

# Lidiany Cerqueira

📍 Brazil    ✉ lidiany@cs@gmail.com    ☎ 79-98830-5557    in lidiany@cs    🌐 lidiany@cs.site

## Profile

---

A Senior Software Engineer and Computer Science researcher with a PhD in Software Engineering and over 15 years of industry experience. Research focuses on human-centered and empirical software engineering, including empathy, collaboration, well-being, and software quality. Published in international venues such as ACM TOSEM and IEEE Software. Experienced lecturer in programming and interdisciplinary computing courses.

**Research interests:** *Empirical Research, Software Engineering, Human-centered Computing, and AI for Software Engineering.*

## Education

---

<b>PhD</b>	<b>Federal University of Bahia</b> , Computer Science	2020 – 2025
	<ul style="list-style-type: none"><li>• <b>Dissertation:</b> Empathy-Guided Software Development: A Conceptual Framework of Empathy in Software Engineering</li><li>• <b>Advisor:</b> Manoel Mendonça <b>Co-advisor:</b> José Amancio M. Santos</li></ul>	
<b>MS</b>	<b>Federal University of Sergipe</b> , Computer Science	2013 – 2015
<b>BS</b>	<b>State University of Feira de Santana</b> , Computer Engineering	2005 – 2011

## Research

---

<b>Lead Investigator</b>	August 2025 - Present
<ul style="list-style-type: none"><li>• I am leading a new international initiative exploring empathy across diverse cultural work settings (starting with Portugal and Botswana).</li><li>• Collaborating with industry partners to develop GenAI-driven solutions for assessing job satisfaction and work engagement.</li></ul>	
<b>Federal University of Bahia</b> , Research Assistant	Salvador, BA, BR Oct 2020 – July 2025
<ul style="list-style-type: none"><li>• Worked at Professor Manoel Mendonça's lab, as part of my PhD Research.</li><li>• Designed and conducted mixed-methods studies focusing on human aspects of Software Engineering (SE), including empathy, work engagement, developer productivity, and technical debt.</li><li>• Mentored Master's and undergraduate students throughout the research lifecycle, resulting in the successful co-authorship of papers in top-tier conferences.</li></ul>	
<b>Virginia Commonwealth University</b> , Visiting Researcher	Richmond, VA, USA Dec 2023 – May 2024
<ul style="list-style-type: none"><li>• Worked at Professor Rodrigo Spinola's lab. Supported by the Capes Print scholarship.</li><li>• Collaborated with faculty and graduate students, contributing to ongoing research.</li><li>• Engaged with a diverse academic community and strengthened international academic partnerships, advancing my skills in empirical software engineering.</li></ul>	

## Teaching Experience

---

<b>Federal University of Bahia</b> , Lecturer	Salvador, BA, BR Apr 2025 – May 2025
<ul style="list-style-type: none"><li>• Developed course materials and assessments</li><li>• Lectured in online classes of ~30 students</li><li>• Python computer programming and Computational thinking</li></ul>	

**Federal University of Bahia, Teaching Assistant**

- Assisted Prof. Manoel Mendonça in teaching functional paradigms. Functional Programming (MATA77-01)
- Supporting grading, preparing materials, and guiding students during practical activities

Salvador, BA, BR  
Mar 2021 – Dec 2021

**Federal University of Sergipe, Lecturer**

- Taught Applied Health Informatics
- Developed course materials and assessments
- Lectured classes of ~25 undergraduate students
- Mentored student projects

Lagarto, SE, BR  
Jan 2017 – Nov 2018

## Technical Experience

---

**Ministry of Education, Senior Software Engineer**

- Senior software engineer in the public-sector environment, contributing to the design, development, and maintenance of institutional software systems.
- Promoting industry best practices at a large public institution, with experience spanning system development, tech lead, process improvement, and collaboration with multidisciplinary stakeholders.

Lagarto, SE, BR  
2011 – Present

**Speed System, Software Developer**

- Development of web applications using JEE and Hibernate at a software startup.

Feira de Santana, BA, BR  
2008 - 2011

## Service

---

**2nd Intl. Workshop on Responsible Software Engineering. FSE'26.** PC Member

2026

**XXII SBSI – Brazilian Symposium on Information Systems.** PC Member

2026

**Journal of Systems & Software.** Reviewer

2025 - Present

**Information and Software Technology.** Reviewer

2025 - Present

**Science of Computer Programming.** Reviewer

2025 - Present

**JMIR mhealth and uhealth.** Reviewer

2025 - Present

**IEEE Software.** Reviewer

2024 - Present

**WEPGCOMP.** Organizing Committee. Computer Science Graduate Student Workshop

2021

## Fellowships and Grants

---

**Grant:** ACM SIGSOFT - Fourth LATAM School in Software Engineering

2024

**Fellowship:** Coordination for the Improvement of Higher Education Personnel – Institutional Program for Internationalization (CAPES PrInt). Visiting Scholar at VCU.

Dec 2023 – May 2024

**Grant:** ACM SIGSOFT - Second LATAM School in Software Engineering

2022

**Fellowship:** Undergraduate Researcher Scholarship - State University of Feira de Santana. Fapesb Scientific Initiation Program.

Jan 2007- Fev 2008

## Honors and Awards

---

**Distinguished Paper:** A Thematic Synthesis on Empathy in Software Engineering. XXXVII Brazilian Symposium on Software Engineering.

