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Personal Information	<i>Date of birth:</i> May 15, 1986 <i>Nationality:</i> Brazilian <i>Residence:</i> Eindhoven, The Netherlands
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Research Interests	Social and technical aspects of software engineering, mining software repositories, empirical software engineering, software maintenance and evolution, error handling, energy consumption.
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Academic Experience	<p><b>Postdoctoral Researcher - Eindhoven University of Technology</b> <i>Department of Mathematics and Computer Science</i> <b>March 2020 - Today</b> Software Engineering and Technology (SET) group <i>Research topics:</i> Software evolution (code reviews, technical debt, self-admitted technical debt, code comprehension), mining software repositories. Supervisor: Alexander Serebrenik</p> <p><b>Postdoctoral Researcher - Federal University of Pernambuco</b> <i>Informatics Center</i> <b>March 2019 - February 2020</b> National Institute of Science and Technology in Software Engineering <i>Research topics:</i> Software evolution (code reviews, code comprehension), mining software repositories. Supervisor: Fernando Castor</p>
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Education	<p><b>Federal University of Pernambuco, Brazil</b> <i>Informatics Center</i> Ph.D. Computer Science <b>February 2019</b></p> <ul style="list-style-type: none"><li>• Thesis Topic: "Understanding Confusion in Code Reviews"</li><li>• Advisor: Fernando Castor</li><li>• Co-Advisor: Alexander Serebrenik</li><li>• Areas: human aspects of code reviews, confusion, machine learning, exploratory software engineering.</li></ul> <p><b>Federal University of Pernambuco, Brazil</b> <i>Informatics Center</i> MSc Computer Science <b>August 2013</b></p> <ul style="list-style-type: none"><li>• Dissertation Topic: "An Exploratory Study on Exception Handling Bugs"</li><li>• Advisor: Fernando Castor</li><li>• Areas: Exception handling, bugs, software repository mining.</li></ul> <p><b>Federal University of Pernambuco, Brazil</b></p>
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*Informatics Center*

BSc Computer Science

**September 2009**

- Dissertation Topic: “Promodeller: Software Process Modeling Tool from BPMN files using Process Ontology”
- Advisor: Alexandre Marcos Lins de Vasconcelos
- Degree: 8.48/10
- Areas: Business Process Modeling Notation (BPMN), Software Process Engineering Metamodel (SPEM), software process ontology.

Grants

**PhD Scholarship - Sandwich Doctorate Program Abroad**

**March 2017 - February 2018**

*Coordenação de Aperfeiçoamento de Pessoal de Nível Superior - CAPES*

Scholarship to spend one year working at TU/e granted by the CAPES.

Monetary amount: € 20,490.00 (EUR)

**PhD Scholarship - Aid to Student Mobility**

**October 2016 - January 2017**

*Fundação de Amparo a Ciência e Tecnologia do Estado de Pernambuco - FACEPE*

Scholarship to spend 3 months working at TU/e granted by the FACEPE.

Monetary amount: R\$ 117,120.00 (BRL)

**PhD Scholarship**

**March 2014 - February 2018**

*Fundação de Amparo a Ciência e Tecnologia do Estado de Pernambuco - FACEPE*

Scholarship for my PhD program at UFPE granted by the FACEPE.

Monetary amount: R\$ 11,920.00 (BRL)

Awards

**Distinguished Reviewer Award**

XIV Brazilian Symposium on Software Components, Architectures, and Reuse (SBCARS'2020)

**Best PhD Thesis of 2019**

Informatics Center from Federal University of Pernambuco

*Title:* Understanding Confusion in Code Reviews

**Best Paper Award**

International Conference on Software Analysis, Evolution, and Reengineering (SANER'2019)

*Title:* Confusion in Code Reviews: Reasons, Impacts, and Coping Strategies [7]

**Distinguished Reviewer Award**

XIII Brazilian Symposium on Software Components, Architectures, and Reuse (SBCARS'2019)

Teaching  
Experience

**Department of Mathematics and Computer Science, Eindhoven University of Technology**

*Course:* Programming (BSc) - 2IP90

**2021 - 2022 Q1**

*Teaching Assistant*

*Duties:* Preparation and conduction of on-campus instructions for the Java Programming course for first year students. I worked with a group of about 30 students. The content of the instructions was a quick review of the lecture content and working on collaboration exercises with the students, also helping them on the exercises. Additionally, I was also responsible for managing the Teaching Assistants (students) who helped with the instructions and grading.

