

# Konstantinos Skianis

Founder @BLUAI, @Primehost

[y3nk0.github.io](https://y3nk0.github.io) & [bluai.gr](https://bluai.gr) & [primehost.ai](https://primehost.ai)

Google Scholar: [scholar.google.com/citations?user=hG2ozuEAAAAJ](https://scholar.google.com/citations?user=hG2ozuEAAAAJ)

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AREAS	Machine Learning, Deep Learning, Data Science, Natural Language Processing	
PROFESSIONAL EXPERIENCE	<b>Founder, R&amp;D, PrimeHost</b> Automate guest conversations with AI	<b>October, 2023 - present</b>
	<b>Founder, R&amp;D, BLUAI</b> AI, NLP, ML solutions and consulting	<b>June, 2020 - present</b>
	<b>Researcher, NKUA</b> Department of Port Management and Shipping	<b>January, 2022 - June 2023</b>
	<b>Adjunct Professor (Academic Scholar), AUEB</b> Data Mining and Science undergraduate course	<b>March, 2022 - September 2022</b>
	<b>Senior Researcher, CLMS</b> EU programs R&D	<b>September, 2020 - March 2022</b>
	<b>Postdoctoral Researcher, École Polytechnique</b> Research, supervision	<b>March, 2019 - June 2020</b>
	<b>Research Engineer, École Polytechnique &amp; Airbus</b> Data Mining, Machine Learning, Data Visualization	<b>July, 2013 - September, 2014</b>
EDUCATION	<b>École Polytechnique</b> , Palaiseau, France ( <a href="#">DaSciM team</a> )	
	Ph.D. Candidate, October 2015 - February 2019	
	<ul style="list-style-type: none"><li>• Topic: <a href="#">“Novel Representations, Regularization and Distances for Text Classification”</a></li><li>• Advisors: Prof. Michalis Vazirgiannis &amp; Prof. Guillaume Wisniewski</li></ul>	
	<b>École Normale Supérieure Paris-Saclay</b> , Paris, France	
	M.Sc., Math, Computer Vision and Machine Learning ( <a href="#">MVA</a> ) 2014-2015	
	Specialization: Graph & Text Mining	
	<b>Athens University of Economics and Business</b> , Athens, Greece	
	B.Sc., Computer Science, May 2013	
HONORS AND AWARDS	Specialization: Data Mining & Web Crawling	
	<b>École Polytechnique Jeune Post-doc Fellowship</b> , March-May 2019	
	Awarded a 3-month post-doc research grant	
	<b>École Polytechnique Ph.D. Fellowship</b> , 2015	
	Awarded the Ph.D. research grant for 2015-2018	
PUBLICATIONS	1. <a href="#">On the Trade-off between Over-smoothing and Over-squashing in Deep Graph Neural Networks</a> J. Giraldo, K. Skianis, A. Giannopoulos, T. Bouwmans, F. Malliaros <b>CIKM 2023</b> (Conference)	

