

RAPHAEL SULZER



CONTACT

✉ raphaelsulzer@gmx.de
☎ +33 7 52 13 24 25
📍 Nice, France
🏠 raphaelsulzer.de

🌐 LinkedIn
🐙 GitHub
📄 Google Scholar
🔍 ResearchGate

SKILLS

Programming

Python
C++
CMake
LaTeX
C#
HTML/CSS
JavaScript



Languages

German
English
French
Dutch

Native
Fluent
Conversational
Beginner

Other

pytorch CGAL GitHub GIS
surface mesh photogrammetry
conda unix matplotlib
deep learning point cloud
computer vision Blender
geometry processing

EXPERIENCE

RESEARCH ENGINEER

📅 11/2023 - Present
📍 LUXCARTA, MOUANS-SARTOUX, FRANCE
Developing an algorithm for country-wide building model reconstruction from airborne LiDAR data.

POSTDOCTORAL RESEARCHER

📅 11/2022 - Present
📍 TITANE, INRIA, SOPHIA-ANTIPOLIS, FRANCE
Carrying out research in geometry processing, computer vision and deep learning.

PHD CANDIDATE

📅 12/2018 - 10/2022
📍 LASTIG, INSTITUT GÉOGRAPHIQUE NATIONAL, PARIS, FRANCE
📍 IMAGINE, ÉCOLE DES PONTS PARISTECH, MARNE-LA-VALLÉE, FRANCE
Carrying out research in geometry processing, computer vision and deep learning.

LECTURER

📅 12/2018 - 12/2019
📍 ÉCOLE NATIONALE DES SCIENCES GÉOGRAPHIQUES, PARIS, FRANCE
Designing and implementing e-learning courses in photogrammetry and GIS.

GIS DEVELOPER

📅 05/2018 - 07/2019
📍 GEO-COL GIS AND COLLABORATIVE PLANNING, AMSTERDAM, NETHERLANDS
Designing and implementing GIS applications.

GRADUATE STUDENT INTERN

📅 06/2017 - 02/2018
📍 ARUP, AMSTERDAM, NETHERLANDS
Working on master's thesis in GIS team.

EDUCATION

PHD, DOCTOR OF PHILOSOPHY

📅 12/2018 - 10/2022
📍 GUSTAVE EIFFEL UNIVERSITY, MARNE-LA-VALLÉE, FRANCE
PhD Thesis: Learning Surface Reconstruction from Point Clouds in the Wild ([link](#))

MASTER'S DEGREE, MSC GEOMATICS, CUM LAUDE

📅 08/2016 - 05/2018
📍 DELFT UNIVERSITY OF TECHNOLOGY, DELFT, NETHERLANDS
Master's Thesis: Shape Based Classification of Seismic Building Structural Types ([link](#))

ERASMUS EXCHANGE SEMESTER

📅 08/2015 - 06/2016
📍 DELFT UNIVERSITY OF TECHNOLOGY, DELFT, NETHERLANDS

MSC GEODESY AND GEOINFORMATICS

📅 05/2015 - 01/2016
📍 UNIVERSITY OF STUTTGART, STUTTGART, GERMANY

BACHELOR'S DEGREE, BSC GEODESY AND GEOINFORMATICS

📅 10/2011 - 05/2015
📍 UNIVERSITY OF STUTTGART, STUTTGART, GERMANY
Bachelor's Thesis: Photogrammetric Measurement of Snow Depth Using an UAV Platform ([link](#))

REFERENCES

Loïc LANDRIEU

📍 LASTIG, INSTITUT GÉOGRAPHIQUE NATIONAL

☎ +33 6 77 18 92 53

✉ loic.landrieu@ign.fr

Renaud MARLET

📍 IMAGINE, ÉCOLE DES PONTS PARISTECH

☎ +33 1 64 15 21 86

✉ renaud.marlet@enpc.fr

PUBLICATIONS

Evaluating Surface Mesh Reconstruction Using Real Data

👤 Y. Marchand, L. Caraffa, **R. Sulzer**, E. Clédat, B. Vallet

📅 2023 📖 Photogrammetric Engineering & Remote Sensing Journal, Volume 89, Number 10

🔗 [link](#)

A Survey and Benchmark of Automatic Surface Reconstruction from Point Clouds

👤 **R. Sulzer**, L. Landrieu, R. Marlet, B. Vallet

📅 2023 📖 arXiv

🔗 [arXiv](#)

Deep Surface Reconstruction from Point Clouds with Visibility Information

👤 **R. Sulzer**, L. Landrieu, A. Boulch, R. Marlet, B. Vallet

📅 2022 📖 26th International Conference on Pattern Recognition (ICPR), Montréal, Québec

🔗 [arXiv](#)

Scalable Surface Reconstruction with Delaunay-Graph Neural Networks

👤 **R. Sulzer**, L. Landrieu, R. Marlet, B. Vallet

📅 2021 📖 Computer Graphics Forum, Wiley, 2021, Eurographics Symposium on Geometry Processing 2021

🔗 [arXiv](#)

Shape Based Classification of Seismic Building Structural Types

👤 **R. Sulzer**, P. Nourian, M. Palmieri, J. van Gemert

📅 2018 📖 International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 2018

🔗 [link](#)

Track-id: Activity Determination based on Wi-Fi Monitoring

👤 van der Spek, S., Verbree, E., Quak, W., Groeneveld, I. J. D. G., **Sulzer, R.**, Theocharous, E., Xu, Y.

📅 2016 📖 Proceedings of the 13th International Conference on Location Based Services: LBS 2016

🔗 [link](#)