>Relevant Coursework: Algorithms for NLP (PhD), Probabilistic Graphical Models (PhD), Neural Networks for NLP (PhD) Machine Learning for Text Mining, Bayesian Statistics (PhD), Causality and Machine Learning (PhD)</li></ul>	
<b>B.S. in Statistics and Machine Learning</b>	<b>August 2016 – May 2020</b>
<ul style="list-style-type: none"><li>Relevant Coursework: Algorithms &amp; Advanced Data Structures, Data Mining, Machine Learning, Deep Learning (PhD), Deep Reinforcement Learning, Time Series Analysis, Multivariate Statistics (PhD)</li></ul>	

## PROFESSIONAL EXPERIENCE

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<b>Carnegie Mellon University, Language Technologies Institute</b> <i>Graduate Research Assistant – Professor Jamie Callan</i>	<b>Pittsburgh, PA</b> <b>August 2020 – Present</b>
<ul style="list-style-type: none"><li>Researched and implemented algorithms for improving state-of-art neural NLP models (i.e., BERT, T5) for information retrieval and conversational search on the following projects: <b>Boeing Question Answering Project</b><ul style="list-style-type: none"><li>Designed methods to improve document representations for Boeing’s search engine and question answering system.</li><li>Trained a T5 model on Boeing’s airplane maintenance manuals to improve language understanding over a different domain.</li><li>Achieved 20% improvements in Recall@20 over the first-stage retrieval (BM25) baseline.</li></ul><b>Influence of Question-Answering Datasets on Query Generation</b><ul style="list-style-type: none"><li>Investigated the impact of different question-answering datasets (i.e., SQuAD) on query generation with language models.</li></ul><b>Neural Conversational Search</b><ul style="list-style-type: none"><li>Developed a pipeline that rewrites conversational queries into resolved search queries that achieves an NDCG@3 comparable to top systems in TREC CAST 2019 and 2020 automatic runs.</li></ul></li></ul>	
<b>Carnegie Mellon University</b> <i>Graduate Teaching Assistant</i>	<b>Pittsburgh, PA</b> <b>August 2020 – Present</b>
<ul style="list-style-type: none"><li>Served as a Teaching Assistant for Data Mining, Marketing Research, Pricing Strategy, and Digital Marketing.</li></ul>	
<b>Remesh</b> <i>Research Intern</i>	<b>New York, NY</b> <b>May 2019 – August 2019</b>
<ul style="list-style-type: none"><li>Implemented natural language processing and machine learning algorithms for the Remesh product platform to enable marketers to learn about their customers in real-time.</li><li>Developed an SVM classifier to predict whether moderators are asking poll-like or open-ended questions with 95% precision.</li><li>Constructed various semantic similarity algorithms using neural networks and unsupervised methods to group responses to open-ended questions.</li></ul>	
<b>Bowery Capital</b> <i>Summer Analyst</i>	<b>New York, NY</b> <b>May 2018 – August 2018</b>
<ul style="list-style-type: none"><li>Analyzed the competitive landscape for various portfolio companies and potential investments.</li><li>Led the process of drafting and presenting an investment memo for a potential portfolio company.</li><li>Built a database for portfolio company SupplyShift consisting of over 160 corporations’ environmental commitments relating to climate change, water, deforestation, energy, and waste.</li></ul>	

## RESEARCH PROJECTS

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<b>Causal Inference Using Text – A Comparison of Methods</b> <i>Advisors: Professors Dokyun Lee (Boston University) and Raghuram Iyengar (The Wharton School)</i>	<b>July 2021 – Present</b>
<ul style="list-style-type: none"><li>This project studies how different NLP methods (i.e., LDA, BERT) impact causal insights gathered from text data.</li></ul>	
<b>Consumption Ideology</b> <i>Advisors: Professors Bernd Schmitt (Columbia Business School) and Josko Brakus (University of Leeds)</i>	<b>May 2019 – January 2021</b>
<ul style="list-style-type: none"><li>Leveraged text mining techniques to assess ideology-related research in the academic marketing literature.</li><li>Applied LDA topic modeling on the text data to identify the themes of ideology research in marketing.</li></ul>	

## SKILLS

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**Programming:** C, Python, R, SAS (Base, Macros, Graph, Stat), PostgreSQL  
**Software/Frameworks:** PyTorch, TensorFlow, Keras, BeautifulSoup, ggplot  
**Extra Curricular:** CMU Club Basketball Team, Pittsburgh Donut Dash