

# Nikos Papasarantopoulos

## contact

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## skills



greek (native), english (full professional proficiency), turkish (basic)



Linux, Windows, MacOS



Office suites,  $\LaTeX$



Python, Java



HTML5, CSS3, Javascript, JQuery, Ajax, Wordpress



PyTorch, TensorFlow, NumPy, SciPy, scikit-learn, huggingface tools



git



gitlab, Jenkins



MySQL, PostgreSQL, some exposure to graph databases and MongoDB

## other

elastic stack, Django, Cordova

## professional experience

### senior data scientist

Priceline

Data Science team

📅 09.2022 – today

### research scientist

Huawei Technologies UK R&D, Edinburgh Research Centre

Knowledge Graph team

📅 09.2019 – 09.2022

- research on Natural Language Processing (NLP) applications over Knowledge Graphs. Results are disseminated in technical reports, presentations, research papers, and patent applications.
- work on various stages of research cycle: literature review, brainstorming, prototype implementation, experiments, scalability optimisations and related engineering problems.
- introduced team to development best practices for research, including testing, code reviews, and CI/CD.

### research engineer

Institute for Language and Speech Processing, Athena RC

Natural Language Processing and Language Infrastructure department

📅 01.2014 – 02.2016

- NLP for search engine customisation and multilingual support: developed filters/plugins for Apache Solr and Elasticsearch.
- implemented/enhanced search functionality in several web applications, resulting in improved search quality (verified by human evaluation).
- involvement in research-oriented projects, on entity linking, question answering, and information extraction using knowledge bases.

### web and mobile apps developer

freelance

📅 01.2014 – 12.2016

- website applications (Django) and REST services (Java and Python).
- website customisation and administration (Joomla, Wordpress).
- mobile apps implementation using Cordova.

## education

### PhD in NLP and Machine Learning

School of Informatics, University of Edinburgh

📅 03.2016 – 08.2019

- thesis: "Multi-view Representation Learning for Natural Language Processing Applications", supervisor: Shay Cohen.
- worked in SUMMA project, funded by EU H2020.

### MEng in Electrical and Computer Engineering

School of ECE, National Technical University of Athens

📅 09.2006 – 09.2012

Computer Engineering Major, 2:1

## interests

music ten-year studies in classical guitar, six year studies in byzantine chant music, ten years performing greek traditional and turkish music (kanun)

## photography

## other activities

### conference reviewing

AAACL (2020, 2022), ACL (2019, 2021, 2023), EAACL (2021, 2023), EMNLP (2018, 2019, 2020, 2021, 2022), IJCAI(2020), LREC (2022), NAACL (2021)

### teaching

School of Informatics, University of Edinburgh, 2017 – 2019

- tutor and marker in "Informatics Research Review" (2018 – 2019)
- marker in "Processing Formal and Natural Languages" (2017 – 2018, 2018 – 2019)
- teaching assistant in "Topics in Natural Language Processing" (2017 – 2018)
- tutor in "Accelerated Natural Language Processing" (2017 – 2018)

School of ECE, National Technical University of Athens, 2007 – 2008

- demonstrator, "Introduction to Computer Programming"

private tutor, 2007 – 2016

- tutoring high school students.
- student preparation for Greek national university entrance exams.

## publications

Tianyi Li, Wenyu Huang, Nikos Papasarantopoulos, Pavlos Vougiouklis, and Jeff Z. Pan. Task-specific pre-training and prompt decomposition for knowledge graph population with language models. arXiv, abs/2208.12539, 2022.

Georgios Stoilos, Nikos Papasarantopoulos, Pavlos Vougiouklis, and Patrik Banský. Type linking for query understanding and semantic search. KDD Applied Data Science Track, 2022.

Nikos Papasarantopoulos and Shay B. Cohen. Narration generation for cartoon videos. arXiv, abs/2101.06803, 2021.

Nikos Papasarantopoulos, Lea Frermann, Mirella Lapata, and Shay B. Cohen. Partners in crime: Multi-view sequential inference for movie understanding. In Proceedings of EMNLP-IJCNLP, 2019.

Shashi Narayan, Ronald Cardenas, Nikos Papasarantopoulos, Shay B. Cohen, Mirella Lapata, Jiangsheng Yu, and Yi Chang. Document modeling with external attention for sentence extraction. In Proceedings of ACL, 2018.

Nikos Papasarantopoulos, Helen Jiang, and Shay B. Cohen. Canonical correlation inference for mapping abstract scenes to text. In Proceedings of AAAI, 2018.

Shashi Narayan, Nikos Papasarantopoulos, Mirella Lapata, and Shay B. Cohen. Neural extractive summarization with side information. arXiv, abs/1704.04530, 2017.

Renars Liepins et al. The SUMMA platform prototype. In Proceedings of EAACL, Software Demonstrations, 2017.

Konstantina Papanikolaou, Haris Papageorgiou, Nikos Papasarantopoulos, Theoni Stathopoulou, and George Papastefanatos. "Just the facts" with PALOMAR: Detecting protest events in media outlets and twitter. In Proceedings of International AAAI Conference on Web and Social Media, 2016.

Nikos Papasarantopoulos, Nick Poulakis, and Christina Anagnostopoulou. A computational analysis study of children's songs from different countries. In Proceedings of the Ninth Triennial Conference of the European Society for the Cognitive Sciences of Music (ESCOM), 2015.

Georgios Stratogiannis, Nikos Papasarantopoulos, Maria Pontiki, Giorgos Siolas, Dimitris Galanis, Andreas Stafylopatis, and Haris Papageorgiou. NTUA ILSP in the TAC KBP 2014 Entity Linking Challenge. 2014.