

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, 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). 

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

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|---|------|
| • 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

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

WORK EXPERIENCE

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

INTERNSHIPS

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

EXTRACURRICULAR ACTIVITIES

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| • 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. | <i>(2018 – 2020)</i> |
| • A member of the Editorial team of the Cummins College newsletter “The Wordsmith”. | <i>(2013 – 2016)</i> |