*Expertise gained:* Ability to teach on-campus setting. Additionally, I tried to apply learning theories: such as preparing Learning Outcomes and following the Principles of Instruction, even for every single instruction.

**Department of Mathematics and Computer Science, Eindhoven University of Technology**

*Course:* Software/Web Engineering Project course (BSc) - 2IPE0

**2020 - 2021 Q3**

*Teaching Assistant*

*Duties:* Supervision of a software project group, review and grading of the software documents produced by the students. All supervision was on the online setting.

*Expertise gained:* Ability to teach and supervise students' projects about software development process on the online setting.

**Department of Mathematics and Computer Science, Eindhoven University of Technology**

*Course:* Software Evolution (MSc) - 2IMP25

**2020 - 2021 Q3**

*Guest Lecture*

*Duties:* Guest lecture about code reviews and confusion.

**Department of Mathematics and Computer Science, Eindhoven University of Technology**

*Course:* Programming (BSc) - 2IP90

**2020 - 2021 Q1**

*Teaching Assistant*

*Duties:* Preparation and conduction of on-campus instructions for the Java Programming course for first year students. I worked with two different groups of students (one with 23 students and another with 13 students). The content of the instructions was a small review of the lecture content and working on collaboration exercises with the students, also helping them on the exercises.

*Expertise gained:* Ability to teach on-campus setting, while keeping the 1.5m distance rule. Additionally, I tried to apply learning theories: such as preparing Learning Outcomes and following the Principles of Instruction, even for every single instruction.

**Department of Mathematics and Computer Science, Eindhoven University of Technology**

*Course:* Software/Web Engineering Project course (BSc) - 2IPE0

**2019 - 2020 Q4**

*Teaching Assistant*

*Duties:* Supervision of a software project group, review and grading of the software documents produced by the students. All supervision was on the online setting.

*Expertise gained:* Ability to teach and supervise students' projects about software development process on the online setting.

**Department of Mathematics and Computer Science, Eindhoven University of Technology**

*Course:* Software Evolution (MSc) - 2IMP25

**2019 - 2020 Q4**

*Guest Lecture*

*Duties:* Guest lecture about understanding confusion in code reviews.

**Informatics Center, Federal University of Pernambuco**

*Course:* Software Engineering

**2008 Q1-Q4**

*Student Assistant*

*Workload:* 480 hours

*Duties:* Preparation and conduction of on-campus instructions for the whole class during the whole semester. Additionally, grading of homework assignments.

**Informatics Center, Federal University of Pernambuco**

*Course:* Database

**2007 Q1-Q4**

*Student Assistant*

*Workload:* 480 hours

*Duties:* Preparation and conduction of on-campus instructions for the whole class during the whole semester. Additionally, grading of homework assignments.

**Informatics Center, Federal University of Pernambuco**

*Course:* Linear and Vector Algebra

**2005 Q3-Q4**

*Student Assistant*

*Workload:* 240 hours

*Duties:* Preparation and conduction of on-campus instructions for the whole class during the whole semester. Additionally, grading of homework assignments.

**Professional  
Experience**

**IBM – Recife, Brazil**

*Java Developer*

**July 2009 – September 2011**

*Duties:* Development of WEB systems for the control of the websites of IBM customers. Technologies used: Java, Struts, Servlets, Java Server Pages (JSP), Java Server Faces (JSF).

**E.life Company – Recife, Brazil**

*Java Developer*

**August 2008 – July 2009**

*Duties:* Development of client-server systems based on WEB with data base. Technologies used: JAVA, CXF, and MySQL.

