

# FRANCESCO FRASSINELLI

Also known as "FraFra"



## Software Engineer & FLOSS lover

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## EXPERIENCE

### Environmental data coordinator & software engineer

**NINA - Norwegian institute for natural research**  
*Environmental data*

September 2018 – ongoing Trondheim, Trøndelag, Norway

- Coordinator of the data science group
- Developer of custom solutions for spatial analysis and processing
- Developer of CKAN/GeoNode-based catalogs
- Developer for the Viltkamera/Scandcam ML project
- Working with data scientists and setting up HPC/AI workloads

### Software consultant

**Frafra Francesco Frassinelli**  
*Org. no. 923 121 692*

August 2019 – ongoing Norway

- Consultant for GISDevio Srl
- Developer of CKAN/GeoNode-based catalogs for the National Research Council of Italy
- Developer of projects for OpenStreetMap/WikiMedia Italia

### Full stack developer

**Kjuicer Srl (former Consapevolezza Srl)**

March 2015 – June 2018 Milan, Lombardy, Italy  
October 2014 – December 2015

- Developer of the first version of the Kjuicer webapp
- Focused on back-end (Django + PostgreSQL + Linux)
- Co-founder of Kjuicer Srl

### Python specialist/control project engineer

**CERN - European Organization for Nuclear Research**  
*TE-CRG-CE - Cryogenics, controls & electrical support*

April 2016 – July 2016 Meyrin, Geneva, Switzerland  
March 2013 – August 2013

- Jenkins cluster setup for CI for LHC, ATLAS, CMS
- Development of new tools for validation, code analysis, project management and automation
- Worked with both Siemens and Schneider PLCs

## FAVORITE QUOTE

*"We choose to go to the Moon in this decade and do the other things, not because they are easy, but because they are hard." – John Fitzgerald Kennedy*

## SKILLS

**Languages**

Bash Java JavaScript  
Python Rust SQL

**Software & frameworks**

Django Docker Git SQLite  
Kubernetes Postgres React

**Geoinformatics**

CKAN GeoNode GRASS  
QGIS GeoPaparazzi Leaflet  
OpenStreetMap PostGIS

**Misc**

CNC Fedora Linux

## LANGUAGES

Italian ●●●●● C2  
English ●●●●● C1  
Norwegian ☼ ●●●●● B1  
French ●●●●● B1

## EDUCATION

Master of Science in  
Geoinformatics Engineering  
**Politecnico di Milano**

Bachelor of Science in  
Engineering of Computing Systems  
**Politecnico di Milano**

## PUBLICATIONS

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### Journal Articles

- Minghini, M. and F. Frassinelli (2019). "OpenStreetMap history for intrinsic quality assessment: Is OSM up-to-date?" In: *Open Geospatial Data, Software and Standards*. DOI: 10.1186/s40965-019-0067-x. URL: <https://opengeospatialdata.springeropen.com/articles/10.1186/s40965-019-0067-x>.
- Minghini, M., M. A. Brovelli, and F. Frassinelli (2018). "An open source approach for the intrinsic assessment of the temporal accuracy, up-to-dateness and lineage of OpenStreetMap". In: *ISPRS - International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences XLII-4/W8*, pp. 147-154. DOI: 10.5194/isprs-archives-XLII-4-W8-147-2018. URL: <https://www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XLII-4-W8/147/2018/>.
- Fluder, Czeslaw et al. (2015). "Improved software production for the LHC tunnel cryogenics control system". In: *Phys. Procedia 67*, pp. 1134-1140. DOI: 10.1016/j.phpro.2015.06.176.

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### Conference Proceedings

- Kilsedar, Candan Eylül, Daniele Oxoli, Francesco Frassinelli, et al. (2017). "Humanitarian Mapping within a Student Association: PoliMappers". In: pp. 130-136. URL: <http://geomorfolab.arch.unige.it/geomaticsworkbooks/GW13.pdf>.
- Kilsedar, Candan Eylül, Daniele Oxoli, Lorenza Sganzzetta, et al. (2017). "PoliMappers: activities and objectives". In: *FOSS4G-IT*. (Genoa, Italy). URL: [https://www.researchgate.net/publication/313651028\\_PoliMappers\\_activities\\_and\\_objectives](https://www.researchgate.net/publication/313651028_PoliMappers_activities_and_objectives).
- Fluder, Czeslaw et al. (2014). "Improved software production for the LHC tunnel cryogenics control system". In: *Proceedings of 25th International Cryogenic Engineering Conference*. (University of Twente). Enschede, NL.
- Tovar-Gonzalez, A et al. (2014). "Validation of the data consolidation in Layout database for the LHC tunnel cryogenics controls upgrade". In: (ICALEPCS 2013). San Francisco.


## CERTIFICATES

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 IELTS band 7 (CEF C1)  
[British Council](#)

## PATENTS

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 EP3365814B1/US11321416B2

## LICENSES

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 European driving licenses AM & B  
[Statens vegvesen](#)

## VOLUNTEERING

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 Mapper

[OpenStreetMap](#), [WikiMedia](#)

 2008 - ongoing  Italy

- Tools and apps for the OSM ecosystem
- State of the Map 2018 organizer, volunteer and speaker (scientific track)
- OpenStreetMap Coordinator for Lombardy region for 2018 H1
- PoliMappers' technical officer for 2 terms and vice-president for 1 term (up to 2018)
- OpenStreetMap active user since 2008

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 Free software activist

[Fedora Project](#), [online communities](#), [various GNU/Linux user groups](#)

 2003 - ongoing  Italy

- System administrator of FedoraOnline.it since September 2017
- Fedora Maintainer since January 2014
- Fedora Ambassador since May 2011
- Numerous events, talks, thousands of posts, emails and chat messages
- First Linux Day talk in 2004 about Python
- FSFE, ILS, GUGLI, Govonis, POuL, ViGLug, Slimp, BrigX, and others