

# Curriculum Vitae

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## Personal Information

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

## Contact Information

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Office Address      **Université de Caen Normandie**  
**Groupe de recherche en informatique, image, automatique et instrumentation de Caen (GREYC)**  
**Boulevard du Maréchal Juin**  
**F-14032 Caen Cedex 5, France**

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**Google Scholar:** <https://scholar.google.fr/citations?user=n3FVNxMAAAAJ&hl=en&oi=ao>  
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**ORCID:** 0000-0002-8319-7456

## Research Interests

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- 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

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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)

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- 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

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- 2025–2028     ANR project “Graph Neural Networks introspection via learning and exploiting rules” (PANDORA) (scientific coordinator GREYC)
- 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)

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| 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

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| Journal Reviewer                     | Artificial Intelligence<br>Big Data<br>Data Mining and Knowledge Discovery (editorial board member)<br>IEEE Transactions on Knowledge and Data Engineering<br>Information Sciences<br>International Journal for Computer Science in Sports<br>Journal for Quantitative Analysis in Sports<br>Journal of Sports Analytics<br>Knowledge and Information Systems<br>Machine Learning Journal (editorial board member)<br>Scientific Reports – Nature                                                                                                                                                                                                                                                                                                                                          |
| Program Committees<br>of Conferences | SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)<br>AAAI Conference on Artificial Intelligence (AAAI)<br>European Conference on Machine Learning/Principles and Practice of Knowledge<br>Discovery in Databases (ECML PKDD)<br>SIAM International Conference on Data Mining (SDM)<br>International Conference on Data Mining (ICDM)<br>ACM International Conference on Information and Knowledge Management<br>(CIKM)<br>International Joint Conferences on Artificial Intelligence (IJCAI)<br>Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)<br>International Conference on Pattern Recognition Applications and Methods<br>(ICPRAM)<br>European Conference on Artificial Intelligence (ECAI)<br>Symposium on Intelligent Data Analysis (IDA)       |
| Organizational Activ-<br>ities       | Journal track co-chair ECML PKDD (2022)<br>Publicity and public relations chair ECML PKDD (2019, 2020)<br>Workshop and tutorial chair ECML PKDD (2016)<br>Registration Chair ICDM (2012)<br>Coordination Submission System ECAI (2012)<br>Co-organization workshop “Evaluation and Experimental Design in Data Mining<br>and Machine Learning” (EDML) @ SDM 2019, @ ECML PKDD 2020<br>Co-Organization workshop “Machine Learning and Data Mining for Sports Ana-<br>lytics” (MLSA) @ ECML/PKDD (2013, 2015, 2017–2025)<br>Co-Organization summer school “BigSportsData: Analysis of Big Sports Data”<br>(2022)<br>Co-Organization summer school “ComplexSportsData : Analysing complex<br>sports data” (2023)<br>Co-Organization Spring Workshop on Mining and Learning (2008, 2010, 2012) |

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|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 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, 2021–2024                                                                              |
|                        | – “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                                                                                          |