**Publications**

- [12] Gabrielle Porto, Rodrigo Andrade, Felipe Ebert, “A Comparative Analysis Between Information Flow Control Tools for Java-written systems”, to appear in the **15th Brazilian Symposium on Software Components, Architectures and Reuse (SBCARS)**, 2021.
- [11] Felipe Ebert, Fernando Castor, Nicole Novielli, Alexander Serebrenik, “An Exploratory Study on Confusion in Code Reviews”, **Empirical Software Engineering (EMSE)**, Vol. 26, Art. 12, pp. 1-48, 2021.
- [10] Felipe Ebert, “From Transient Information to Persistent Documentation: Enhancing Software Documentation”, **36th IEEE International Conference on Software Maintenance and Evolution (ICSME)**, pp. 849-853, 2020.
- [9] Victor Oliveira, Leopoldo Teixeira, Felipe Ebert, “On the Adoption of Kotlin on Android Development: A Triangulation Study”, **27th International Conference on Software Analysis, Evolution and Reengineering (SANER)**, pp. 206-216, 2020.
- [8] Felipe Ebert, Fernando Castor, Alexander Serebrenik, “A Reflection on ‘An Exploratory Study on Exception Handling Bugs in Java Programs’”, **27th International Conference on Software Analysis, Evolution and Reengineering (SANER)**, pp. 552-556, 2020.

- [7] Felipe Ebert, Fernando Castor, Nicole Novielli, Alexander Serebrenik, “*Confusion in Code Reviews: Reasons, Impacts, and Coping Strategies*”, **26th International Conference on Software Analysis, Evolution and Reengineering (SANER)**, pp. 49-60, 2019.
- [6] Felipe Ebert, Fernando Castor, Nicole Novielli, Alexander Serebrenik, “*Communicative Intention in Code Review Questions*”. **34th International Conference on Software Maintenance and Evolution (ICSME)**, pp. 519-523, 2018.
- [5] Felipe Ebert, Fernando Castor, Nicole Novielli, Alexander Serebrenik, “*Confusion Detection in Code Reviews*”, **33rd International Conference on Software Maintenance and Evolution (ICSME)**, pp. 549-553, 2017.
- [4] Marcel Rebouças, Gustavo Pinto, Felipe Ebert, Wesley Torres, Alexander Serebrenik, Fernando Castor, “*An Empirical Study on the Usage of the Swift Programming Language*”, **23rd International Conference on Software Analysis, Evolution, and Reengineering (SANER)**, pp. 634-638, 2016.
- [3] Felipe Ebert, Fernando Castor, Alexander Serebrenik, “*An Exploratory Study on Exception Handling Bugs in Java Programs*”, **Journal of Systems and Software (JSS)**, Elsevier, Vol. 106, pp. 82-101, 2015.
- [2] Irineu Moura, Gustavo Pinto, Felipe Ebert, Fernando Castor, “*Mining Energy-Aware Commits*”, **12th Working Conference on Mining Software Repositories (MSR)**, pp. 56-67, 2015.
- [1] Felipe Ebert, Fernando Castor, “*A Study on Developers' Perceptions about Exception Handling Bugs*”, **29th International Conference on Software Maintenance (ICSM)**, pp. 448-451, 2013.

Invited  
Presentations

- **An Exploratory Study on Confusion in Code Reviews**, invited for the BENEVOL 2020 (BELgian-NETHERlands software eVOLution symposium), Luxembourg, December 2020.
- **Understanding Confusion in Code Reviews**, invited by Miguel Botto Tobar as a keynote for the International Conference on Technology Trends, Universidad Técnica de Babahoyo – Ecuador, August 2019.
- **Confusion Detection in Code Reviews**, invited by Jens Krinke for the CREST Open Workshop (COW), University College London – UK, November 2017.
- **Confusion Detection in Code Reviews**, invited for the BENEVOL 2017 (BELgian-NETHERlands software eVOLution symposium), University of Antwerp – Belgium, April 2017.

