



# NIKOLAOS STYLIANOU

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## EDUCATION

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- Aristotle University of Thessaloniki** *2017 – 2021*  
Doctor of Philosophy, Computer Science  
-Thesis: Natural Language Processing & Information Extraction — Advisor: Ioannis Vlahavas
- University of Essex** *2014 – 2015*  
Master of Science, Big Data and Text Analytics  
- Thesis: Sentiment Analysis on Social Media — Advisor: Massimo Poessio
- University of Essex** *2011 – 2014*  
Bachelor of Science, Computer Science  
- Thesis: Personalised Search Engine — Advisor: Udo Kruschwitz

## EXPERIENCE

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### Research Experience

- Information Technologies Institute (ITI/CERTH)** *Mar 2022 – present*  
*Postdoctoral Research Fellow*
- Aristotle University of Thessaloniki** *Nov 2021 – Feb 2022*  
*Postdoctoral Research Fellow*
- Aristotle University of Thessaloniki** *Apr 2017 – Nov 2021*  
*Research Assistant, with Ioannis Vlahavas*

### Academic Experience

- Aristotle University of Thessaloniki** *Feb 2022 – present*  
*Adjunct Lecturer, NIS-08-02 Operational Research and Business Intelligence*

### Industry Experience

- Supreme Joint War College** *Dec 2015 – Aug 2016*  
*Developer and Systems Analyst*

## TECHNICAL AND PERSONAL SKILLS

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### Programming/markup Languages:

Proficient in Python, Java, C++, LaTeX, Markdown  
Also ability with Matlab, SQL, PHP, JavaScript, HTML

### Technological Skills:

Proficient in Pytorch, Tensorflow, NumPy/SciPy, Matplotlib  
Also ability with SLURM and Docker

### Research Skills:

Good mathematical background, good writing skills, works well in a team and can lead projects.

### Languages:

Proficient in English and Greek (First Language)

## SELECTED PUBLICATIONS (See [Google Scholar](#) for a full list)

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**Stylianou, Nikolaos** and Ioannis Vlahavas. “TransforMED: End-to-End Transformers for Evidence-Based Medicine and Argument Mining in medical literature” *Journal of Biomedical Informatics* 117 (2021): 103767

**Stylianou, Nikolaos** and Ioannis Vlahavas. “A Neural Entity Coreference Resolution Review.” *Expert Systems With Applications* 168 (2021): 114466

**Stylianou, Nikolaos** and Ioannis Vlahavas, “ET: Entity-Transformers. Coreference augmented Neural Language Model for richer mention representations via Entity-Transformer blocks.” in: *Proceedings of the Third Workshop on Computational Models of Reference, Anaphora and Coreference*, Association for Computational Linguistics, Barcelona, Spain (online). pp. 1–10.

**Stylianou, Nikolaos**, Gerasimos Razis, Dimitrios G. Goulis, and Ioannis Vlahavas. “EBM+: Advancing Evidence-Based Medicine via two level automatic identification of Populations, Interventions, Outcomes in medical literature.” *Artificial Intelligence in Medicine* 108 (2020): 101949.

## OTHER EXPERIENCES

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**University of Essex, Student’s Union** *Sep 2012 – Jul 2014*  
*Vice President of Hellenic Society*

Organised activities for society members and charity events.

**University of Essex, Student’s Union** *Sep 2012 – Jul 2012*  
*Charity and Fundraising committee member*

Part of the committee responsible for organising and running charitable and fundraising events as well as working with the Student Union’s volunteering team to provide support to the local community.

## AWARDS

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**Academic**  
**State Scholarships Foundation (IKY) - Full Graduate Scholarship** *2018*

**Miscellany**  
**Tae Kwon Do: Red Belt**

## SERVICE

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**Teaching**  
**Aristotle University of Thessaloniki, School of Informatics**  
*Teaching assistant, AI101 Machine Learning* *Apr 2017 – Jul 2021*  
*Teaching assistant, NCO-04-02 Artificial Intelligence* *Apr 2017 – Jul 2021*

**University of Essex, CSEE Department**  
*Peer Mentor* *Sep 2013 – Jul 2014*

**Reviewing**  
**Journals**  
*Journal of Biomedical Informatics, Expert Systems with Applications, Artificial Intelligence in Medicine, Neural Computing and Applications, International Journal of Artificial Intelligence Tools*

**Conferences**  
*Association for Computational Linguistics (ARR), EETN Conference on Artificial Intelligence 2018, 18th International Conference on Artificial Intelligence Applications and Innovations (Program Committee)*