JENS D'HONDT

PhD Candidate – Big Data Systems and Engineering

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🌐 https://jdhondt.github.io ⌗ JdHondt ⓘ 0000-0001-9069-0591

A dedicated researcher with extensive experience in scalable data analytics and machine learning. Proven track record of designing and implementing efficient algorithms capable of handling terabytes of data. Published in top-tier conferences and journals, with expertise in similarity search. A confident presenter at conferences and teacher in classrooms.

EDUCATION

PhD. in Computer Science
Eindhoven University of Technology (TU/e)

📅 2021 – 2025 (Expected) 📍 Eindhoven, the Netherlands

Dissertation Title: "Extending Similarity Search...".
Advisor: Dr. Odysseas Papapetrou

Msc. in Data Science in Engineering
Eindhoven University of Technology (TU/e)

📅 2019 – 2021 📍 Eindhoven, the Netherlands

GPA: 9.1/10 **(Cum Laude)**, Thesis: 9.5/10

Bsc. in Industrial Engineering
Eindhoven University of Technology (TU/e)

📅 2016 – 2019 📍 Eindhoven, the Netherlands

GPA: 8.5/10 **(Cum Laude)**, Thesis: 9.5/10

PUBLICATIONS

- [1] **d'Hondt, J.E.** et al. (2025, under review) A Structured Study of Multivariate Time-Series Distance Measures. *SIGMOD, 2025*.
- [2] **d'Hondt, J.E.** et al. (2025, under review) MS-Index: Fast Subsequence Search for Multivariate Time Series under Euclidean Distance. *SIGMOD, 2025*.
- [3] Papapetrou, O. & **d'Hondt, J.E.** (2024) Multivariate Similarity Search - A Call for a New Breed of Similarity Search Algorithms. *ICDE, 2024*.
- [4] **d'Hondt, J.E.**, Papapetrou, O. (2024). Beyond the Dimensions: A Structured Evaluation of Multivariate Time Series Distance Measures. *MulTISA workshop, ICDE, 2024*.
- [5] **d'Hondt, J.E.**, Minartz, K., & Papapetrou, O. (2023). Efficient detection of multivariate correlations with different correlation measures. *VLDB Journal, 2023*.
- [6] Minartz, K., **d'Hondt, J.E.**, & Papapetrou, O. (2022). Multivariate correlation discovery in static and streaming data. *VLDB, 2022*.
- [7] **d'Hondt, J.E.**, Nuijten, R., & Van Gorp, P. (2019). Evaluation of computer-tailored motivational messaging in a health promotion context. *Lecture Notes in Artificial Intelligence 2019*.

ORGANIZATIONAL

- **Publication chair** to the workshop on Multivariate Time Series Analysis (MulTISA) at ICDE 2024 and 2025.
- **Lead researcher** of the Correlation Detective research project (link). Managing researchers, funds, and promotion material.
- **Master thesis supervisor** to 7 students at TU/e.
- **Teaching assistant** for the course 'Big Data Management' at TU/e.

EXTRA-CURRICULAR

- **Founder** - Dpasse Student Recruitment, Eindhoven, 2018-2020.
- **Summer School** - Harbin Institute of Technology, Shenzhen, 2019.
- **Participant** - Boston Consultancy Group 7-day Business course (Berlin, 2018).
- **Student Consultant** - Rabobank, as part of Netherlands-Asia Honours Summer School, 2019.
- **Acquisition leader** - University Racing Eindhoven (Formula-Student Team Eindhoven)

SKILLS

Python, Java, SQL, Bash
Airflow, Docker
R, Git, Angular

LANGUAGES

English, Dutch
French, German

REFEREES

Dr. Odysseas Papapetrou
@ Eindhoven University of Technology
✉ o.papapetrou@tue.nl

Prof. Dr. George Fletcher
@ Eindhoven University of Technology
✉ o.papapetrou@tue.nl

Dr. John Paparrizos
@ Ohio State University
✉ john@paparrizos.org

Dr. Jens Kohl
@ BMW Group
✉ jens.kohl@bmw.de

WORK EXPERIENCE

Data Engineering Intern - Full Time
BMW Group

📅 Jul. 20' – Dec. 20' (0.5 yr)   📍 Munich (GER)

- Lead migration of a legacy Data Warehouse from On-premise to **AWS** using **Spark** and **Bash scripting**.
- Designed data infrastructure to process ∼150 TB/day, improving part anomaly-detection. Used **AWS Glue**, **Lambda** and **DynamoDB**.
- Re-engineering the data-storage and retrieval strategy of dashboards to improve scalability to handle ∼1 TB of data.

Software Engineer - Freelance
Jens d'Hondt Data Solutions

📅 Dec. 19' – Nov. 21' (2 yr)   📍 Eindhoven (NL)

- Creation and implementation of data-driven applications, performing statistical analyses for clients leveraging open-source tools. Main technologies used: **Angular**, **Python**, **AWS**, **Spark**, **Kafka**.

Junior Data Scientist - Part Time
Crossyn Automotive

📅 Oct. 18' – Dec. 19' (1 yr)   📍 Tilburg (NL)

- Project leader on driving behavior and mileage prediction algorithms, member of data infra redesign team (setting up **Hadoop/Spark** clusters).

PROJECTS

Motivational Messaging Bot

- Designed and integrated end-to-end (IOS & Android) continuous-learning pipeline which automatically created personalized messages and learned from retention-rates. Published in 2019 [2].

Driving Behavior Grading System

- Built streaming service for real-time grading of people's driving behavior based on both structured and unstructured data (car acceleration/speed, surrounding traffic and weather information) using **Apache Kafka**, and **Python**.