Reviewer of  
Journals

- Transactions on Software Engineering (TSE)
- Empirical Software Engineering (EMSE)
- Journal of Systems & Software (JSS)
- IEEE Software
- Science of Computer Programming (Original Software Publications)
- Institution of Engineering and Technology (IET) Software

Program  
Committee

- Mining Software Repositories Conference (**MSR 2022**):
  - Technical track

Member	<ul style="list-style-type: none"> <li>• International Conference on Software Maintenance and Evolution (<b>SANER 2022</b>): <ul style="list-style-type: none"> <li>○ Technical track</li> </ul> </li> <li>• International Conference on Program Comprehension (<b>ICPC 2022</b>): <ul style="list-style-type: none"> <li>○ Technical track</li> </ul> </li> <li>• International Conference on Software Maintenance and Evolution (<b>ICSME 2021</b>): <ul style="list-style-type: none"> <li>○ New Ideas and Emerging Results (NIER) track</li> <li>○ Artifact Evaluation track</li> </ul> </li> <li>• Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (<b>ESEC/FSE 2021</b>): <ul style="list-style-type: none"> <li>○ Artifact Evaluation track</li> </ul> </li> <li>• Mining Software Repositories Conference (<b>MSR 2021</b>): <ul style="list-style-type: none"> <li>○ Technical track</li> <li>○ Data Showcase track</li> <li>○ Registered Reports track</li> </ul> </li> <li>• International Conference on Automated Software Engineering (<b>ASE 2021</b>): <ul style="list-style-type: none"> <li>○ Late Breaking Results track</li> <li>○ Artifact Evaluation track</li> </ul> </li> <li>• 15th Brazilian Symposium on Software Components, Architectures, and Reuse (<b>SBCARS 2021</b>)</li> <li>• International Conference on Software Maintenance and Evolution (<b>ICSME 2020</b>): <ul style="list-style-type: none"> <li>○ Doctoral Symposium track</li> </ul> </li> <li>• Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (<b>ESEC/FSE 2020</b>): <ul style="list-style-type: none"> <li>○ Student Research Competition track</li> </ul> </li> <li>• Seminar Series on Advanced Techniques &amp; Tools for Software Evolution (<b>SATToSE 2020</b>)</li> <li>• XIV Brazilian Symposium on Software Components, Architectures, and Reuse (<b>SBCARS 2020</b>)</li> <li>• VIII Workshop on Software Visualization, Evolution and Maintenance (<b>VEM 2020</b>)</li> <li>• XXXIII Brazilian Symposium on Software Engineering (<b>SBES 2019</b>): <ul style="list-style-type: none"> <li>○ Insightful Ideas &amp; Emerging Results track</li> </ul> </li> <li>• XIII Brazilian Symposium on Software Components, Architectures, and Reuse (<b>SBCARS 2019</b>)</li> <li>• VII Workshop on Software Visualization, Evolution and Maintenance (<b>VEM 2019</b>)</li> <li>• The 4th International Conference on Technology Trends (<b>CITT 2018</b>)</li> <li>• The 3rd International Conference on Technology Trends (<b>CITT 2017</b>)</li> </ul>
Organizing Committee	<ul style="list-style-type: none"> <li>• Hybridization co-chair: Mining Software Repositories Conference (<b>MSR 2022</b>) <ul style="list-style-type: none"> <li>○ Chairs: David Lo, Shane McIntosh, Nicole Novielli</li> </ul> </li> <li>• Co-chair: 1st Workshop on Automated Support to Improve code Readability (<b>AeSIR 2021</b>) <ul style="list-style-type: none"> <li>○ Collocated with ASE 2021</li> <li>○ Chairs: Felipe Ebert, Fernanda Madeiral, Simone Scalabrino, Fernando Castor, Rocco Oliveto</li> </ul> </li> <li>• Co-chair: 9th Workshop on Software Visualization, Evolution and Maintenance (<b>VEM 2021</b>) <ul style="list-style-type: none"> <li>○ Collocated with CBSOFT 2021</li> <li>○ Chairs: Fernanda Madeiral, Felipe Ebert</li> </ul> </li> </ul>

