Souhaib Attaiki

Paris, France

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Education

LIX, École Polytechnique	Paris, France
PhD in Mathematics & Computer Science	Oct. 2020 - Oct. 2024
Supervisor: Prof. Maks Ovsjanikov.	
École Normale Supérieure	Paris, France
MSc in Mathematics and Machine Learning - Highest honors	2018 - 2019
Thesis title: "Applications of Graphical Models and Neural Networks to Retail Image Recognition and Segmentation	"
CentraleSupélec	Paris, France
- MSc in Computer Science - Highest honors	2015 - 2018
Thesis title: "AI applied to justice: prediction of judicial decisions of courts"	
Work Experience	
Adobe	London, England
Research Intern	June. 2023 - November. 2023
Worked on diffusion models for feed-forward text-to-3D shape generation	
DXOMark	Paris, France
Image Science Researcher	Jan. 2020 - April. 2020
Worked on the automation of image quality assessment processes using machine learning algorithms	
Trax Retail	Paris, France
COMPUTER VISION RESEARCHER	Apr 2019 - Dec 2019

Worked on multiple subjects such as occlusion detection, fine-grained classification and novelty and outlier detection

Publications _____

PEER REVIEWED

	Souhaib Attaiki*, Vincent Mallet*, Yangyang Miao*, Bruno Correia, and Maks Ovsjanikov. AtomSurf: Surface
[AMMCO25]	Representation for Learning on Protein Structures. In The Thirteenth International Conference on Learning
	Representations (ICLR), 2025
[AGCMO25]	Souhaib Attaiki, Paul Guerrero, Duygu Ceylan, Niloy Mitra, and Maks Ovsjanikov. GANFusion: Feed-Forward
	Text-to-3D with Diffusion in GAN Space. In 2025 Winter Conference on Applications of Computer Vision
[HAGO24]	Souhaib Attaiki*, Sara Hahner*, Jochen Garcke, and Maks Ovsjanikov. Unsupervised Representation
	Learning for Diverse Deformable Shape Collections. In 2024 International Conference on 3D Vision (3DV).
	IEEE, March 2024
[AO23b]	Souhaib Attaiki and Maks Ovsjanikov. Shape Non-rigid Kinematics: A Zero-Shot Method for Non-Rigid
	Shape Matching via Unsupervised Functional Map Regularized Reconstruction. In 2023 Conference on
	Neural Information Processing Systems (NeurIPS 23)
[AO23]	Souhaib Attaiki and Maks Ovsjanikov. Understanding and Improving Features Learned in Deep Functional
	Maps. In 2023 Computer Vision and Pattern Recognition Conference (CVPR 23) - Highlight (top 2.5%)
[ALO23]	Souhaib Attaiki, Lei Li and Maks Ovsjanikov. Generalizable Local Feature Pre-training for Deformable Shape
	Analysis. In 2023 Computer Vision and Pattern Recognition Conference (CVPR 23) - Highlight (top 2.5%)
[AO22]	Souhaib Attaiki and Maks Ovsjanikov. NCP: Neural Correspondence Prior for Effective Unsupervised Shape
	Matching. In 2022 Conference on Neural Information Processing Systems (NeurIPS 22)
[LAO22]	Lei Li, Souhaib Attaiki and Maks Ovsjanikov. SRFeat: Learning Locally Accurate and Globally Consistent
	Non-Rigid Shape Correspondence. In 2022 International Conference on 3D Vision (3DV). IEEE, September
	2022
[SACO22]	Nicholas Sharp, Souhaib Attaiki , Keenan Crane, and Maks Ovsjanikov. Diffusionnet: Discretization agnostic
	learning on surfaces. ACM Trans. Graph., 01(1), 2022
[APO21]	Souhaib Attaiki, Gautam Pai, and Maks Ovsjanikov. DPFM: Deep partial functional maps. In 2021
	International Conference on 3D Vision (3DV). IEEE, December 2021 - Best Paper Award