2. [Digital Twin for Automated Industrial Optimization: Intelligent Machine Selection via Process Modelling](#)  
K. Skianis, A. Giannopoulos, A. Kalafatelis, P. Trakadas  
**IAICT 2023** (Conference)
3. [SWIRL: Statistical downscaling for Wind Pattern Reconstruction using Machine Learning](#)  
K. Skianis, A. Giannopoulos, S. Spantideas, M. Hatzaki, A. Karditsa, P. Trakadas  
**CEST 2023** (Conference)
4. [Predicting COVID-19 positivity and hospitalization with multi-scale graph neural networks](#)  
K. Skianis, G. Nikolentzos, B. Gallix, R. Thiebaut, G. Exarchakis  
**Nature Scientific Reports 2022** (Journal)
5. [Towards Fine-Dining Recipe Generation with Generative Pre-trained Transformers](#)  
K. Katserelis, K. Skianis  
**arxiv 2022** (Journal)
6. [Moderate COVID-19: Clinical Trajectories and Predictors of Progression and Outcomes](#)  
A. G. Pappas, A. Panagopoulos, A. Rodopoulou, M. Alexandrou, A. Chaliasou, K. Skianis, E. Kranidioti, E. Chaini, I. Papanikolaou, I. Kalomenidis  
**Journal of Personalized Medicine 2022** (Journal)
7. [Evaluation of Machine Translation Methods applied to Medical Terminologies](#)  
K. Skianis, F. Desgrippes, Y. Briand  
**LOUHI, EMNLP 2020** (Workshop)
8. [Boosting Tricks for Word Mover's Distance](#)  
K. Skianis, F.D. Malliaros, N. Tziortziotis, M. Vazirgiannis  
**ICANN 2020** (Conference)
9. [Rep the Set: Neural Networks for Learning Set Representations](#)  
K. Skianis, G. Nikolentzos, S.Limnios, M. Vazirgiannis  
**AISTATS 2020** (Conference)
10. [GraKel: Graph Kernels in Python](#)  
G. Nikolentzos, I. Siglidis, S. Limnios, C. Giatsidis, K. Skianis, M. Vazirgiannis  
**JMLR 2020** (Journal)
11. [Evaluation of Greek Word Embeddings](#)  
S.Outsios, C. Karatsalos, K. Skianis, M. Vazirgiannis  
**LREC 2020** (Conference)
12. [Scientometrics for Success and Influence in the Microsoft Academic Graph](#)  
G. Panagopoulos, C. Xypolopoulos, K. Skianis, C. Giatsidis, J. Tang, M. Vazirgiannis  
**Complex Networks 2019** (Conference)
13. [Word Embeddings from Large-scale Greek Web Content](#)  
S.Outsios, K. Skianis, P. Meladianos, C. Xypolopoulos, M. Vazirgiannis  
**arXiv 2018**
14. [Orthogonal Matching Pursuit for Text Classification](#)  
K. Skianis, N. Tziortziotis, M. Vazirgiannis  
**WNUT, EMNLP 2018, Brussels, Belgium** (Workshop)
15. [Fusing Document, Collection and Label Graph-based Representations with Word Embeddings for Text Classification \(Best Paper Award\)](#)  
K. Skianis, F. Malliaros, M. Vazirgiannis  
**TextGraphs, NAACL 2018, New Orleans, USA** (Workshop)
16. [Kernel Graph Convolutional Neural Networks](#)  
G. Nikolentzos, P. Meladianos, A. J.-P. Tixier, K. Skianis, M. Vazirgiannis  
**ICANN 2018, Rhodes, Greece** (Conference)

17. [Data Management for the World Wealth & Income Database](#)  
K. Skianis, M. Vazirgiannis, L. Chancel, T. Piketty et. al.  
**ParisBD 2017**, *Paris, France* (Poster)
18. [SpreadViz: Analytics and Visualization of Spreading Processes in Social Networks](#)  
K. Skianis, MEG. Rossi, F. D. Malliaros, M. Vazirgiannis  
**ICDM 2016**, *Barcelona, Spain* (Demo)
19. [Regularizing Text Categorization with Clusters of Words](#)  
K. Skianis, F. Rousseau, M. Vazirgiannis  
**EMNLP 2016**, *Austin, USA* (Conference)
20. [GoWvis: a web application for Graph-of-Words-based text visualization and summarization](#)  
A. J.-P. Tixier, K. Skianis, M. Vazirgiannis  
**ACL 2016**, *Berlin, Germany* (Demo)
21. [Graph-Based Term Weighting for Text Categorization](#)  
F. Malliaros, K. Skianis  
**Someris, ASONAM 2015**, *Paris, France* (Workshop)

#### REVIEWS

- 2023: ACL
- 2021: NAACL
- 2020: EMNLP
- 2019: NAACL, LLD @ICLR
- 2018: NIPS, WWW, EMNLP, ECML-PKDD
- 2017: AAAI, LLD @NIPS, EMNLP
- 2016: AAAI, WSDM, IC<sup>2</sup>S<sup>2</sup>

#### TEACHING

- 2022: Teaching the Data Mining and Science undergraduate course  
*Full teaching - Department of Informatics , AUEB*
- 2019: Executive training for companies: Lectures & labs on text mining and deep learning  
*Full teaching - [DSSP](#), [EXED](#)*
- 2017: Learning for Text and Graph Data: Labs with Python  
*Labs - Licence, Master M2 @ Ecole Polytechnique*

#### COMPETITIONS

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| <b>6th place, National Bank of Greece Race</b><br>Training greek word embedding from legal texts.                                | <b>April 2019</b>   |
| <b>2nd place, Fintech Crowdhackathon</b><br>Detecting fraud e-transactions based on deep learning.                               | <b>April 2016</b>   |
| <b>2nd place, DREEM challenge</b> (inclass Kaggle)<br>DREEM introduces a way to increase the duration and quality of deep sleep. | <b>January 2015</b> |
| <b>6th place, Data Mining Cup</b><br>Berlin, Germany   | <b>July 2013</b>    |

TECHNICAL SKILLS	Coding Systems Tools	Python, Java, C, C++ SQL, Matlab, D3js, L <sup>A</sup> T <sub>E</sub> X Kubernetes, Elasticsearch Keras, Tensorflow, PyTorch, Spark, Hadoop
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ADDITIONAL INFORMATION	Languages	Greek - Native English - Fluent German - Good French - Good
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