

MUGDHA KHEDKAR

Secure Software Engineering, Heinz Nixdorf Institut, Universität Paderborn, Germany

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EDUCATION

Ph.D. in Computer Science

Universität Paderborn, Germany
Advisor: Prof. Dr. Eric Bodden

Expected 2026

M.Sc. in Computer Science

Chennai Mathematical Institute, India, CGPA: 8.25/10

August 2020

B.E. in Computer Engineering

Cummins College of Engineering, Pune (India), 73%

May 2017

RESEARCH INTERESTS

Static Program Analysis, Data Privacy and Protection, Empirical Software Engineering

PUBLICATIONS

Mugdha Khedkar, Michael Schlichtig, and Eric Bodden. *Source Code-Driven GDPR Documentation: Supporting RoPA with Assessor View*. IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER) 2026. (Just accepted)

Mugdha Khedkar, Ambuj Kumar Mondal, and Eric Bodden. *A Study of Privacy-Related Data Collected by Android Apps*. Automated Software Engineering Journal. (Just accepted)

Mugdha Khedkar, Ambuj Kumar Mondal, and Eric Bodden. *Do Android App Developers Accurately Report Collection of Privacy-Related Data?* In Proceedings of the 39th IEEE/ACM International Conference on Automated Software Engineering Workshops (ASEW'24).

Mugdha Khedkar, Michael Schlichtig, and Eric Bodden. *Advancing Android Privacy Assessments with Automation*. In Proceedings of the 39th IEEE/ACM International Conference on Automated Software Engineering Workshops (ASEW'24).

Mugdha Khedkar and Eric Bodden. *Toward an Android Static Analysis Approach for Data Protection*. In Proceedings of the IEEE/ACM 11th International Conference on Mobile Software Engineering and Systems (MOBILESoft'24).

Mugdha Khedkar. *Static Analysis for Android GDPR Compliance Assurance*. 2023 IEEE/ACM 45th International Conference on Software Engineering Companion Proceedings (ICSE-Companion).

INVITED TALKS AND WORKSHOPS (SELECTED)

- *From Pain Points to Automation: Support for Privacy Assessments*, European Privacy KnowledgeNet (IAPP), Munich. Oct 2025
- *Static Analysis for Android GDPR Compliance*, Cybersecurity Center, TU Wien. Oct 2025
- *Towards Static Analysis for Android GDPR Compliance*, College of Engineering, University of California Davis. Oct 2024

SERVICES

- Program Committee Member: STATIC 2026, ASE 2025 Tool Demo, ASE 2024 Tool Demo
- Artifact Evaluation Committee Member: USENIX 2026, PoPETS 2026
- Journal Reviewer: IEEE Transactions on Software Engineering, Journal of Software: Evolution and Process, Information and Software Technology
- Magazine Reviewer: IEEE Software
- Junior Program Committee Member: MSR 2023 Technical Track
- Mentor: Universität Paderborn perspektive M program (Nov 2021 - Apr 2022)

- Student Volunteer: ASE 2024, ASE 2021
- Participant: 4th Summer School on Security Testing & Verification 2025, Dagstuhl Research Methods Seminar 2023, ICSE 2022 Student Mentoring Workshop, SIGPLAN-M (2021 – 2022), PLDI 2021 Programming Languages Mentoring Workshop

MASTER THESIS SUPERVISION – Universität Paderborn

- Automated Privacy Assessment for Android Applications: A DPV Visualisation Approach 2025
- Explaining Privacy-Relevant Program Slices to App Developers 2025
- Automatically Generating Data Safety Section Labels for Android Apps 2025
- Improving User Experience of Program Slicing wrt Data Privacy 2023
- Labeling User-Input Privacy Data in Android Applications 2023
- Empirical Evaluation of Forward and Backward Taint Analysis 2023
- Qualitative Study of Data Flow Analysis Frameworks: IFDS, IDE and VASCO 2023

TA EXPERIENCE – Universität Paderborn

- Secure Software Engineering (Bachelor course) Summer 2025, Summer 2024
- Seminar Secure Systems Engineering (Master course) Winter 2023, Summer 2023
- Designing Code Analyses for Large-scale Software Systems I (Master course) Winter 2022, Winter 2021
- Designing Code Analyses for Large-scale Software Systems II (Master course) Summer 2022, Summer 2021

WORK EXPERIENCE

- Research Associate, Heinz Nixdorf Institut, Universität Paderborn (Feb 2021 – now)
PI: Prof. Dr. Eric Bodden
- Project Research Assistant, Centre for Formal Design and Verification of Software
Dept of Computer Science and Engineering, IIT Bombay (Jul 2017 – Jul 2018)
PI: Prof. Supratik Chakraborty

INTERNSHIPS

- Master's Thesis Internship, Heinz Nixdorf Institut, Universität Paderborn (Sept – Dec 2019)
Supervisor: Prof. Dr. Eric Bodden
Thesis Topic: *Call Graph Construction for Spring Framework* ↗
- Research Internship, Dept of Computer Science and Automation, IISc Bangalore (May – Jul 2019)
Supervisor: Prof. Deepak D'Souza
Project: Data Race Detection in Android.
- Bachelor's Thesis Internship, Dept of Computer Science and Engineering, IIT Bombay (Jul 2016 – Feb 2017)
Supervisor: Prof. Supratim Biswas
Thesis Topic: *Precision Evaluation of Pointer Analysis Variants* ↗

EXTRACURRICULAR ACTIVITIES

- Poet of more than 275 English poems some of which have been published on web. ↗
- Author of a blog where I share my travel experiences: ↗
- A member of the CMI Literature Club. (2018 – 2020)
- A member of the Editorial team of the Cummins College newsletter “The Wordsmith”. (2013 – 2016)