Willian Nalepa Oizumi

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SHort Bio

I completed a MSc degree in Computer Science at the Pontifical Catholic University of Rio de Janeiro (PUC-Rio) in September 2015. I have more than six years of professional experience with software development. Currently, I am a Teaching Faculty at the Federal Institute of Parana (IFPR) and a Ph.D. Candidate at the PUC-Rio – expecting to graduate by June 2021. My research is on the Software Engineering field, with a focus on the following topics: Software Architecture and Design, Code Smells, Refactoring, Empirical Software Engineering and Search-based Software Engineering. In my Ph.D. research, I am working on a technique to assist developers in the identification and removal of design problems, which occur when quality attributes are negatively impacted. During my MSc and Ph.D. I had the opportunity to publish papers in prestigious conferences and journals, such as ICSE (2016, 2018), MSR (2020), IST (2020), SPLC (2014), ESEM (2019), ISSRE (2019), and ICPC (2019, 2020). In 2016, my MSc research was awarded as the third best computer science dissertation of the Brazilian Contest of Theses and Dissertations.

Education

- Pontifical Catholic University of Rio de Janeiro – PUC-RIO – **Ph.D. in Computer Science** – Feb/2017 – Jun/2021 (expected). **Advisor:** Alessandro Garcia.

- Pontifical Catholic University of Rio de Janeiro – PUC-RIO – **MSc in Computer Science** – Feb/2013 – Sep/2015. **Advisor:** Alessandro Garcia.

- Maringa State University – UEM – **BS in Computer Science** – Feb/2008 to Dec/2012. **Advisors:** Sandra Ferrari and Thelma Colanzi.

Professional Experience

- **Teaching Faculty**: Federal Institute of Parana (IFPR) – 2016 – Currently
- **Senior Software Developer**: HSBC Global Technology (GLT) – 2015 – 2016
- **Software Analyst Intern:** Software Engineering Laboratory of PUC-Rio – 2013 –2015
- **Software Developer:** Objective Solutions – 2012 – 2013
- **Software Developer**: Cwork Systems – 2010 – 2012

Awards

- Distinguished Paper Award - Brazilian Symposium of Software Engineering - 2020
- Best Paper - Brazilian Symposium on Software Components, Architectures, and Reuse - 2019
- **Distinguished Paper Award - International Conference on Software Engineering - 2018**
- 2nd Best Paper - Brazilian Symposium on Software Components, Architectures, and Reuse - 2017

- Best Paper - Brazilian Symposium on Software Components, Architectures, and Reuse - 2016
- **3rd Best MSc Dissertation - Brazilian Contest of Theses and Dissertations of SBC - 2016**
- Java Assessment Topper - HSBC Global Technology - 2015
- 3rd Best Paper - Brazilian Symposium of Software Engineering - 2014
- Best Paper - Workshop on Software Modularity – 2014
- FAPERJ Nota 10 Scholarship – 2014

HIGHLIGHTED PUBLICATIONS

Sousa, L.; Cedrim, D.; Garcia, A.; Oizumi, W.; Bibiano, A.; Tenorio, D.; Kim, M.; Oliveira, A. **"Characterizing and Identifying Composite Refactorings: Concepts, Heuristics and Patterns".** 17th International Conference on Mining Software Repositories (MSR), 2020.

Uchôa, A.; Barbosa, C.; Oizumi, W.; Blenílio, P.; Lima, R.; Garcia, A.; Bezerra, C. "How Does Modern Code Review Impact Software Design Degradation? An In-depth Empirical Study". 36th International Conference on Software Maintenance and Evolution (ICSME), 2020.

Sousa, L.; Oliveira, A.; Oizumi, W.; Barbosa, S.; Garcia, A.; Lee, J.; Fonseca, B.; Oliveira, R.; Lucena, C.; Paes, R. **"Identifying Design Problems in the Source Code: A Grounded Theory"**. 40th International Conference on Software Engineering (ICSE), 2018.

Oizumi, W.; Garcia, A.; Sousa, L.; Cafeo, B.; Zhao, Y. **"Code Anomalies Flock Together: Exploring Code Anomaly Agglomerations for Locating Design Problems"**. 38th International Conference on Software Engineering (ICSE), 2016.

QUANTITATIVE INDICATORS

Publications in conferences with selective editorial policy	21
Publications in journals with selective editorial policy	4
Publications in workshops	3
Number of citations received according to Google Scholar (Jan, 2021)	379
H-index according to Google Scholar (Jan, 2021)	9
i10-index according to Google Scholar (Jan, 2021)	9

SERVICE

Journal Editor
- Guest Co-Editor of Revista Mundi ETG – Two special issues including papers from a regional conference (2017-2019).

Program Committee Membership
- Mining Software Repositories Conference - MSR - Shadow PC (2021).
- Brazilian Software Quality Symposium – SBQS (2020).
- Workshop on Theses and Dissertations of CBSoft (2019, 2020).

- Argentine Symposium on Software Engineering - ASSE (2019).
- IEEE Working Conference on Software Visualization – VISSOFT – Artifact Evaluation Track (2016).

Event Organization

- Proceedings co-chair of the Brazilian Conference on Software: Practice and Theory – CBSoft (2016).
- Co-organizer of the Scientific Week of IFPR Paranavai (2016, 2017, 2018, 2019, 2020).
- Student volunteer of the 1st Latin-American School on Software Engineering (2014).
- Student volunteer of the Modularity and Software Architecture @ PUC-Rio (2013).
- Co-organizer of the Coding Dojo Maringa (2012).

Journal Reviews

- IET Software (2019-2020).
- Revista Mundi ETG (2017-2018).

Conference and Journal Reviews as Sub-Reviewer

- International Conference on Software Engineering – ICSE (2020, 2017).
- Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering – ESEC/FSE (2020, 2016).
- Mining Software Repositories – MSR (2020, 2019).
- Information and Software Technology Journal (2019).
- International Conference on Software Maintenance and Evolution – ICSME (2016).
- International Symposium on Empirical Software Engineering and Measurement – ESEM (2019).
- International Conference on Program Comprehension – ICPC (2018).
- Software Quality Journal (2014).
- Brazilian Symposium on Software Engineering – SBES (2020).
- Journal of the Brazilian Computer Society – JBCS (2019).

LANGUAGES - INTERAGENCY LANGUAGE ROUNDTABLE SCALE (ILR SCALE)

- English: ILR Level 4 – Full professional proficiency.
- Portuguese: ILR Level 5 – Native or bilingual proficiency.