# RAPHAEL SULZER



## CONTACT

raphaelsulzer@gmx.de

Nice, France

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in LinkedIn

GitHub

Google Scholar

ResearchGate

## **SKILLS**

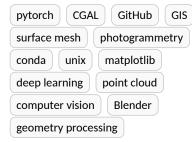
#### **Programming**

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

#### Languages

GermanNativeEnglishFluentFrenchConversationalDutchBeginner

#### Other



# **♥** EXPERIENCE

#### **RESEARCH ENGINEER**

## 11/2023 - Present

f V 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
- **♀** IMAGINE, 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**

**6** 05/2018 - 07/2019

**♀** GEO-COL GIS AND COLLABORATIVE PLANNING, AMSTERDAM, NETHERLANDS

Designing and implementing GIS applications.

## **GRADUATE STUDENT INTERN**

**6** 06/2017 - 02/2018

**♀** ARUP, AMSTERDAM, NETHERLANDS

Working on master's thesis in GIS team.

# **EDUCATION**

## PHD DEGREE, DEEP LEARNING AND GEOMETRY PROCESSING

**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

**6** 08/2016 - 05/2018

**Q** DELFT UNIVERSITY OF TECHNOLOGY, DELFT, NETHERLANDS

Master's Thesis: Shape Based Classification of Seismic Building Structural Types (link)

## **ERASMUS EXCHANGE SEMESTER**

**1** 08/2015 - 06/2016

 $oldsymbol{Q}$  Delft university of technology, delft, netherlands

## MSC GEODESY AND GEOINFORMATICS

**6** 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

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# Renaud MARLET

**♀** IMAGINE, ÉCOLE DES PONTS PARISTECH

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# **PUBLICATIONS**

Concise Plane Arrangements for Low-Poly Surface and Volume Modelling	
R. Sulzer, F. Lafarge	
🗎 2024 🚪 European Conference on Computer Vision	% arXiv
SimpliCity: Reconstructing Buildings with Simple Regularized 3D Models	
JP. Bauchet, <b>R. Sulzer</b> , F. Lafarge, Y. Tarabalka	
	<b>%</b> arXiv
Evaluating Surface Mesh Reconstruction Using Real Data	
Y. Marchand, L. Caraffa, <b>R. Sulzer</b> , 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	
	<b>%</b> arXiv
Deep Surface Reconstruction from Point Clouds with Visibility Information	
R. Sulzer, L. Landrieu, A. Boulch, R. Marlet, B. Vallet	
2022 <b>3</b> 26th International Conference on Pattern Recognition (ICPR), Montréal, Québec	<b>%</b> arXiv
Scalable Surface Reconstruction with Delaunay-Graph Neural Networks	
R. Sulzer, L. Landrieu, R. Marlet, B. Vallet	
2021	<b>%</b> arXiv
Shape Based Classification of Seismic Building Structural Types	
R. Sulzer, P. Nourian, M. Palmieri, J. van Gemert	
iii 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