

Mairieli S. Wessel

PH.D. CANDIDATE · COMPUTER SCIENCE

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Short Bio

I am a PhD candidate at the Institute of Mathematics and Statistics (IME) from the University of São Paulo (USP), under the supervision of Professor Dr. Marco Aurelio Gerosa. Currently, I am visiting Concordia University's DAS Lab under Professor Dr. Emad Shihab's supervision. I got my bachelor's degree in Computer Science at the University of Technology - Paraná (UTFPR). I research the intersections of Software Engineering (SE) and Computer Supported Cooperative Work (CSCW). Currently, I am working on the use of bots to support Open Source Software (OSS) communities. I am interested in Open Source Software, Human Aspects of Software Engineering, Empirical Software Engineering, and Mining Software Repositories techniques. I have experience on both quantitative and qualitative research, applying the methods and approaches that are most suitable for the problem and research.

Education

Institute of Mathematics and Statistics (IME) at University of Sao Paulo (USP)

Brazil

PH.D. IN COMPUTER SCIENCE

Feb. 2018 - Present

- Thesis topic: *Enhancing Developers' Interactions in Online Programming Communities with Software Bots*
- Advisor: Dr. Marco A. Gerosa
- Co-advisor: Dr. Igor Steinmacher

Federal University of Technology - Paraná (UTFPR)

Brazil

BACHELOR IN COMPUTER SCIENCE

Feb. 2014 - Dec. 2017

- Monograph topic: *Tweaking Association Rules to Optimize Software Change Recommendations*. (In Portuguese)
- Advisor: Dr. Igor Scaliante Wiese

Professional Experience

RESEARCH

Concordia University

Montreal, Canada

VISITING SCHOLAR

Feb 2021 - Jul 2021

- Visiting scholar at Concordia University's DAS Lab under Professor Dr. Emad Shihab's supervision.

IBM Research

São Paulo, Brazil

RESEARCH INTERN

Apr 2019 - Feb 2020

- Graduate research intern at the Conversational Intelligence group at IBM Research laboratory in Brazil.

DEVELOPMENT

Mactus

Campo Mourão, Paraná, Brazil

FULLSTACK DEVELOPER

Jan 2012 - Dec 2017

- Web stack and native application stack developer.

4Makers

Campo Mourão, Paraná, Brazil

INSTRUCTOR

Jan 2017 - Dec 2017

- Robotics STEM Instructor for primary students.

Awards & Funding

2021	Service Recognition Award , International Conference on Program Comprehension (ICPC)	Virtual Canada
2021	Scholarship , Emerging Leaders in the Americas Program (ELAP)	Canada
2020	Distinguished Paper Award , ICSME 2020 IEEE TCSE Distinguished Paper Award	
2019	Invited Participant , Dagstuhl Seminar – BOTse: Bots in Software Engineering	Germany
2019	Invited Participant , ICSE 2019 Student Mentoring Workshop (SMeW)	Canada
2019	Recipient , SIGSOFT Travel Grants ICSE 2019 SMEW	Canada
2019	Invited Participant , First International Summer School in Research Methods for HCI/CSCW	Brazil
2018	Fellow , National Council for Scientific and Technological Development (CNPq)	Brazil
2017	Best Class Performance Award in the Undergraduate Degree in Computer Science , Federal University of Technology - Paraná	Brazil

Service

- 2022 **PC Member of ICSE Artifact Evaluation** Artifact Evaluation Track Program Committee
- 2021 **Journal Guest Editor** Special Issue on Bots in Software Engineering – IEEE Software Magazine
- 2021 **Video Co-Chair** International Conference on Program Comprehension
- 2021 **Reviewer of CSCW** ACM Conference on Supported Cooperative Work and Social Computing
- 2021 **Shadow PC Member of MSR** Mining Software Repositories Conference
- 2021 **Co-organizer of BotSE** International Workshop on Bots in Software Engineering
- 2020 **Reviewer of JSS** Journal of Systems & Software
- 2020 **PC Member of BotSE** International Workshop on Bots in Software Engineering Program Committee
- 2020 **Student Volunteer of ICGSE** IEEE/ACM International Conference on Global Software Engineering
- 2020 **Reviewer of WASHES** Workshop sobre Aspectos Sociais, Humanos e Econômicos de Software
- 2020 **Reviewer of the ACM CHI Late-Breaking Works** ACM Conference on Human Factors in Computing Systems
- 2019 **Reviewer of BotSE** International Workshop on Bots in Software Engineering

Publications

JOURNAL PAPERS

Quality Gatekeepers: Investigating the Effects of Code Review Bots on Pull Request Activities

EMSE 2021

WESSEL, M., SEREBRENIK, A., WIESE, I., STEINMACHER, I., GEROSA, M.

