RAPHAEL SULZER



CONTACT

raphaelsulzer@gmx.de

raphaelsulzer.de

Nice, France

in LinkedIn

GitHub

Google Scholar

SKILLS

Programming

Python
C++
LaTeX
C#
HTML/CSS
JavaScript



GermanNativeEnglishFluentFrenchConversationalDutchBeginner

Other



\$ EXPERIENCE

RESEARCH ENGINEER

11/2023 - Present

Q LUXCARTA, MOUANS-SARTOUX, FRANCE

Developing an algorithm for country-wide 3D 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 RESEARCHER

12/2018 - 10/2022

■ LASTIG, INSTITUT GÉOGRAPHIQUE NATIONAL, PARIS, FRANCE

MAGINE, ÉCOLE DES PONTS PARISTECH, MARNE-LA-VALLEÉE, 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

i 05/2018 - 07/2019

 $\ensuremath{ f Q} \ensuremath{ \mbox{ GEO-COL GIS AND COLLABORATIVE PLANNING, AMSTERDAM, NETHERLANDS} \\$

Designing and implementing GIS applications for public and private customers.

GRADUATE STUDENT INTERN

i 06/2017 - 02/2018

ARUP, AMSTERDAM, NETHERLANDS

Developing an algorithm for building classification from remote sensing and cadastral data.

EDUCATION

PHD DEGREE, DEEP LEARNING AND GEOMETRY PROCESSING

i 12/2018 - 10/2022

♀ GUSTAVE EIFFEL UNIVERSITY, MARNE-LA-VALLEÉE, FRANCE

PhD Thesis: Learning Surface Reconstruction from Point Clouds in the Wild (link)

MASTER'S DEGREE, MSC GEOMATICS, CUM LAUDE

i 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

i 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

i 10/2011 - 05/2015

Q UNIVERSITY OF STUTTGART, STUTTGART, GERMANY

Bachelor's Thesis: Photogrammetric Measurement of Snow Depth Using an UAV Platform (link)

REFERENCES

Florent LAFARGE

■ florent.lafarge@inria.fr

TITANE, INRIA

= 2016

Postdoctoral advisor

Loïc LANDRIEU

■ loic.landrieu@enpc.fr

♀ IMAGINE, ÉCOLE DES PONTS PARISTECH

𝚱 link

Doctoral advisor

PUBLICATIONS

Concise Plane Arrangements for Low-Poly Surface and Volume Modelling	
R. Sulzer, F. Lafarge	
■ 2024 ■ European Conference on Computer Vision	ℱ arXiv
SimpliCity: Reconstructing Buildings with Simple Regularized 3D Models	
🖶 JP. Bauchet, R. Sulzer , F. Lafarge, Y. Tarabalka	
■ 2024 ■ CVPR Workshop on Urban Scene Modeling	∳ arXiv
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 1	10 S link
A Survey and Benchmark of Automatic Surface Reconstruction from Point Clouds	
R. Sulzer, L. Landrieu, R. Marlet, B. Vallet	
■ 2023 ■ arXiv preprint	∳ 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 9 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 Info	rmation Sciences, 2018
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.	

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