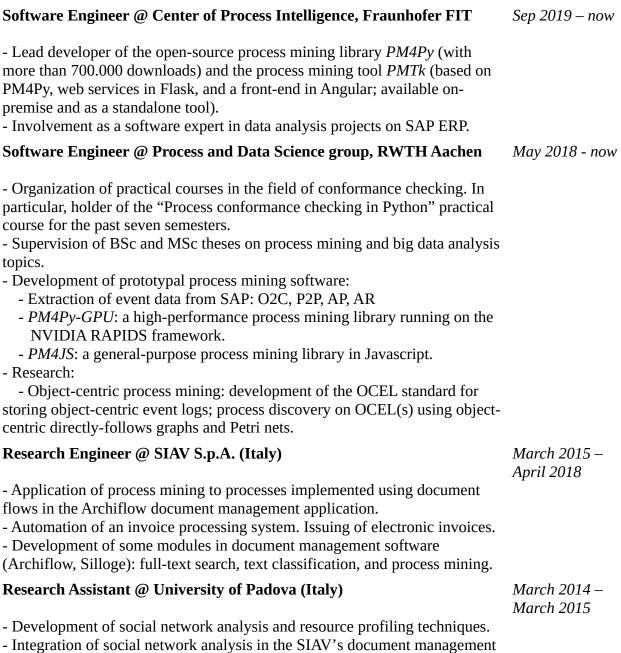
Curriculum Vitae of Alessandro Berti, born in Soave (VR), Italy, on 20/02/1989 Living in Aachen, Alt-Haarener Straße 21 (52080)

Phone: +49 160 92437294 *Email:* alessandro.berti89@gmail.com

Job experiences:



application. Main skills:

Programming: Python (lead developer of PM4Py and PM4Py-GPU; text classification) along with its ecosystem (Pandas, Scikit-Learn, Numpy); Javascript (lead developer of the process mining toolkit PMTk, and of the open-source library PM4JS) along with Node.JS and Angular.

Consultancy: involvement in process mining projects @ Fraunhofer FIT.

Data analysis: deep knowledge of process mining in different areas (process discovery, conformance checking, simulation). Usage of dataframe technologies (Pandas, Polars, NVIDIA RAPIDS, Apache Spark), SQL (Oracle, DuckDB, SQLite), and non-SQL (MongoDB, Redis) to extract and pre-process event data. Data extraction and processing from popular information systems (SAP ERP, Dynamics CRM, Camunda). Data visualization: Graphviz (PM4Py, PM4JS), Matplotlib (PM4Py), Plotly (PMTk, PM4JS).

Operational: deployment of applications as Docker containers (both in the context of SIAV Silloge and PMTk), and in enterprise web/application servers (Apache, IIS, NGINX / UWSGI). Basic knowledge of CI/CD pipelines (for the PM4Py and PMTK projects). Base knowledge of the Nameko framework.

Main publications:

- Berti, Alessandro, van Zelst, S.J., van der Aalst, W.M.P. (2019): Process Mining for Python (PM4Py): Bridging the Gap Between Process-and Data Science. In: Proceedings of the ICPM Demo Track 2019, co-located with 1st International Conference on Process Mining (ICPM 2019), Aachen, Germany, June 24-26, 2019. pp. 13-16 (2019).
- Berti, Alessandro, and Wil van der Aalst. **Extracting multiple viewpoint models from relational databases.** Data-Driven Process Discovery and Analysis. Springer, Cham, 2018. 24-51.
- Berti, Alessandro, and Wil MP van der Aalst. Reviving Token-based Replay: Increasing Speed While Improving Diagnostics. ATAED@ Petri Nets/ACSD. 2019.
- Berti, Alessandro, Sebastiaan J. van Zelst, and Wil MP van der Aalst. **PM4Py Web Services:** Easy Development, Integration and Deployment of Process Mining Features in any Application Stack. BPM (PhD/Demos). 2019.
- Berti, Alessandro, et al. An Event Data Extraction Approach from SAP ERP for Process Mining. International Conference on Process Mining. Springer, Cham, 2022.

Studies: Mathematics (Bsc 2008-2011, Msc 2011-2013) @ University of Padova.

Languages: English (C1), German (A1).