






Guillaume Gisbert, Ph.D.




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Employment History

- Oct 2021 – 2024  **Ph.D. at LIRIS (INSA Lyon)** - Villeurbanne, France
Ph.D. in computer graphics :
Project: completion of partial 3D surfaces using both geometric and deep learning methods // Coding in C++ and Python
- Feb 2021 – July 2021  **Internship at LIRIS (INSA Lyon)** - Villeurbanne, France
Research assistant in computer graphics :
Project: geometry processing in texture space based on Deep Image Prior // Coding in C++ and Python
- August 2019 – June 2020  **Internship at VIDA (NYU)** - New York, USA
Research assistant in medical imaging :
Project: denoising scans acquired by optical tomography using deep learning methods // Coding in Python






Education

- 2020 – 2021  **M.Sc. Computer Science, Université Lyon 1.**
Master ID3D (Image Development and 3D Technology)
Rendering / Animation / Frequency and statistical models / Research in computer graphics
- 2017 – 2021  **Engineering School, CPE Lyon.**
General Computer Science fundamentals
Specialized in Image, Modeling and Computer Science
Rendering / GPU Programming / Deep learning / Compression / Medical Imaging / 3D Reconstruction
- 2015 – 2017  **Preparatory class, Institution des Chartreux** - Lyon.
Mathematics & Physics

Research Publications








-  **G. Gisbert**, R. Chaine, and D. Coeurjolly, “Neural inpainting of folded fabrics with interactive editing,” *Computers & Graphics*, vol. 122, p. 103 997, 2024, ISSN: 0097-8493.  DOI: <https://doi.org/10.1016/j.cag.2024.103997>.
-  **G. Gisbert**, R. Chaine, and D. Coeurjolly, “Inpainting Holes in Folded Fabric Meshes,” *Computers & Graphics*, vol. 114, pp. 201–209, May 2023, ISSN: 0097-8493 (**Best paper honorable mention**).  URL: <https://hal.science/hal-04159974>.
-  **G. Gisbert**, N. Dey, H. Ishikawa, J. Schuman, J. Fishbaugh, and G. Gerig, “Self-supervised denoising via diffeomorphic template estimation: Application to optical coherence tomography,” English (US), pp. 72–82, May 2020.  DOI: 10.1007/978-3-030-63419-3_8.

Skills



- Languages  French: Mother tongue
English: Strong reading, writing and speaking skills (C1)
- Coding  C++, C, Python, Matlab
- Deep Learning  PyTorch, PyTorch3D, TensorFlow
- GPU  CUDA, OpenGL
- Misc.  Git, CMake, Computer Graphics, Rendering, CGAL, LibIGL, Qt, OpenCV, Academic research, Teaching, \LaTeX

Miscellaneous Experience

Challenges

- 2022  **Google Hashcode**, Python
- 2021  **Google Hashcode**, Python
 **Game Jam**, Unity
- 2019  **Google Hashcode**, Python
 **French Robotic Cup**, C, OpenCV, Embedded systems
- 2018  **Game Jam**, Unity
 **French Robotic Cup**, C, Embedded systems

Certification

- 2022  **Fundamentals of Statistics**. Awarded by MITx.
-  **Probability - The Science of Uncertainty and Data**. Awarded by MITx.