

Konstantinos Skianis

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AREAS	Machine Learning, Deep Learning, Data Science, Natural Language Processing	
PROFESSIONAL EXPERIENCE	Founder, R&D, PrimeHost Automate guest conversations with AI	October, 2023 - present
	Founder, R&D, BLUAI AI, NLP, ML solutions and consulting	June, 2020 - present
	Researcher, NKUA Department of Port Management and Shipping	January, 2022 - June 2023
	Adjunct Professor (Academic Scholar), AUEB Data Mining and Science undergraduate course	March, 2022 - September 2022
	Senior Researcher, CLMS EU programs R&D	September, 2020 - March 2022
	Postdoctoral Researcher, École Polytechnique Research, supervision	March, 2019 - June 2020
	Research Engineer, École Polytechnique & Airbus Data Mining, Machine Learning, Data Visualization	July, 2013 - September, 2014
EDUCATION	École Polytechnique , Palaiseau, France (DaSciM team)	
	Ph.D. Candidate, October 2015 - February 2019	
	<ul style="list-style-type: none">• Topic: “Novel Representations, Regularization and Distances for Text Classification”• Advisors: Prof. Michalis Vazirgiannis & Prof. Guillaume Wisniewski	
	École Normale Supérieure Paris-Saclay , Paris, France	
	M.Sc., Math, Computer Vision and Machine Learning (MVA) 2014-2015	
	Specialization: Graph & Text Mining	
	Athens University of Economics and Business , Athens, Greece	
	B.Sc., Computer Science, May 2013	
HONORS AND AWARDS	Specialization: Data Mining & Web Crawling	
	École Polytechnique Jeune Post-doc Fellowship , March-May 2019	
	Awarded a 3-month post-doc research grant	
	École Polytechnique Ph.D. Fellowship , 2015	
	Awarded the Ph.D. research grant for 2015-2018	
PUBLICATIONS	1. On the Trade-off between Over-smoothing and Over-squashing in Deep Graph Neural Networks J. Giraldo, K. Skianis, A. Giannopoulos, T. Bouwmans, F. Malliaros CIKM 2023 (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, IC²S²

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

TECHNICAL SKILLS	Coding Systems Tools	Python, Java, C, C++ SQL, Matlab, D3js, L ^A T _E 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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