Ioannis Siglidis

CONTACT
INFORMATION

✉ ioannis.siglidis@enpc.fr

🏠 ysig.github.io

⌱ github.com/ysig

in LinkedIn

🎓 Google Scholar

EDUCATION

Ecole Des Ponts ParisTech, Paris   Oct. 2021 – May 2025
PhD in Computer Vision and Machine Learning
Thesis Title: *Image Data Mining via Synthesis*
Committee: Alexei A. Efros, Jean Ponce, Josef Sivic, Hadar Averbuch-Elor, Shiry Ginosar
Advisor: Mathieu Aubry

MVA, ENS Paris-Saclay, Paris   Sept. 2020 – Oct. 2021
Master's Degree in Mathematics, Computer Vision and Machine Learning
Scholarship from the French Institute of Athens
Grade: **Excellent** (18.4/20)
Internship: *Evaluation of Handwritten Text Recognition Systems*
Advisor: Mathieu Aubry
Examiner: Jean Ponce

ECE, NTUA, Athens   Jan. 2011 – Nov. 2018
Diploma in Electrical and Computer Engineering
Grade: **Excellent** (9.04/10)
Specialization in Software, Signal Processing, Automatic Control Systems and Mathematics.
Diploma Thesis: GraKeL: A Python Library for Graph Kernels
Supervisor: Giannis Vazirgiannis

RESEARCH
EXPERIENCE

BelongieLab, Pioneer Center for AI, Copenhagen   Jul. 2025 - Present
Postdoctoral Researcher   Advised by Serge Belongie.
Modeling Digital Narratives

BAIR, UC Berkeley   Summer 2023 and Aug. 2024
PhD Vising Student   Advised by Alexei A. Efros.
Data Mining with Generative Models

Antikythera, CSM, London   Jun. - Jul. 2024
Studio Researcher   Led by Benjamin Bratton.
Think tank on the future of Planetary Computation.

ENPC, Imagine, Paris   Apr. – Oct. 2021
Master's Researcher   Advised by Mathieu Aubry.
Understanding Biased Performance of Sequence Models
in Handwritten Text Recognition.

Applied Memetic, Brussels (remote)   Jan. 2020 – Jan. 2021
Lead Research Engineer and CTO   Led by Ilan Manouach

Automatic Generation of Comics with AI: NeuralYorker, Fastwalkers.

Sorbonne University, LIP6, Paris   Nov. 2018 – Oct. 2019
Research Engineer   Led by Robin Lamarche-Perrin
Stream-Graph library for modeling time-evolving graphs.

École Polytechnique, LIX, Paris   Nov. 2017 – Oct. 2018
Research Engineer   Led by Michalis Vazirgiannis
Research and Implementation of Graph Kernels as a Python library
Automatic Transaction Fraud Detection for the Tencent company.

Demokritos, IIT, Athens   Mar. – May 2017
Student Researcher   Advised by George Giannakopoulos
Machine Learning in Bioinformatics via n-gram Graphs.

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PUBLICATIONS

* EQUAL CONTRIBUTION

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Diffusion Models as Data Mining Tools   2024
European Conference on Computer Vision   **Spotlight**
Ioannis Siglidis, Aleksander Holynski, Alexei A. Efros, Mathieu Aubry, and Shiry Ginosar

The Learnable Typewriter: A Generative Approach to Text Analysis   2024
International Conference for Document Analysis and Recognition,   **Best Paper**
Ioannis Siglidis, Nicolas Gonthier, Julien Gaubil, Tom Monnier, and Mathieu Aubry

An Interpretable Deep Learning Approach for Morphological Script Type Analysis 2024
International Workshop for Computational Palaeography
Malamatenia Vlachou-Efstathiou, **Ioannis Siglidis**, Dominique Stutzmann, and Mathieu Aubry

OpenStreetView-5M: The Many Roads to Global Visual Geolocation   2024
Conference on Computer Vision and Pattern Recognition
Guillaume Astruc*, Nicolas Dufour*, **Ioannis Siglidis***, Constantin Aronssohn, Nacim Bouia,
Stephanie Fu, Romain Loiseau, Van Nguyen Nguyen, Charles Raude, Elliot Vincent,
Lintao XU, Hongyu Zhou, and Loic Landrieu

Graph Kernels: A Survey   2021
Journal of Artificial Intelligence Research
Giannis Nikolentzos, **Ioannis Siglidis**, and Michalis Vazirgiannis

GraKeL: A Graph Kernel Library in Python   2020
Journal of Machine Learning Research (Machine Learning Open Source Software)
Ioannis Siglidis, Giannis Nikolentzos, Stratis Limnios, Christos Giatsidis, Kostas Skianis, and
Michalis Vazirgiannis

TALKS

Computer Vision at the Mirror Stage: 2025
Questioning and Refining Visual Categorization
MPI, Tübingen.

For Lack of a Better Word: Mining Visual Variation Behind Labels   2025
AI Institute, Copenhagen.

	Diffusion Models as Data Mining Tools	2024
	Workshop for Visual Concepts, ECCV, Milan	**Spotlight**
	For Lack of a Better Word: Mining Visual Variation Behind Labels	2024
	BAIR, Berkeley	
	The Learnable Typewriter: Unsupervised Text Line Recognition	2022
	NYU (remote)	
	Applied Memetic: Comics Generated by Artificial Intelligence	2021
	PSL Université (remote)	
	The stream-graph library for the analysis of temporal social graphs	2019
	ISTMAR, Venice	
	GraKeL: A sci-kit-learn compatible extension for Graph Kernels	2018
	Centrale Supelec, Paris	
AWARDS AND HONORS	**Best Paper Award**	2024
	Award from the *IAPR* association for ICDAR.	
	PhD Fellowship	2022
	Ecole Des Ponts ParisTech	
	Master's Scholarship	2021
	French Institute of Athens	
TEACHING	**TRIVA: Introduction to Computer Vision**	2021-2023
	ENPC, Master's Level	Lab Assistant
	DEEPL: Introduction to Deep Learning	2022
	ENPC, Master's Level	Lab Assistant
	Workshop on Web Data Mining from Graphs	2018
	École Polytechnique EXED	Instructor
	Data Science Workshop	2018
	BNP DATACAMP, Professional Program	Instructor
CONTRIBUTIONS TO ARTISTIC AND LITERARY WORKS	**Antikythera Journal, Volume 2025**	2025
	MIT Press, Contribution of two essays.	
	The Neural Yorker	2020–2022
	Automatically Generated Cartoons in the style of the New Yorker.	Twitter (**2.3K** followers)
	Fastwalkers	2022
	The first comic, created with emergent AI (GAN+GPT).	
	Latent Reading @ Chimeras: Inventory of Synthetic Cognition	2021
	Contribution of a theoretical term for Artificial Intelligence.	
PRESS AND EXHIBITIONS	**Computer-Generated New Yorker Cartoons Are Delightfully Weird**	2021
	Interview in Hyperallergic magazine.	

It's not YOU, it's me   2021
Technical Advisor (as a follow-up to "It's not me").

IA Fictions   2021
Applied Memetic: Comics created with Artificial Intelligence.

It's not me   2021
First video face manipulation of a music video with GANs for a greek pop-star.

NeurIPS 2020 Creativity   2020
A Graphic Novel Generated by Artificial Intelligence.

SKILLS   **Languages:** Greek (native), English (fluent), French (proficient).
               Programming: Python, C, C++, Java, Haskell, Prolog, Matlab, Scala, PHP, HTML, JS.
               Libraries/Frameworks: PyTorch, scikit-learn, Spark, Hadoop, Huggingface, OpenCV, LLVM.