

RESEARCH INTERESTS	deontic logic, legal reasoning, answer set programming, first-order modal logic, judicial discretion, preference logic, description logic, artificial intelligence, paradoxes	
EDUCATION	Ph.D. in Logic and Computer Science	Austria, Vienna
	<i>Theory and Logic Group, Department of Computer Science</i>	2022 - 2026 (<i>expected</i>)
	<ul style="list-style-type: none">• Advisor: Prof. Agata Ciabattoni• Research area: Applications of Deontic Logic	
	Master in Logic	Gothenburg, Sweden
	<i>University of Gothenburg</i>	2020 - 2022
	<ul style="list-style-type: none">• Thesis: Proof Theory of Circular Description Logics• Advisor: Prof. Bahareh Afshari	
	Bachelor in Liberal Arts & Science	Amsterdam, the Netherlands
EMPLOYMENT	<i>Amsterdam University College</i>	2015 - 2018
	<ul style="list-style-type: none">• Track: Computer Science, and Mathematics• Thesis: Infinite Time Turing Machines and Ordinal Turing Machines – Comparison and Analysis	
	Exchange Semester	Hong Kong
	<i>Chinese University of Hong Kong</i>	Sep. 2017 - Jan. 2018
	University Assistant TU Wien Vienna	2022-Present
	Coach Bit Academy Amsterdam, the Netherlands	2020
AWARDS & GRANTS	<ul style="list-style-type: none">• Coaching students in programming, explaining concepts and motivating the students.	
	Trainer Lyceo Amsterdam, the Netherlands	2020
	<ul style="list-style-type: none">• Trainer for secondary school students, where I worked on a wide variety of projects including home work guidance, tutoring and training for exams.	
	Software Developer ING & Young Colfield Amsterdam, the Netherlands	2018-2019
	<ul style="list-style-type: none">• Part of the Kafka Eventbus team of ING. This team maintains the internal Kafka Cluster and develops new features. The first 12 months of this project were part of an IT traineeship at Young Colfield. After that, I worked for ING internally.	
SKILLS	Short list best paper award, PRIMA	2025
	Runner up best paper award, DEON	2023
	Best Posters Award, SPLoGiC	2023
	Conference Attendance Grant for female master's students, TU Wien Informatics	2025
ACADEMIC SERVICES	Languages: Dutch, English.	
	Programming: Python, Answer Set Programming, MATLAB, Java, JavaScript, HTML, CSS, Matlab, Pyret, C, Prolog	
	– <i>Certificates</i> Oracle Certified Associate Java SE 8 Programmer, Professional Scrum Master 1	
ACADEMIC SERVICES	Organizing WiL Seminar Series	
	Reviewers for AAAI 2025, DEON 2025, AAAI 2026	
	Student Representative LogiCS@TUWien programme	
	Organizing Committee DEON2025, MOSAIC2023	

SELECTED TALKS	DEON 2025, Vienna, Austria	2025
	Title: <i>New sources for deontics: The Mimamsa school of Sanskrit philosophy</i>	
	• Together with Elisa Freschi	
	ICAIL 2025, Chicago, USA	2025
	Title: <i>Judicial Discretion as Normative Reasoning: Deontic Characterization of Judicial Decision Making with Answer Set Programming.</i>	
	• Together with Réka Markovich	
	JURIX 2024, Brno, Czech	2025
	Title: <i>Modeling Judicial Discretion with Nuanced Permissions.</i>	
	• Together with Réka Markovich	
	DEON 2023, Trois-Rivieres, Canada	2025
	Title: <i>Disambiguating Permissions: A Contribution from Mimamsa.</i>	
PUBLICATIONS	<ol style="list-style-type: none"> 1. Agata Ciabattoni, Josephine Dik, Emiliano Lorini, Dominik Pichler, Dmitrii Rozplokhas. From Explicit Allowances to Defeasible Deontic Operators: A Modal View. In: <i>Proceedings of the 26th International Conference on Principles and Practice of Multi-Agent Systems (PRIMA 2025)</i>, December 2025. 2. Josephine Dik. Explaining Discretionary Judicial Decisions using Answer Set Programming. In: <i>Legal Knowledge and Information Systems (JURIX 2025)</i>, December 2025. 3. Josephine Dik, Réka Markovich. When Judges Go Wrong: Modeling Discretion and the Duty of Care (Extended Abstract). In: <i>Proceedings of the 17th International Conference on Deontic Logic and Normative Systems (DEON 2025)</i>, July 2025. 4. Josephine Dik, Dominik Pichler. Navigating Permission and Exceptions: A First-Order Perspective. In: <i>Proceedings of the 17th International Conference on Deontic Logic and Normative Systems (DEON 2025)</i>, July 2025. 5. Josephine Dik, Réka Markovich. Judicial Discretion as Normative Reasoning: Deontic Characterization of Judicial Decision Making with Answer Set Programming. In: <i>International Conference on AI and Law (ICAIL 2025)</i>, June 2025. 6. Agata Ciabattoni, Josephine Dik, Elisa Freschi. Mimamsa on 'better-not' permissions. In: <i>Journal of Philosophical Logic</i>, 2025. 7. Josephine Dik, Réka Markovich. Modeling Judicial Discretion with Nuanced Permissions. In: <i>Legal Knowledge and Information Systems (JURIX 2024)</i>, December 2024. 8. Agata Ciabattoni, Josephine Dik, Elisa Freschi. Disambiguating permission: A contribution from Mimamsa. In: <i>Proceedings of the 16th International Conference on Deontic Logic and Normative Systems (DEON 2023)</i>, July 2023. 	
STAYS ABROAD	Visiting Réka Markovich University of Luxembourg	June, October-November 2024
	Visiting Marcelo Coniglio Universidade Estadual de Campina	February 2023
SUMMER SCHOOLS	SPLogiC Campinas, Brazil	2023
	Proof Society Atumun School and Workshop. Utrecht, Netherlands	2022
	Logic for the AI Spring Como, Italy	2022
	Nordic Logic Summer School Bergen, Norway	2022
VOLUNTEERING	Event Coordinator Gota Studentkar	2022
	Teacher Dutch Language for Adults Het Claverhuis	2020
	Buddy Exchange Students Amsterdam University College	2018