Efstathia (Fenia) Christopoulou

POSTDOCTORAL RESEARCHER | NACTEM, THE UNIVERSITY OF MANCHESTER

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RESEARCH INTERESTS

Artificial Intelligence , Natural Language Processing (NLP), Deep Learning, Relation Extraction within and across sentences, Graph-based Methods for NLP, Common-sense reasoning for NLP

EDUCATION

PH.D. IN COMPUTER SCIENCE   Sep 2016 - Feb 2020
The University of Manchester, *Manchester, UK*

Advisor: Prof. Sophia Ananiadou

Dissertation: "Textual Relation Extraction with Edge-oriented Graph Neural Models"

BENG - MSC IN ELECTRICAL & COMPUTER ENGINEERING   Sep 2010 - Jul 2016
National Technical University of Athens, *Athens, Greece*

Major: Computer Science,   *Minor*: Electrical Engineering,   *Cumulative GPA*: 8.22/10

Advisor: Prof. Alexandros Potamianos

Thesis: "Sentence-level Sentiment Analysis using Topic Modeling"

PROFESSIONAL EXPERIENCE

POSTDOCTORAL RESEARCHER   Nov 2019 - Present
The University of Manchester, *Manchester, UK*

- Working on weakly-supervised Relation Extraction

RESEARCH INTERN   Jan 2018 - Mar 2018
Artificial Intelligence Research Center (AIST/AIRC), *Tokyo, Japan*
Advisor: Prof. Makoto Miwa (Toyota Technological Institute, Nagoya, Japan)

- Developed neural, graph-based architectures for sentence-level Relation and Event Extraction

TEACHING ASSISTANT   Nov 2016 - Nov 2018
The University of Manchester, *Manchester, UK*

- First Year Project (10120), Computer Graphics and Image Processing (27112), Operating Systems (25111)

UNDERGRADUATE RESEARCHER   Jun 2015 - Jul 2016
Institute for Language and Speech Processing (ILSP), *Athens, Greece*
Advisor: Prof. Alexandros Potamianos

- Worked on Sentiment Analysis for sentences and Distributional Semantic Models

Publications

Conference Papers

4. **Fenia Christopoulou**, Makoto Miwa, Sophia Ananiadou. "Connecting the Dots: Document-level Relation Extraction with Edge-oriented Graph Neural Models". In: *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2019

3. Sunil Kumar Sahu, **Fenia Christopoulou**, Makoto Miwa, Sophia Ananiadou. "Inter-sentence Relation Extraction with Document-level Graph Convolutional Neural Network". In: *Association of Computational Linguistics (ACL)*, 2019

2. **Fenia Christopoulou**, Makoto Miwa, Sophia Ananiadou. "A Walk-based Model on Entity Graphs for Relation Extraction". In: *Association of Computational Linguistics (ACL)*, 2018

1. **Fenia Christopoulou**, Eleftheria Briakou, Elias Iosif, Alexandros Potamianos. "Mixture of Topic-based Distributional Semantic and Affective Models". In: *IEEE International Conference on Semantic Computing (ICSC)*, 2018

Journal Papers

1. **Fenia Christopoulou***, Thy Thy Tran*, Sunil Kumar Sahu, Makoto Miwa, Sophia Ananiadou. "Adverse Drug Events and Medication Relation Extraction in Electronic Health Records with Ensemble Deep Learning Methods". In: *Journal of the American Medical Informatics Association (JAMIA)*, 2020

Workshop Papers

1. Elisaver Palogiannidi, Athanasia Kolovou, **Fenia Christopoulou**, Filippos Kokkinos, Elias Iosif, Nikolaos Malandrakis, Haris Papageorgiou, Shrikanth Narayanan, Alexandros Potamianos. "Tweester at SemEval-2016 Task 4: Sentiment analysis in Twitter using semantic-affective model adaptation". In: *International Workshop on Semantic Evaluation (SemEval)*, 2016 **[Shared Task Winner]**

Invited Talks

Apr 2020   ADEs and Medication Relation Extraction in EHRs with ensemble Deep Learning Methods
JAMIA Journal Club

Nov 2019   Neural Relation Extraction with Edge-oriented Graph Neural Models
The University of Sheffield, Autumn NLP Seminars

Skills & Misc

Programming	Python (Advanced), C (Basic), Unix Shell Scripting (Basic)
Typesetting	LaTeX, Microsoft Word
Machine Learning	Matlab, Weka
Neural Networks	PyTorch, Chainer
Languages	Greek (Mother tongue), English (ECPE), French (Dalf C2)
Reviewing	ACL 2020, COLING 2020, EMNLP 2019, BioNLP 2019-2020
	IEEE Access, BMC Bioinformatics, JAIR, PLOS ONE
Online Courses	Machine Learning (Stanford University - Coursera)

Honors & Awards

2018   Association for Computational Linguistics Travel Award (ACL Walker Fund)
2016   James Elson Ph.D. Studentship Award (3-year Scholarship)
2016   1st place in SemEval-2016 Task 4, Subtask B: NTUA-USC Team
2010   Eurobank EFG Fellowship