Thomas Besnier

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https://tbesnier.github.io/

Employment History

Nov 2022 – · · · ·	**Ph.D.** CRIStAL, University of Lille
Apr 2022 – Sep 2022	**Research internship** DIKU, University of Copenhagen
Feb 2020 – Jan 2021	**Data scientist intern** Electro-dépôt (retail company)

Education

2022 – · · · · **Ph.D., University of Lille**
Thesis title: *Geometric deep learning on manifold meshes*

2018 – 2022 **M.Sc. Computer Science Engineering** in Centrale Lille Institut.
Research internship title: *On stochastic shape analysis and applications to phylogenetics.*

M.Sc. Mathematics in University of Lille.
Thesis title: *On reparameterization invariance and applications to geometric neural networks.*

Research Publications

Journal Articles

1. T. Besnier, E. Pierson, S. Arguillère, and M. Daoudi, "Toward mesh-invariant 3d generative deep learning with geometric measures," *Computers & Graphics*, 2023, ISSN: 0097-8493. DOI: https://doi.org/10.1016/j.cag.2023.06.027.

Conference Proceedings

1. F. Nocentini, T. Besnier, C. Ferrari, S. Arguillere, S. Berretti, and M. Daoudi, "Scantalk: 3d talking heads from unregistered scans," in *Proceedings of the European Conference on Computer Vision (ECCV)*, 2024.
2. E. Baker, T. Besnier, and S. Sommer, "A function space perspective on stochastic shape evolution," in *Image Analysis*, R. Gade, M. Felsberg, and J.-K. Kämäräinen, Eds., Cham: Springer Nature Switzerland, 2023, pp. 278–292, ISBN: 978-3-031-31438-4.
3. E. Pierson, T. Besnier, M. Daoudi, and S. Arguillère, "Parameterization Robustness of 3D Auto-Encoders," in *Eurographics Workshop on 3D Object Retrieval*, S. Berretti, T. Thehoaris, M. Daoudi, C. Ferrari, and R. C. Veltkamp, Eds., The Eurographics Association, 2022, ISBN: 978-3-03868-174-8. DOI: 10.2312/3dor.20221180.

Skills

Languages	Strong reading, writing and speaking competencies for English and French (mother tongue).
Coding	Python, SQL, LaTeX, …
Databases	MySQL, PostgreSQL, SparkSQL
Web Dev	HTML, CSS, JavaScript
Misc.	Academic research, teaching, LaTeX typesetting and publishing.

Teaching

Time series analysis		12h
Web development		32h
Machine learning		10h
Introduction to deep learning		20h