

# CORINA FLORESCU

(+1)682-429-6123 ♦ CorinaFlorescu@my.unt.edu

University of North Texas, Denton, Texas

<https://corinaflorescu.github.io/cs/>

## SUMMARY

---

Research scientist with 3+ years of academic experience. I work in an area between machine learning, natural language processing, and text-mining. My research concerns the development of new methods for identifying short phrases in the text of a document such that those phrases best capture the topics of the target document. I have developed several methods which benefit the indexing of documents in digital libraries, and improve search, retrieval, and recommendation of documents. I am well connected in the academic community and have been presenting my work/tutorials to various natural language processing and data mining conferences.

## EDUCATION

---

### Doctor of Philosophy, Computer Science

University of North Texas, Denton, Texas

*January 2015 - Present*

### Master of Science, Databases

University of Bucharest, Bucharest, Romania

*2008 - 2010*

### Bachelor of Science, Computer Science and Mathematics

University of Bucharest, Bucharest, Romania

*2004 - 2008*

## TECHNICAL STRENGTHS

---

### Programming Languages

Python, Java, C++, SQL, MATLAB, LaTeX

### Software & Tools

TensorFlow, Keras, Weka, Hadoop

## EXPERIENCE

---

### Research Assistant

*University of North Texas, Denton, Texas*

*January 2015 - Present*

- Developed keyphrase extraction systems for extracting keyphrases from scholarly documents; This extraction task aids indexing of documents in digital libraries, and hence, leads to improved organization, search, retrieval, and recommendation of scientific documents.
- Developed a feature learning framework for automatically discover patterns that keyphrases express in relation with a graph representation of text.
- Developed a domain-independent supervised keyphrase extraction systems based on the learned phrase representations.
- Developed a ranking model to keyphrase extraction, such that the model can rank keyphrases according to their degree of representing the topic of a target document.

### Computer Science Teacher

*I. L. Caragiale High School, Bucharest, Romania.*

*September 2008 - October 2012*

- Taught programming languages (C++, SQL, PL/SQL, PHP)
- Designed lecture plans
- Evaluated students performance

## CERTIFICATIONS

---

*Oracle Academy: Database Design and Programming with SQL*, 2009

*Oracle Academy: Database Programming with PL/SQL*, 2010

## **SELECTED PUBLICATIONS**

---

Wei Jin, Corina Florescu. Improving Search and Retrieval in Digital Libraries by Leveraging Keyphrase Extraction Systems. In: Proceedings of the Joint Conference on Digital Libraries (JCDL 2018).

Corina Florescu, Wei Jin. Learning Feature Representations for Keyphrase Extraction. In: Proceedings of the American Association for Artificial Intelligence (AAAI 2018).

Corina Florescu, Cornelia Caragea. PositionRank: An Unsupervised Approach to Keyphrase Extraction from Scholarly Documents. In: Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL 2017).

Corina Florescu, Cornelia Caragea. A Position-Biased PageRank Algorithm for Keyphrase Extraction. In: Proceedings of the American Association for Artificial Intelligence (AAAI 2017).

## **FELLOWSHIPS & GRANTS**

---

Scholarship from American Association for Artificial Intelligence

Travel Grant from Women in Machine Learning

Toulouse Graduate School (TGS) Tuition Benefit Scholarship

## **ACADEMIC SERVICE**

---

Manuscript peer review, Natural Language Engineering Journal

Manuscript peer review, Transactions on Knowledge Discovery from Data

Manuscript peer review, Language Resources and Evaluation

## **PROFESSIONAL AFFILIATIONS**

---

Association for Computing Machinery (ACM)

Association for the Advancement of Artificial Intelligence (AAAI)