- [Submitted to] Special Issue of ICSME 2020 of the Empirical Software Engineering (EMSE)

PEER REVIEWED CONFERENCE PAPERS

Don't Disturb Me: Challenges of Interacting with Software Bots on Open Source Software Projects

CSCW 2021

WESSEL, M., WIESE, I., STEINMACHER, I., GEROSA, M.

- ACM Conference on Supported Cooperative Work and Social Computing (CSCW)

How Do Software Developers Use GitHub Actions to Automate Their Workflows?

MSR 2021

KINSMAN, T., WESSEL, M., GEROSA, M., TREUDE, C.

- Mining Software Repositories (MSR)

What to Expect from Code Review Bots? A Survey with OSS Maintainers

SBES 2020

WESSEL, M., SEREBRENIK, A., WIESE, I., STEINMACHER, I., GEROSA, M.

- Insightful Ideas and Emerging Results Track of Brazilian Symposium on Software Engineering (SBES - IIER)

Effects of Adopting Code Review Bots on Pull Requests to OSS Projects

ICSME 2020

WESSEL, M., SEREBRENIK, A., WIESE, I., STEINMACHER, I., GEROSA, M.

- 36th IEEE International Conference on Software Maintenance and Evolution (ICSME)
[Distinguished Paper Award]

Co-designing a Conversational Interactive Exhibit for Children

IDC 2020

CANDELLO, H., VIDON, S., PINHANEZ, C., AND WESSEL, M.

- 19th ACM Interaction Design and Children (IDC)

Teaching Robots to Act and Converse in Physical Spaces: Participatory Design Fictions with Museum Guides

HTTF 2019

CANDELLO, H., PICHILIANI, M., WESSEL, M., PINHANEZ, C., AND MULLER, M.

- Halfway to the Future Symposium (HTTF 2019)

The Power of Bots: Characterizing and Understanding Bots in OSS Projects

CSCW 2018

WESSEL, M., DE SOUZA, B. M., STEINMACHER, I., WIESE, I. S., POLATO, I., CHAVES, A. P., AND GEROSA, M. A.

- ACM Conference on Supported Cooperative Work and Social Computing (CSCW)

Tweaking Association Rules to Optimize Software Change Recommendations

SBES 2017

WESSEL, M., ANICHE, M. F., OLIVA, G. A., GEROSA, M. A., AND WIESE, I. S.

- 31st Brazilian Symposium on Software Engineering (SBES)

PEER REVIEWED WORKSHOP PAPERS

Enhancing Developers' Support on Pull Requests Activities with Software Bots

ESEC/FSE 2020

WESSEL, M.

- ESEC/FSE 2020 Doctoral Symposium

Leveraging Software Bots to Enhance Developers' Collaboration in Online Programming Communities

CSCW Companion 2020

WESSEL, M.

- Companion Publication of the 2020 Conference on Computer Supported Cooperative Work and Social Computing: Doctoral Consortium

The Inconvenient Side of Software Bots on Pull Requests

BotSE 2020

WESSEL, M., AND STEINMACHER, I.

- 2nd International Workshop on Bots in Software Engineering (BotSE)

Unveiling Practices and Challenges of Machine Teachers of Customer Service Conversational Systems

CUI@CHI 2020

CANDELLO, H., **WESSEL, M.**, PINHANEZ, C., AND VIDON, S.

- CHI2020 workshop: Mapping Grand Challenges for the Conversational (CUI@CHI)

30 Minutes to Introduce AI to Kids

AAAI Fall Symposium 2019

CANDELLO, H., PICHILIANI, M., PINHANEZ, C., AND **WESSEL, M.**

- Teaching AI in K-12 Symposium (2019 AAAI Fall Symposium)

Should I Stale or Should I Close? An Analysis of a Bot that Closes Abandoned Issues and Pull Requests

BotSE 2019

WESSEL, M., STEINMACHER, I., WIESE, I., AND GEROSA, M. A.

- 1st Workshop on Bots in Software Engineering (BotSE)