Konstantinos Skianis

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AREAS	Machine Learning, Deep Learning, Data Science, Natural Language Processing

PROFESSIONAL EXPERIENCE

Assistant Professor, *University of Ioannina* — **March, 2024 - present**
Department of Computer Science & Engineering

Founder, R&D, *PrimeHost* — **October, 2023 - present**
Automate guest conversations with AI

Founder, R&D, *BLUAI* — **June, 2020 - present**
AI, NLP, ML solutions and consulting

Researcher, *NKUA* — **January, 2022 - June 2023**
Department of Port Management and Shipping

Adjunct Professor (Academic Scholar), *AUEB* — **March, 2022 - September 2022**
Data Mining and Science undergraduate course

Senior Researcher, *CLMS* — **September, 2020 - March 2022**
EU programs R&D

Postdoctoral Researcher, *École Polytechnique* — **March, 2019 - June 2020**
Research, supervision

Research Engineer, *École Polytechnique & Airbus* — **July, 2013 - September, 2014**
Data Mining, Machine Learning, Data Visualization

EDUCATION

École Polytechnique, Palaiseau, France (DaSciM team)

Ph.D. Candidate, October 2015 - February 2019
- Topic: "Novel Representations, Regularization and Distances for Text Classification"
- Advisors: Prof. Michalis Vazirgiannis & Prof. Guillaume Wisniewski

École Normale Superieure 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
Specialization: Data Mining & Web Crawling

HONORS AND AWARDS

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

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. Vazirgianis
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^2S^2

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
6th place, National Bank of Greece Race **April 2019**
Training greek word embedding from legal texts.

2nd place, Fintech Crowdhackathon **April 2016**
Detecting fraud e-transactions based on deep learning.

2nd place, DREEM challenge (inclass Kaggle) **January 2015**
DREEM introduces a way to increase the duration and quality of deep sleep.

6th place, Data Mining Cup   **July 2013**
Berlin, Germany

Technical Skills	Coding	Python, Java, C, C++ SQL, Matlab, D3js, LaTeX
	Systems	Kubernetes, Elasticsearch
	Tools	Keras, Tensorflow, PyTorch, Spark, Hadoop

Additional Information	Languages	Greek - Native
		English - Fluent
		German - Good
		French - Good