

# *Curriculum Vitae*

## Milen G. Kebede

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### **Education**

- 23/09/2019 - 2/4/2026 **PhD in Information studies**, Informatics Institute, University of Amsterdam, Complex Cyber Infrastructures(CCI) Group, Amsterdam, NL
- Developed duty-based, purpose-based access control framework using eFLINT to automate GDPR compliance in healthcare data sharing
  - Published papers in Legal Knowledge and information system, Future generation computer system
  - Supervised bachelor and master's thesis on policy modeling and compliance automation
- 2013 - 2018 **Double M.Sc. Degree** in Computer Science, University of Trento and Saarland University organized by EIT digital
- Completed course work in Security Engineering, Cryptography, Security Testing, Network Security, Browser Security, Multimedia Security, Wireless Network, Introduction to Service Design and Engineering, Privacy and Intellectual property rights, Economics and management, Business development. Management of ICT innovation
  - Wrote my master thesis on Regulatory compliance in healthcare - Managing Consent
- 2015 - 2016 **Student in Technologies for Active & Healthy Aging**, University of Trento. Trento, IT
- Designed a platform that can assist older adults to age in place
  - Completed coursework in Sociology and Anthropology of aging, Pervasive healthcare, Mobile computing, Participatory design, Service design and engineering, Ethnography
- 2004 - 2006 **B.Sc.** in Computer Science, *Jimma University, Ethiopia*
- Comprehensive curriculum covering programming fundamentals, data structures, algorithms, software engineering, system architecture, networks, discrete mathematics
  - Bachelor thesis project : Student registration platform

### **Publications**

- 2020 Kebede, M. G., Sileno, G., & Van Engers, T. . A critical reflection on ODRL. In *International Workshop on AI Approaches to the Complexity of Legal Systems* (pp. 48-61). Cham: Springer International Publishing [https://doi.org/10.1007/978-3-030-89811-3\\_4](https://doi.org/10.1007/978-3-030-89811-3_4)
- 2022 van Binsbergen, L. T., Kebede, M. G., Baugh, J., Van Engers, T., & van Vuurden, D. G. . Dynamic generation of access control policies from social policies. *Procedia Computer Science*, 198, 140-147.<https://doi.org/10.1016/j.procs.2021.12.221>

- 2023 Kebede, M. G., van Binsbergen, T., van Engers, T., & van Vuurden, D. G. Towards a Purpose-Based Access Control Model Derived from the Purpose Limitation Principle. In *Legal Knowledge and Information Systems* (pp. 143-148). IOS Press.  
<https://doi.org/10.3233/FAIA230958>
- 2024 Alsayed Kassem, J., Allaart, C., Amiri, S., Kebede, M., Müller, T., Turner, R., ... & Klous, S. (2024). Building a Digital Health Twin for Personalized Intervention: The EPI Project. In *Commit2Data* (pp. 2-1). Schloss Dagstuhl–Leibniz-Zentrum für Informatik.  
<https://doi.org/10.4230/OASIcs.Commit2Data.2>
- 2025 Kassem, J. A., Müller, T., Esterhuyse, C. A., Kebede, M. G., Osseyran, A., & Gross, P. . The EPI framework: A data privacy by design framework to support healthcare use cases. *Future Generation Computer Systems*, 165, 107550.  
<https://doi.org/10.1016/j.future.2024.107550>
- 2025 Van Binsbergen, L. T., Marten C. Steketee, Milen G Kebede, Heleen L. Janssen and Tom M. van Engers *Lawful and Accountable Personal Data Processing with GDPR-based Access and Usage Control in Distributed Systems* L. Thomas Van Binsbergen, Marten C. Steketee, Milen G Kebede, Heleen L. Janssen and Tom M. van Engers (Submitted to Artificial Intelligence and Law journal, under review)

## Experience

- 05/2024-Present **Senior Teaching Assistant in Information Studies Master's Program**, University of Amsterdam, NL
  - TA in the following courses: Policy Making & Rule Governance, Intelligent Systems, Information organisation, Modelling System Dynamics, Societal Complexity and Designing with data, Human-AI interaction
  - Master thesis supervision
- 02/2024-04/2024 **Security Analyst Intern**, Alfen Smart Energy Solutions. Almere, NL
  - Worked on Microsoft Defender, Sentinel and KQL to contribute to threat detection, analysis and incident response initiatives,
  - Utilized orchestration tools to facilitate incident response.
- 01/2019 - 07/2019 **Security Analyst**, XTN Cognitive Security. Rovereto, IT
  - Researched and analyzed malware behavior targeting financial institutions using reverse engineering tools
  - Contributed to the development of effective mitigation techniques
- 07/2016 - 11/2016 **Master thesis Internship**, CBA Group. Rovereto, IT
  - Investigated informed consent-related challenges in retirement homes
  - Proposed a consent-based risk-aware access control model as a solution
- 09/2007 - 08/2008 **Primary School Teacher**, Southwest Academy. Addis Ababa, ET
  - Self-Contained Classroom Teacher
  - Managed all core subjects (Math, English, Arts, Science, Social Studies)

## **Student Supervision**

**Van Beek, SF** - Representing access control systems Using semantic web  
**Ilias Daia** - Analysis privacy policy languages and compliance to GDPR  
**Abdul V. Zor** - A generic consent management platform using eFLINT  
**Christos Psaradellis** - An ontology based framework to support AI Act  
**Niels Musters** - Access control models in managing insider threat  
**Sobbia Mohammad** - Security by design in Software development  
**Viktoriya Li** - Analyzing user awareness in web tracking and cookies  
**Maceo Linger** - A business value perspective on digital twins

## **Skills**

Technical	<ul style="list-style-type: none"><li>• Policy Languages: eFLINT, ODRL, XACML</li><li>• Modeling: Access Control, Ontology Engineering, System Dynamics</li><li>• Programming: Python, LaTeX</li><li>• Security: Incident Response, Threat Analysis</li></ul>
Legal	GDPR and regulatory compliance(Advanced), Data sharing agreements(Advanced), The AI Act (beginner level)
Ethical research practices	Informed consent management, data subject rights, ethical review processes (healthcare research context)

## **Summer and Winter schools**

2022	International semantic web research summer school - Bertinoro - Intensive training in ontology engineering, linked data, and semantic web standards (RDFS, OWL, SPARQL)"
2021	Smart data sharing to move goods and people - International Data Spaces
2018	EIT Health Active Aging - Oxford Säid Business School Oxford

## **Languages**

Amharic & Tigrinya	Mother Tongue	
English	Full Professional Proficiency	C1
Italian & Dutch	Basic words and phrases	A1

## **Awards**

2013- 2015	EIT student scholarship recipient
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## **References**

[Prof. Tom van Engers](#) - PhD Promoter

[Dr. Frank Nack](#) - Chair of the Examination Board for the MSc Information Studies program