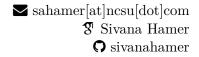
Sivana Hamer

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Computer Science Ph.D. Student at North Carolina State University interested in empirical software engineering research to help software development and developers.

EDUCATION

PhD. Student Computer Science	2023-pres.
Advisor: Dr. Laurie Williams	
Universidad de Costa Rica	Costa Rica
M.Sc. Computer Science and Informatics	2023
Thesis: Mining software repositories to automatically measure developer code contributions.	
Advisor: Dr. Christian Quesada-López	
Grade: 9.94/10.	
B.S. Computer Science and Informatics	2020
Grade: 9.72/10. Graduation with honors.	
EXPERIENCE	
Universidad de Costa Rica San José,	Costa Rica
,	2020 - 2023
Imparted courses: Software Design (CI-0136), Databases (CI-0127), Software Engineering and	d Database
Integrator Project (CI-0128), Programming 1 (CI-0112), and Computer principles (CI-0202).	
Carnegie Mellon University	sited States
Carnegie Menon University remisyrvama, United States	
Research internship as student visitor - Software and Societal Systems Department $$ jan - mar 2022	
With: Dr. Bogdan Vasilescu	
Universidad de Costa Rica	Costa Rica
	2019 - 2023
Comunicación	2010 2020
Research projects: "Automated procedure for measuring contributions from repositories of se	oftwere de
velopment projects". (Project No. 834-C1-011). Research instructor. "Empirical evaluation of	
veropment projects. (Froject No. 854-C1-011). Research instructor. Empirical evaluation of	a method-

ology for the automation of the measurement of software functional size". (Project No. 834-B8-A27).

Research instructor, graduate research assistant and undergraduate research assistant.

Informática

Courses: Integrating project of software engineering and databases (CI-0128), Software engineering (CI-0126), and Probability and statistics (CI-0115).

RESEARCH INTERESTS

Data mining, big data, program analysis, software engineering, empirical methods, mining software repositories, software measurement, value-based software engineering, and software security.

PUBLICATIONS

- [P8] **Hamer, Sivana**, Christian Quesada-López, and Marcelo Jenkins. How have we researched developers' contributions in software engineering? a systematic mapping study. In *submission*
- [P7] Erik Kuhlmann, Hamer, Sivana, and Christian Quesada-López. Visualización de software como ciudad: Un análisis de percepciones y experiencias de estudiantes. In Latin American Computing Conference (CLEI). IEEE, 2023
- [P6] Hamer, Sivana, Christian Quesada-López, and Marcelo Jenkins. Students' perceptions of integrating a contribution measurement tool in software engineering projects. In IEEE International Conference on Software Engineering Education and Training, 2023
- [P5] Hamer, Sivana, Christian Quesada-López, and Marcelo Jenkins. Automatically recovering students' missing trace links between commits and user stories. In Conferencia Iberoamericana de Software Engineering (CIbSE), 2021
- [P4] Hamer, Sivana, Christian Quesada-López, and Marcelo Jenkins. Students projects' source code changes impact on software quality through static analysis. In Quality of Information and Communications Technology, pages 553–564. Springer International Publishing, 2021
- [P3] Hamer, Sivana, Christian Quesada-López, Alexandra Martinez, and Marcelo Jenkins. Using git metrics to measure students' and teams' code contributions in software development projects. CLEI Electronic Journal, 2021
- [P2] Hamer, Sivana, Christian Quesada-López, Alexandra Martínez, and Marcelo Jenkins. Measuring Students' Source Code Quality in Software Development Projects Through Commit-Impact Analysis. In *International Conference on Information Technology & Systems*, pages 100–109. Springer International Publishing, 2021
- [P1] Hamer, Sivana, Christian Quesada-López, Alexandra Martínez, and Marcelo Jenkins. Measuring students' contributions in software development projects using Git metrics. In 2020 XLVI Latin American Computing Conference (CLEI). IEEE, 2020

LANGUAGES

• Native or bilingual: English and spanish.

TECHNOLOGIES

- Programming languages and other technologies: Python, Java, R, LATEX, C#, C++, C, HTML, CSS, UML, JavaScript, Bash, Microsoft SQL Server, MySQL, and Neo4j.
- Frameworks and libraries: ASP.NET, Flask, NUnit, JUnit, Selenium, Bootstrap, jQuery, React, and Unity.
- Software tools: Git, Bamboo, Jenkins, JIRA, Microsoft Visual Studio, and Visual Studio Code.