

PERSONAL INFORMATION	Date of birth May 2, 1982 Place of birth Patras, Greece Address CMLA – ENS Cachan, Universite Paris-Saclay 61 Avenue du Président Wilson, 94235 Cachan cedex, France	Resources / Contact W. kalogeratos.com T. +33-147-4059-08 E. kalogeratos@cmla.ens-cachan.fr argyriskalogeratos@gmail.com
CURRENT POSITION	Post-doctoral researcher , member of the Machine Learning and Massive Data Analysis (MLMDA) group at Center of Applied Mathematics– ENS Cachan, University Paris Saclay, France . Principal investigator on the <i>Machine Learning on Networks</i> theme – Supvr: Nicolas Vayatis . [Sept. 2013 – now]	
RESEARCH INTERESTS	Machine Learning • Networks Analysis • Complex Systems	
SPECIAL AREAS OF INTEREST	<ul style="list-style-type: none"> ■ Learning methods for high-dimensional data ■ Data clustering and cluster analysis ■ Multimedia data semantics and representation (text, image, video) ■ Social Network Analysis and Mining – Diffusion Networks ■ Diffusion process analysis and control (epidemics, information propagation) 	
EDUCATION	Dept. Computer Science*, University of Ioannina, Greece * Currently renamed to <i>Computer Science and Engineering</i> <ul style="list-style-type: none"> ■ Ph.D. Computer Science [Nov. 2007 – Apr. 2013] Degree grade: Excellent, 10.0 / 10.0 Thesis: <i>Knowledge extraction methods for document collections</i> (Supvr. A. Likas) ■ M.Sc. Computer Science [Nov. 2005 – Oct. 2007] Degree grade: 9.36 / 10.0 – Thesis grade: 10.0 / 10.0 Thesis: <i>Methods for clustering documents</i> (Supvr. A. Likas) ■ B.Sc. Computer Science [Sep. 2001 – Oct. 2005] Degree Grade: 7.49 / 10.0 – Thesis grade: 10.0 / 10.0 Thesis: <i>Clustering web documents based on a graph model</i> (Supvr. A. Likas) 	
SCIENTIFIC BACKGROUND	<i>Post-graduate Courses</i> <ul style="list-style-type: none"> ■ <i>Machine Learning, Data Mining, Bioinformatics, Computer Vision, Optimization, Computer Systems (OS), Compilers, Information Systems – Middleware and Web Services, Computational Geometry</i>, most of which had also large reading and programming/development project assignments. 	
JOURNAL PUBLICATIONS	[1] K. Scaman, A. Kalogeratos , and N. Vayatis. Suppressing Epidemics in Networks using Priority-Planning, <i>IEEE Trans. on Network Science and Engineering</i> , vol. 3, no. 4, pp. 271–285, 2016. [2] A. Kalogeratos and A. Likas, Text document clustering using global term context vectors, <i>Knowledge and Information Systems</i> , vol. 31, no. 3, pp. 455–474, 2012. [3] A. Kalogeratos and A. Likas, Document clustering using synthetic cluster prototypes, <i>Data and Knowledge Engineering</i> , vol. 70, no. 3, pp. 284–306, 2011.	

CONFERENCE
PUBLICATIONS

- [4] R. Lemonnier, K. Scaman, and **A. Kalogeratos**. [Multivariate Hawkes Processes for Large-scale Inference](#), *Proc. AAAI Conf. on Artificial Intelligence*, 2017.
- [5] **A. Kalogeratos**, P. Zagorisios, and A. Likas. [Improving Text Stream Clustering using Term Burstiness and Co-burstiness](#), *Proc. SETN Hellenic Conf. on Artificial Intelligence*, 2016.
- [6] K. Scaman, **A. Kalogeratos**, N. Vayatis, [A Greedy Approach for Dynamic Control of Diffusion Processes in Networks](#), *Proc. IEEE Intern. Conf. on Tools with Artificial Intelligence*, pp. 652–659, 2015.
- [7] **A. Kalogeratos** and A. Likas, [Dip-means: an incremental clustering method for estimating the number of clusters](#), *Proc. NIPS Conf. on Neural Information Processing Systems*, 2012.
- [8] V. Chasanis, **A. Kalogeratos**, and A. Likas, [Movie segmentation into scenes and chapters using locally weighted bag of visual words](#), *Proc. ACM ICIV Intern. Conf. on Image and Video Retrieval*, pp. 8–10, 2009.
- [9] **A. Kalogeratos** and A. Likas, [A significance-based graph model for clustering web documents](#), *Proc. SETN Hellenic Conf. on Artificial Intelligence*, LNAI 3955, pp. 516–519, Springer-Verlag, 2006.