2023

**Honorable Mention:** Workshop of Scientific Undergraduate Research.

2010

## Outreach Projects

---

### **BRAVAS in Tech**, Board member and Community Manager

Oct 2025 - present

- Fostering a welcoming and empowering community for women in technology by organizing interactive sessions, connecting members, and promoting empathy, learning, and mutual support.

### **Educational Workshops**

2017 - present

- Designed and conducted educational workshops covering topics such as programming, data science, open science, cybersecurity, and tools for remote education.


### **Aging, Technology, and Health**

2017 - 2019

- Designed and coordinated a project to empower older adults through technology and health classes.
- Developed an Android app to assist older adults in learning mobile technology for communication, entertainment, and improving their health habits.

### **Applied Informatics**

2017 - 2019

- Coordinated a team of health undergraduate students to develop a mobile app for learning human anatomy. Project funded by PROEX/PIAEX/UFS, Grant 23/2018.
- [labmorfoquiz.github.io/](https://labmorfoquiz.github.io/) 

## Languages

---

**Portuguese:** Native speaker

**English:** Fluent

**Spanish:** Basic reading, speaking, and comprehension

**Italian:** Basic reading, speaking, and comprehension

## Technologies

---

**Programming Languages:** Java, Python, C, C#, PHP, JavaScript

**Databases:** SQL, PostgreSQL, MySQL

**Software Development:** Git, GitHub, EclipseIDE, VSCode, .NET, RStudio, WordPress, MediaWiki, Markdown

**Research & Analysis:** R, Python, AI Tools (ChatGPT, Claude, Gemini, DeepSeek, Elicit), Latex, MaxQDA, NVivo, Zotero

**Open Science & Research Infrastructure:** Zenodo, Figshare, OSF, arXiv

**Communication & Design Tools:** Canva, Figma, draw.io

## Selected Publications

---

*My name is highlighted as Lidiany Cerqueira (shortened) or Lidiany Cerqueira Santos (full name) in older papers.*

### Journal articles

- [Exploring Empathy in Software Engineering: Insights from a Grey Literature Analysis of Practitioners' Perspectives.](#) [🔗 ACM Transactions on Software Engineering and Methodology.](#) 2025  
**Cerqueira, L.**, Bastos, J. P., Neves, D., Carneiro, G., Spinola, R., ... & Mendonça, M.
- [Assessing Software Practitioners' Work Engagement and Job Satisfaction in a Large Software Company - What We Have Learned?](#) [🔗 Springer Nature Computer Science.](#) 2025  
**Cerqueira, L.**, Nunes, L., Malheiros, V., Guerra, R. ... Spínola, R., Santos, J., Mendonça, M.
- [Empathy and its Effects on Software Practitioners' Well-being and Mental Health](#) [🔗 IEEE Software.](#) 2024  
**Cerqueira, L.**, ... & Spínola, R., Mendonça, M., Santos, J.

### Conference articles

- [Investigating the relationship between churning and code smells.](#) [🔗 51st Euromicro Conference on Software Engineering and Advanced Applications \(SEAA'25\)](#) 2025  
Gomes, K. C., ... **Cerqueira, L.** Spínola, R., Mendonça, M., & Amancio, J
- [Does context matter? An exploratory study on god class distribution based on contextual attributes.](#) [🔗 51st Euromicro Conference on Software Engineering and Advanced Applications \(SEAA'25\)](#) 2025  
Cerqueira, E. R., Moraes, G., **Cerqueira, L.** ... Spínola, R., Mendonça, M., & Amancio, J.
- ["Frustrating, Stressful, and Overwhelming": Insights into Software Practitioners' Productivity from Stack Exchange Discussions.](#) [🔗 39th Brazilian Symposium on Software Engineering \(SBES'25\)](#) 2025  
Silva, J; **Cerqueira, L.** ... Mendonça, M. & Santos, J. A. M.
- [Technical Debt Management in Agile Software Development: A Systematic Mapping Study.](#) [🔗 XXIII Brazilian Symposium on Software Quality \(SBQS'24\)](#) 2024  
Leite, G. D. S., Vieira, R. E. P., **Cerqueira, L.** ... & Mendonça, M.
- [Software Engineers Engagement and Job Satisfaction: A Survey with Practitioners Working Remotely in a Public Organization.](#) [🔗 27th International Conference on Enterprise Information Systems \(ICEIS'24\)](#) 2024  
**Cerqueira, L.**, ... Spínola, R., Mendonça, M. & Santos, J.
-  [A Thematic Synthesis on Empathy in Software Engineering.](#) [🔗 XXXVII Brazilian Symposium on Software Engineering \(SBES'23\)](#) 2023  
**Cerqueira, L.**, ... Spínola, R., Mendonça, M. & Santos, J.
- [The who, what and how of the current research at the Brazilian Symposium on Software Engineering.](#) [🔗 XXXVI Brazilian Symposium on Software Engineering \(SBES'22\)](#) 2022  
**Cerqueira, L.**, Silva, J. C. A. Vasconcelos, I. Mendonça, M. & Santos, J.
- [An assessment of Project-Based Learning towards Applied Health Informatics Teaching in an Undergraduate Class.](#) [🔗 XXXI Brazilian Symposium on Informatics in Education \(SBIE'20\)](#) 2020  
**Santos, L.C.**, Neves, D., Menezes, F.