

# CORINA FLORESCU

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## SUMMARY

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Research scientist with 4+ 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 to identify 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 benefits the indexing in scholarly. 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

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<b>Doctor of Philosophy, Computer Science</b> University of North Texas, Denton, Texas	<i>January 2015 - Present</i>
<b>Master of Science, Databases</b> University of Bucharest, Bucharest, Romania	<i>2008 - 2010</i>
<b>Bachelor of Science, Computer Science and Mathematics</b> University of Bucharest, Bucharest, Romania	<i>2004 - 2008</i>

## TECHNICAL STRENGTHS

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<b>Programming Languages</b>	Python, Java, LaTeX, C++, MySQL, MATLAB
<b>Software &amp; Tools</b>	TensorFlow, Keras, Weka, Hadoop

## EXPERIENCE

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<b>Research Assistant</b> <i>University of North Texas, Denton, Texas</i>	January 2015 - Present
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- 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.
- Developed a domain-independent supervised keyphrase extraction systems based on the learned 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.

<b>Computer Science Teacher</b> <i>I. L. Caragiale High School, Bucharest, Romania.</i>	September 2008 - October 2012
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- Worked in a team of six people and came up with a model of Dragon with movable wings
- Taught programming languages (C++, SQL, PL/SQL, PHP)
- Designed lecture plans
- Evaluated students performance

## SELECTED PUBLICATIONS

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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**

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Scholarship from American Association for Artificial Intelligence

Travel Grant from Women in Machine Learning

Toulouse Graduate School(TGS) Tuition Benefit Scholarship

## **ACADEMIC SERVICE**

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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**

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Association for Computing Machinery (ACM)

Association for the Advancement of Artificial Intelligence (AAAI)