






Florian Frank




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Employment History

- 2026 – now  **Research Associate** Project “Direga”, FAU Erlangen-Nürnberg
- 2022 – 2026  **Research Associate** RTG 2475 “Cybercrime and Forensic Computing”, FAU Erlangen-Nürnberg
- April/May 2024  **Guest Researcher** *Radboud Universiteit, Nijmegen, NL*. Guest of Dr. Jurriaan C. Rot, Assistant Professor at RU; Research in the area of Automata Learning for Nominal Automata with Name Binding (RNNA)




Education

- 2022 – 2026  **Ph.D., Fridrich-Alexander Universität Erlangen-Nürnberg** Computer Science.
Thesis title: *Advanced Models and Techniques for Data Languages*.
- 2020 – 2022  **M.Sc., Fridrich-Alexander Universität Erlangen-Nürnberg** in Computer Science.
Thesis title: *Coalgebraic Infinitary Trace Semantics of Nominal Büchi-Automata*.
- 2016 – 2020  **B.Sc., Fridrich-Alexander Universität Erlangen-Nürnberg** in Computer Science.
Thesis title: *Implementation and Analysis of an Algorithm for Computing Canonical Non-Deterministic Automata*.

Research Publications

- F. Frank**, S. Milius, J. Rot, and H. Urbat, “Learning automata with name allocation,” in *18th International Workshop on Coalgebraic Methods in Computer Science (CMCS 2026)*, H. Basold and C. Kupke, Eds., to appear, Springer, Cham, 2026.  DOI: 10.48550/arXiv.2502.11947.
- F. Frank**, D. Hausmann, S. Milius, H. Urbat, and L. Schröder, “Alternating nominal automata with name allocation,” in *Proceedings of the 40th Annual ACM/IEEE Symposium on Logic in Computer Science (LICS 2025)*, L. Birkedal and B. König, Eds., IEEE Computer Society, 2025.  DOI: 10.1109/LICS65433.2025.00012.
- F. Frank**, S. Milius, and H. Urbat, “Positive data languages,” in *48th International Symposium on Mathematical Foundations of Computer Science (MFCS 2023)*, J. Leroux, S. Lombardy, and D. Peleg, Eds., ser. Leibniz International Proceedings in Informatics (LIPIcs), Schloss Dagstuhl – Leibniz-Zentrum für Informatik, 2023, 48:1–48:15.  DOI: 10.4230/LIPIcs.MFCS.2023.48.
- F. Frank**, S. Milius, and H. Urbat, “Coalgebraic semantics for nominal automata,” in *16th International Workshop on Coalgebraic Methods in Computer Science (CMCS 2022)*, H. H. Hansen and F. Zanasi, Eds., ser. Lecture Notes in Computer Science, Springer, Cham, Jul. 2022, pp. 45–66, ISBN: 978-3-031-10736-8.  DOI: 10.1007/978-3-031-10736-8_3.

Skills

- Languages  Strong reading, writing and speaking competencies for English. (C1 CEFR)
- Coding  Java, Python, C, C++, C#, \LaTeX
- Web Dev  HTML, CSS, JavaScript, Apache Web Server, Tomcat Web Server.