

# Osama Khalid

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## Research Interests

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Machine Learning, Deep Learning, Natural Language Processing (NLP), Computational Linguistics  
Discourse Analysis, Figurative Language Processing, Stylometry, Sensorial Perception

## Education

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<b>Computer Science</b> <i>PhD</i> (Advisor: Dr. Padmini Srinivasan)	<b>University of Iowa</b> 2016 – Current
<b>Linguistics</b> <i>Master of Arts</i>	<b>University of Iowa</b> 2022 – Current
<b>Computer Science</b> <i>Master of Science</i>	<b>University of Iowa</b> 2016 – 2018
<b>Electrical Engineering</b> <i>Bachelor of Science</i>	<b>Lahore University of Management Sciences (LUMS)</b> 2009 – 2013

## Professional Experience

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- ML Developer** **Leapfrog Technologies Inc.** **Jun'18– Jun'19**  
○ Created and developed a course recommendation system. Worked on creating systems to optimize college student schedules. Deployed models to help college students with Major Selection.
- Intern** **Leapfrog Technologies Inc.** **Jun'17 – Aug'17**  
○ Prototyped and developed a machine learning algorithm which made use of an ensemble of classifiers to predict the majors of students based on their course history, with an accuracy of 81.38%.

## Technical skills

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- **Languages:** Python, Javascript, C++ MySQL, R
- **Platform & Tools:** PyTorch, TensorFlow, Weka, Matlab, LIWC

## Publications

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### Conferences

- Suum cuique: Studying bias in taboo detection with a community perspective.  
**Osama Khalid**, Jonathan Rusert, and Padmini Srinivasan.  
*Findings of the Association for Computational Linguistics (ACL-IJCNLP) 2022.*
- Style matters! investigating linguistic style in online communities.  
**Osama Khalid** and Padmini Srinivasan.  
*International AAAI Conference on Web and Social Media (ICWSM), 2020.*
- No place to hide: Inadvertent location privacy leaks on twitter.  
Jonathan Rusert, **Osama Khalid**, Dat Hong, Zubair Shafiq, and Padmini Srinivasan.  
*Privacy Enhancing Technologies (PETS), 2019.*

## Research Projects

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- **Sensorial Stylometry in Language:** This project introduces methods that use deep learning language models to capture the stylometric variations in the language used to encode sensorial experiences.
- **Analysing Bias in Taboo Language Detection:** The project uses a BERT based model to operationalize a community centered definition of Taboo to analyze bias in hate speech detectors.

- **Gender Acquisition in Polish:** In this project we use the CHILDES Polish corpus to model noun-adjective disagreements in grammatical gender amongst Polish speaking children.
- **Investigating linguistic style in Online Communities:** The project uses a broad definition of community style to analyze the linguistic style of online communities on reddit, 4chan and voat.