

Ilaria Battiston

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Education

- **Research Assistant, Database Architectures** **Amsterdam, The Netherlands**
Centrum Wiskunde & Informatica *July 2022 – present*
- **M.Sc. in Data Engineering and Analytics** **Munich, Germany**
Technical University of Munich *October 2019 – June 2022*
- **B.Sc. in Computer Science** **Milan, Italy**
Università degli Studi di Milano-Bicocca *September 2016 – July 2019*

Publications

- **DuckDB-SGX2: The Good, The Bad and The Ugly within Confidential Analytical Query Processing** **June 2024**
DaMoN '24: Proceedings of the 20th International Workshop on Data Management on New Hardware
- **OpenIVM: a SQL-to-SQL Compiler for Incremental Computations** **June 2024**
SIGMOD/PODS '24: Companion of the 2024 International Conference on Management of Data
- **Improving Data Minimization through Decentralized Data Architectures** **August 2023**
CEUR Workshop Proceedings (VLDB PhD Workshop)
- **A Data Analytics Framework: Medical Prescription Pattern Dynamics** **September 2019**
Association for Applied Statistics Journal

Internships

- **Software Engineer Intern, Dynamic Tables** **Berlin, Germany**
Snowflake *July 2024 – January 2025*
- **Business Intelligence Engineer Intern, Amazon Air** **Luxembourg, Luxembourg**
Amazon Europe *March 2021 – July 2021*
- **PostgreSQL Database Administrator** **Remote work**
GITC Pro *February 2020 – April 2020*
- **Healthcare Data Analyst** **Milan, Italy**
Consorzio Milano Ricerche *October 2018 – July 2019*

Community and teaching experience

- **Teaching Assistant, Large Scale Data Engineering** **Amsterdam, The Netherlands**
Vrije Universiteit Amsterdam *September 2022 – December 2022*
- **University Tutor for students with disabilities** **Remote work**
Università degli Studi di Milano-Bicocca *July 2020 – September 2020*
- **Community Manager** **Remote work**
WikiToLearn *February 2019 – September 2019*

Scholarships and student programs

- **Deutschlandstipendium**
Technical University of Munich **Munich, Germany**
September 2019 – September 2021
- **Student Developer**
Google Summer of Code 2020, the PostgreSQL project **Remote work**
May 2020 – September 2020
- **Student Developer**
Google Summer of Code 2019, the PostgreSQL project **Remote work**
May 2019 – September 2019

Extracurriculars and volunteering

- **Organization Admin / Mentor**
Google Summer of Code, the PostgreSQL project **Remote**
May 2021 – November 2023
- **Semester speaker - Data Engineering and Analytics**
Technical University of Munich **Munich, Germany**
May 2021 – June 2022
- **Board member (Treasurer)**
ITPug - Italian Postgres User Group **Remote**
September 2020 – August 2023
- **Event Organizer**
KDE Academy / PGConfEU / Linux Day Milan / Alice&Eve / DSDSD **Remote**
June 2019 – present
- **Conference Local Organization**
CIDR / VLDB / FOSDEM / DBDBD **Multiple locations**
June 2019 – present
- **Administrative Committee Member**
UnixMiB (Open Source students organization) **Milan, Italy**
April 2017 – present

Languages

- **Italian:** mother tongue
- **English:** C1 level (TOEFL, 2019)
- **French:** B1 level
- **German:** B2 level
- **Dutch:** A2 level

Programming skills

- Advanced SQL, query optimization, database administration basics (PostgreSQL)
- Design and implementation of data pipelines (ETL, Amazon Redshift)
- Database-oriented paradigms and infrastructures (AWS, SPARQL, Spark)
- Non-relational databases foundations (Neo4j, Redis, MongoDB)
- Unix-based systems knowledge (Red Hat certifications RH024, DO080, DO007)
- R for data analysis, tidying, visualization and machine learning
- Python for scripting, data analysis and API development (Django, Django-Rest)
- Web development (Javascript, Vue.js)
- Office and LibreOffice suite
- Version control systems (Git, SVN)
- C++/Java database and systems programming (in progress)
- Documentation with Latex, Beamer and Markdown

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