

# TIBERIU SOSEA

1410 W Polk Str 3R  
(+1) 574-520-2732 ◊ tsosea2@uic.edu

## EDUCATION

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**University of Illinois at Chicago, U.S.**  
Ph.D. - Natural Language Processing

*August 2019 - Present*  
Current GPA : 4.0

Department of Computer Science  
**Politehnica University of Bucharest, Romania**  
Bachelor of Engineering, Computer Science.

*October 2015 - July 2019*  
Overall Percentage: 90

## EMPLOYMENT

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**Google LLC**  
*Software Engineering Intern, PhD - Cloud AI Modeling*

*June 2021 - Present*

Developed a new multitasking architecture for a document sequence splitting and classification task. The developed architecture is more flexible, enables pre-training and is more scalable than the previous system.

**Google LLC**  
*Software Engineering Intern, PhD - Counter Abuse Research*

*June 2020 - August 2020*

Designed and implemented a robust and easily extensible parser, feature extractor and feature exporter for a machine learning pipeline aimed at detecting malicious PDF documents.

**University of Illinois at Chicago**  
*Research Assistant*

*December 2019 - June 2021*

Conducted research on emotion detection and multimodal disaster tweet classification.

**University of Illinois at Chicago**  
*Teaching Assistant - Systems Programming*

*August 2019 - December 2019*

Provided lab guidance to undergraduate students, held office hours, created and checked assignments.

**Politehnica University of Bucharest**

*October 2018 - July 2019*

*Undergraduate Teaching Assistant - Formal Languages and Automata, Parallel and Distributed Algorithms, Computer Graphics*

Held seminars and labs, checked exams and assignments.

## PUBLICATIONS

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**Tiberiu Sosea** and Cornelia Caragea: *eMLM: A New Pre-training Objective for Emotion Related Tasks* in ACL 2021

Yingjie Li, **Tiberiu Sosea**, Aditya Sawant, Ajith Jayaraman Nair, Diana Inkpen and Cornelia Caragea: *P-Stance: A Large Dataset for Stance Detection in Political Domain* in ACL Findings 2021

**Tiberiu Sosea**, Iustin Sirbu, Cornelia Caragea, Doina Caragea and Traian Rebedea: *Using the Image-Text Relationship to Improve Multimodal Disaster Tweet Classification* in ISCRAM 2021

**Tiberiu Sosea** and Cornelia Caragea: *CancerEmo: A Dataset for Fine-Grained Emotion Detection* in EMNLP 2020

## ONGOING RESEARCH

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- Using Area Under the Margin (**AUM**) ranking for unlabeled data selection in Semi-supervised Learning.
- **Fixmatch** extension and adaptation to a multimodal setting.

## LANGUAGES AND TECHNOLOGIES

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- Proficient - Tensorflow, Pytorch, Python, C++, C, Linux/Unix
- Good Understanding - Java, Docker
- Familiar - C#, Windows