BOOK
CHAPTERS

- [10] **A. Kalogeratos** and K. Scaman, [Algorithmes efficaces pour contenir des processus de contagion sur des réseaux](#), *La mobilité à l'ère du Big Data* (to appear), A. de Palma and S. Dantan (Eds.), ECONOMICA, 2017.
- [11] **A. Kalogeratos**, V. Chasanis, G. Rakocevic, A. Likas, Z. Babovic, and M. Novakovic, [Mining Clinical Data](#), *Computational Medicine in Data Mining and Modeling*, in G. Rakocevic et al. (Eds.), pp. 1–34, 2013.

CONFERENCE
TALKS &
WORKSHOP
PAPERS
(NO PROC.)

- [12] **A. Kalogeratos**, S. Sarao, K. Scaman, and N. Vayatis, [Dynamic control of social diffusions using extensions of the SIS model](#), *full oral presentation at CCS Conf. on Complex Systems*, (talk on submitted abstract), 2016.
- [13] **A. Kalogeratos**, K. Scaman, and N. Vayatis, [Learning to Suppress SIS Epidemics in Networks](#), *NIPS 2015 Networks in the Social and Information Sciences*, 2015.
- [14] K. Scaman, **A. Kalogeratos**, N. Vayatis, [Dynamic Treatment Allocation for Epidemic Control in Arbitrary Networks](#), *ACM Websearch and Data Mining (WSDM) – Diffusion in Networks and Cascade Analytics Workshop (DiffNet)*, 2014.

INVITED TALKS

- [Epidemics, Competition and Resource Management](#), at a Working Group on ML and Big Data of the French Ministry of Social Affairs & Health. [25.1.2017]
- [Dynamic suppression of epidemics on networks](#), at the Complex Networks research group of LIP6, Paris 6 (Jussieu Campus). [13.6.2016]
- [Epidemics in the new socio-economic era: challenges and applications](#), at the Dept. of Computer Science and Engineering, University of Ioannina, Greece. [25.5.2016]
- [Suppressing epidemics on arbitrary networks using treatment resources of limited efficiency](#), at INRA Research Center, Jouy-en-Josas, Paris area. [4.3.2016]
- [Summit Talk – Efficient algorithms for the suppression of diffusion processes on networks with application in epidemiology and marketing](#), at the “Big data and public policies for the transportation” summit organized by the French Ministry of Ecology / Durable Development / Energy, ENS Cachan, and PSE of Paris. [15.10.2015]

THESES
SUPERVISION

- CMLA, ENS Cachan, University Paris Saclay, France** [2013 – now]
- Co-supervision with N. Vayatis of **1 Ph.D. thesis** (Kevin Scaman, *Analysis and control of diffusion processes in networks*, 2013 – 2016; Also jury member in Oct. 2016), **7 Master (M2) theses**, **3 License (L3) theses** of 6 students.

