

Curriculum Vitae

Personal Information

Name: Albrecht Zimmermann
Date of Birth: 24.03.1976
Citizenship: German

Contact Information

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Research Interests

- Local pattern mining
- Pattern set mining
- Outlier Detection
- Community and event detection
- Sports analytics
- Data generation
- Data mining result verification
- Run time prediction
- Attributed graph mining
- Chemoinformatics

Academic Degrees

May 2009 **Ph.D., “Mining Sets of Patterns’**
Albert-Ludwigs-Universität, Freiburg, Germany / Katholieke Universiteit Leuven, Belgium.
Supervisor: Prof. Dr. Luc De Raedt.
Jury Members: J. Berlamont
Prof. B. Berendt (KU Leuven)
Prof. B. Goethals (University of Antwerp)
Prof. A. Siebes (University of Utrecht)
Prof. H. Blockeel (KU Leuven)

June 2003 **M.Sc. (“Diplom”)**, Computer Science with minor Philosophy.
Albert-Ludwigs-Universität, Freiburg, Germany.
Grade 1.9 (grades range from 1.0 (best) to 4.0).
Diploma thesis on **“Clustering under Frequency Constraints’**.
Supervisor: Prof. Dr. Luc De Raedt.

July 1998

B.A. (“Vordiplom”), Computer Science with minor Philosophy.
Philipps Universität, Marburg, Germany.
Grade 2.0 (grades range from 1.0 (best) to 4.0).

Professional Experience (Post-PhD)

September 2015 – present – **Maître de conférences** (associate professor), *Université de Caen Normandie, France.*

- Independent research in the context of the research group Codag’s research objectives
- Research within the context and coordination of the ANR project “Interactive constraint elicitation for unsupervised and semi-supervised data mining” (InvolvD)
- Research within the context and coordination of the RIN/FEDER project “Supporting chemoinformatics via interactive unsupervised and semi-supervised data mining” (SCHISM)
- Research within the context of the “Assistance intelligente à la production de documents liés aux réunions” (REUS) project
- Research within the context and coordination of the CNRS Mastodons “Découverte et exploitation des connaissances pour l’aide à la décision en chimie thérapeutique” (DECADE) project

February 2014 – August 2015

Post-Doctoral Researcher, *INSA de Lyon, France.*

- Research within the context of the GRAISearch – EU Marie Curie Actions – FP7-PEOPLE-2013-IAPP project
 - Attributed graph mining
 - Community detection
 - Event detection

June 2009 – October 2013

Post-Doctoral Researcher, *Katholieke Universiteit Leuven, Belgium.*

- Research within the context of the DTAI (Declarative Languages & Artificial Intelligence) group’s projects
- Independent research within the context of the FWO (Fonds Wetenschappelijk Onderzoek Vlaanderen) project “Establishment of quantitative properties and qualitative guarantees for pattern mining”
- Teaching activities

Awards and Grants

2021–2025 ANR project “Interactive constraint elicitation for unsupervised and semi-supervised data mining” (InvolvD) (coordinator)

2021–2022 FEDER-funded RIN project “Supporting chemoinformatics via interactive unsupervised and semi-supervised data mining” (SCHISM) (coordinator)

2018–2019 CNRS project Mastodons “Quality in Consensualizing and Mining biological and chemical datasets” (QCM BioChem) (co-coordinator)

2017–2018	CNRS project Mastodons “Découverte et exploitation des connaissances pour l’aide à la décision en chimie thérapeutique” (DECADE) (coordinator)
2010–2013	FWO post-doctoral grant “Establishment of quantitative properties and qualitative guarantees for pattern mining”
2006	Best presentation award PKDD/ECML

Professional Activities

Journal Reviewer	Artificial Intelligence Big Data Data Mining and Knowledge Discovery (editorial board member) IEEE Transactions on Knowledge and Data Engineering Information Sciences Journal of Sports Analytics Journal for Quantitative Analysis in Sports Knowledge and Information Systems Machine Learning Journal (editorial board member)
Program Committees of Conferences	SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) AAAI Conference on Artificial Intelligence (AAAI) European Conference on Machine Learning/Principles and Practice of Knowledge Discovery in Databases (ECML PKDD) SIAM International Conference on Data Mining (SDM) International Conference on Data Mining (ICDM) ACM International Conference on Information and Knowledge Management (CIKM) International Joint Conferences on Artificial Intelligence (IJCAI) Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD) International Conference on Pattern Recognition Applications and Methods (ICPRAM) European Conference on Artificial Intelligence (ECAI) Symposium on Intelligent Data Analysis (IDA)
Organizational Activ- ities	Journal track co-chair ECML PKDD (2022) Publicity and public relations chair ECML PKDD (2019, 2020) Workshop and tutorial chair ECML PKDD (2016) Registration Chair ICDM (2012) Coordination Submission System ECAI (2012) Co-organization workshop “Evaluation and Experimental Design in Data Mining and Machine Learning” (EDML) @ SDM 2019, @ ECML PKDD 2020 Co-Organization workshop “Machine Learning and Data Mining for Sports Ana- lytics” (MLSA) @ ECML/PKDD (2013, 2015, 2017–2023) Co-Organization summer school “BigSportsData: Analysis of Big Sports Data” (2022) Co-Organization summer school “ComplexSportsData : Analysing complex sports data” (2023) Co-Organization Spring Workshop on Mining and Learning (2008, 2010, 2012)

- Teaching and Tutorials
- Tutorial “Mining Sets of Patterns” at ICDM 2011 (author and presenter)
 - Tutorial “Mining Sets of Patterns” at ECML/PKDD 2010 (author)
 - “Data Mining in Practice”, 3-day course for non-Machine Learning/Data Mining researchers, Leuven 2011, 2012
- IUT de Caen:
- “Advanced programming” 2023–present
 - “Optimization methods” 2022–present
 - “HCI programming” 2021–present
 - “Design patterns” 2021–present
 - “Object-oriented programming” 2017–present
 - “Advanced algorithms” 2015–present
 - “Algorithms and programming” 2015–present
- KU Leuven:
- “Databases”, 2012, 2013
 - “Data Mining”, 2011–2013
- University of Freiburg:
- “Foundations of Artificial Intelligence”, 2006
 - “Machine Learning and Data Mining”, 2005, 2006
- Supervision
- Doctoral theses
- “Interactive structured pattern mining”, Etienne Lehembre, 2021–present
 - “Cadre interactif de découverte de motifs avec prise en compte des préférences utilisateur”, Arnold Hien, 2018–2022
 - “Méthodes de fouille de données pour le traitement informatique des réseaux biologiques”, Maksim Koptelov, 2017–2020
- Master’s theses
- “Interactive structured pattern mining”, Etienne Lehembre, 2021
 - “Classification de principes actifs suivant leur réponse biologique et recherche d’invariants dans la structure chimique”, David Condaminet, 2018
 - “Identification and characterization of pan assay interference compounds”, Maksim Koptelov, 2017
 - “Starting in the Middle (or somewhere else) - Witness-based Mining”, Domien Frederix, 2012/13
 - “Towards Day-to-Day Basketball Predictions Using Machine Learning”, Sruthi Moorthy, 2012/13
 - “Applying Machine Learning to Sports Analytics”, Shi Zifan, 2011/12
 - “Predicting a Success in the NBA”, Ruben De Baetselier, 2010/11
- Bachelor’s theses
- “Exhaustive Multi-Label Learning”, Samuel Kolb, Thomas Pattyn, 2012/13
 - “Decision Trees and Ensemble Trees”, Tanja Sida, 2006/07

