

FRANCESCO FRASSINELLI

Also known as "FraFra"



Software Engineer & FLOSS lover

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EXPERIENCE

Environmental data manager

NINA - Norwegian institute for natural research
Miljødata

October 2024 – ongoing Trondheim, Trøndelag, Norway
September 2018 – September 2024

- Project management, close cooperation with IT Ops
- Data engineering, interoperability, sharing, and data processing
- Power users group coordinator
- Focus on open source, innovation, containers, GitOps, IaC

Software consultant

Frafra Francesco Frassinelli
Org. no. 923 121 692

August 2019 – ongoing Norway

- Software development, containerization, optimization and Ops
- Working with spatial data, OpenStreetMap and catalogs

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

JavaScript

Python

Rust

SQL

Software & frameworks

Django

DuckDB

Docker

Git

Kubernetes

Nix

Postgres

Geoinformatics

GRASS

QGIS

MapLibre

OpenStreetMap

PostGIS

Misc

CNC

Linux

S3

Parquet

LANGUAGES

Italian	●●●●●●●●	C2
English	●●●●●●●●	C1
Norwegian	●●●●●●●●	B1
French	●●●●●●●●	A2

EDUCATION

- Master of Science in
Geoinformatics Engineering
Politecnico di Milano
- Bachelor of Science in
Engineering of Computing Systems
Politecnico di Milano

PUBLICATIONS

Journal Articles

- Nater, Chloé R et al. (2024). "Large-scale spatio-temporal variation in vital rates and population dynamics of an alpine bird". In: *Peer Community Journal* 4.
- 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.

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.
- 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

 IELTS band 7 (CEF C1)

British Council

PATENTS

 EP3365814B1/US11321416B2

LICENSES

 European driving licenses AM & B

Statens vegvesen

VOLUNTEERING

 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

 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