

# 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 August 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, Mohamed Soliman, and Eric Bodden. *Challenges in Android Data Disclosure: An Empirical Study*. In Proceedings of the IEEE/ACM 13th International Conference on Mobile Software Engineering and Systems (MOBILESoft'26). (*To appear*) 

**Khedkar, M.**, Kumar Mondal, A. & Bodden, E. *A study of privacy-related data collected by Android apps*. Autom Softw Eng 33, 45 (2026). 

**Mugdha Khedkar**, Michael Schlichtig, and Eric Bodden. *Source Code-Driven GDPR Documentation: Supporting RoPA with Assessor View*. In Proceedings of the IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER'26). (*To appear*) 

**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). 

## MANUSCRIPT UNDER SUBMISSION

**Khedkar, M.**, Schlichtig, M., Atakishiyev, N., & Bodden, E. *Between Law and Code: Challenges and Opportunities for Automating Privacy Assessments*. Minor revision requested at ASE Journal. 2026.

## 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)