Dept. Computer Science, University of Ioannina, Greece

[2009 – 2012]

- Co-supervision with A. Likas: **1 M.Sc. thesis, 4 Undergraduate theses.**
- PROFESSIONAL RESEARCH EXPERIENCE
- *Modeling propagation phenomena in Railway Networks*. MORANE project is funded by the SNCF and is a collaboration between MLMDA group and SNCF Innovation and Research department. Role: Principal investigator. [Oct. 2016 – Oct. 2017]
 - *CITEPH project* was a collaboration between two labs of CMLA and Schlumberger and was for data mining on geological data. Role: Coordinator for the work at MLMDA. [Sep. 2016 – Apr. 2017]
 - *Machine Learning for Large Social Graphs* in the frame of the SODATECH project funded by the French Government within the program “*Investments for the Future – Big Data*”. Role: Principal investigator for the work at MLMDA. [Sep. 2013 – Oct. 2016]
 - *Signal processing and mining for water quality analysis*, in a consulting project to Suez Environment. Role: Researcher. [4 months during 2015]
 - *Data Mining and Decision Support Tasks related to the Cardiovascular Disease*, in the framework of the E.U. research program ARTreat (www.artreat.org) funded by FP7-224297 – Large-scale Integrating Project (IP). Role: Researcher-consultant. [10 months during 2010 – 2012]
 - *Cheminformatics project: Rapid automatic identification of natural products in crude extracts based on NMR data* (collaboration between Dept. Computer Science and Dept. of Chemistry, University of Ioannina. [2011 – 2014]
- TEACHING EXPERIENCE
- Laboratory Instructor of undergraduate courses at the Dept. of Computer Technology and Telecommunications, **TEI of Epirus, Greece**. 4 courses: *Data Mining* (2 sem.s), *Computational Intelligence* (2 sem.s), *Computer Programming I* (1 sem.), *Computer Programming II* (1 sem.). [2009 – 2010 & 2011 – 2012]
 - Teaching Assistant of undergraduate courses at the Dept. Computer Science, University of Ioannina, Greece. 4 courses: *Artificial Intelligence* (4 sem.s), *Computational Intelligence* (3 sem.s), *Basic Electronics* (1 sem.), *Computer Architecture* (1 sem.). [2009 – 2012]
- ACADEMIC SERVICE
- Ph.D. Jury Member*
- Thesis of Kevin Scaman, CMLA, ENS Cachan, Oct. 2016.
- Referee Service*
- Journals: Pattern Recognition, Journal of Machine Learning Research (JMLR), IEEE Transactions on Knowledge and Data Engineering (TKDE), Journal of Pattern Recognition Research (JPRR), Bioinformatics, EURASIP Journal on Advances in Signal Processing, Information Sciences, Scientific Research and Essays.
 - Conferences: International Conference on Machine Learning (ICML), International Conference on Artificial Neural Networks (ICANN), Hellenic Conference on Artificial Intelligence (SETN), International Symposium on Neural Networks (ISNN), International Workshop on Data Science for Social Media and Risk (SOMERIS – ICDM’16).
- TECHNICAL SKILLS
- Excellent model/algorithmic design and programming skills.
 - Software development (indicative): C, C++, Java, Matlab, PHP, SQL, MySQL, OpenGL.
- LANGUAGES
- Greek – native language
 - English – proficient level
 - French – elementary level

REFERENCES
AVAILABLE TO
CONTACT

Professor Nicolas Vayatis

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W: nvayatis.perso.math.cnrs.fr
- ★ *N. Vayatis is the director of CMLA and head of the MLMDA research group where I am as a post-doctoral researcher, since Sept. 2013.*

Professor Aristidis Likas

- Dept. of Computer Science and Engineering, University of Ioannina, P.O. 1186, GR-45110 Ioannina, Greece
- ◇ E: [arly @\[at\]. cs.uoi.gr](mailto:arly@[at].cs.uoi.gr) || T: +30-26510-08810 || W: cs.uoi.gr/~arly
- ★ *A. Likas was my supervisor during graduate and postgraduate studies. We continue our long collaboration on research projects related to my interests.*

Assistant Prof. Konstantinos Blekas

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- ★ *K. Blekas was member of my Ph.D. and M.Sc. Theses' committees. He was also instructor of graduate and postgraduate courses that followed.*

Associate Prof. Christoforos Nikou

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- ★ *C. Nikou was member of my M.Sc. Thesis committee. He was also instructor of graduate and postgraduate courses that I followed.*

Professor Isaac Lagaris

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- ★ *I. Lagaris was instructor of graduate and postgraduate courses that I followed.*