Student Volunteer	<ul style="list-style-type: none"> <li>Systems, Programming, Languages and Applications: Software for Humanity (<b>SPLASH 2016</b>)</li> </ul>	
Master student Co-Advisor	<p><b>Rafael Borba Costa dos Santos</b>  <i>Master Project</i>  Topic: “Understanding how the combination of atoms of confusion affect program comprehension”, Federal University of Pernambuco (with Prof. Fernando Castor).</p> <p><b>Mariska Jacobs</b>  <i>Master Project</i>  Topic: “Understanding how questions influence code reviews”, Eindhoven University of Technology (with Prof. Alexander Serebrenik, Prof. Nicole Novielli, and Prof. Reed Milewicz).</p> <p><b>Eric Arts</b>  <i>Individual Research Project (Capita Selecta)</i>  Topic: “Investigating the usage of the TODO Bot”, Eindhoven University of Technology (with Prof. Alexander Serebrenik).</p> <p><b>Tianyu Liu</b>  <i>Individual Research Project (Capita Selecta)</i>  Topic: “Confusion analysis in code reviewing”, Eindhoven University of Technology (with Prof. Alexander Serebrenik).</p>	<p><b>2021 – today</b></p> <p><b>2021 – today</b></p> <p><b>2020</b></p> <p><b>2018</b></p>
Bachelor student Co-Advisor	<p><b>Nguyen, Linh</b>  <i>Bachelor Research Project</i>  Topic: “Investigating the relationship between atoms of confusion and developer’s expression of confusion in code reviews”, Eindhoven University of Technology (with Prof. Alexander Serebrenik, Prof. Fernando Castor, and Prof. Mauricio Aniche).</p> <p><b>Mariska Jacobs</b>  <i>Bachelor Research Project</i>  Topic: “Investigating the relationship between atoms of confusion and developer’s expression of confusion in code reviews”, Eindhoven University of Technology (with Prof. Alexander Serebrenik, Prof. Fernando Castor, and Prof. Mauricio Aniche).</p>	<p><b>2021 – today</b></p> <p><b>2021 – today</b></p>
Thesis and Dissertation Committees	<p><b>Gabrielle Amorim Porto</b>  <i>Bachelor thesis – Computer Science</i>  Informatics Center - Federal University of Pernambuco (UFPE)  Topic: “Uma Análise Comparativa Entre Ferramentas de Controle de Fluxo de Informação Para Sistemas Java” (A Comparative Analysis Between Information Flow Control Tools for Java Systems).  Advisor: Rodrigo Cardoso Amaral de Andrade</p> <p><b>Willer Amorim Sabino de Araujo</b>  <i>Bachelor thesis – Computer Engineering</i>  Informatics Center - Federal University of Pernambuco (UFPE)</p>	<p><b>November 2020</b></p> <p><b>July 2019</b></p>

*Topic:* “Análise do potencial de revisão de código em detectar defeitos” (Analysis of the potential for code review to detect defects).

*Advisor:* Paulo Henrique Monteiro Borba

Languages	<ul style="list-style-type: none"> <li>• <b>Dutch</b> (beginner – in progress)</li> <li>• <b>English</b> (fluent)</li> <li>• <b>Portuguese</b> (native language)</li> </ul>	
Courses	<p><b>Supervising MSc-Students</b> Eindhoven University of Technology Workload: 6 hours</p> <p><b>Teaching Skills for PhD students</b> Eindhoven University of Technology Workload: 12 hours</p> <p><b>Teaching &amp; Learning in Higher Education</b> Eindhoven University of Technology UTQ/BKO training program Workload: 25 hours</p>	<p><b>March 2021</b></p> <p><b>September 2020</b></p> <p><b>June 2020</b></p>
Academic Profiles	<ul style="list-style-type: none"> <li>• <b>Google Scholar:</b> <a href="https://scholar.google.com/citations?user=0_kRyLwAAAAJ">https://scholar.google.com/citations?user=0_kRyLwAAAAJ</a></li> <li>• <b>DBLP:</b> <a href="https://dblp.uni-trier.de/pers/hd/e/Ebert:Felipe">https://dblp.uni-trier.de/pers/hd/e/Ebert:Felipe</a></li> </ul>	
Social Profiles	<ul style="list-style-type: none"> <li>• <b>Twitter:</b> <a href="https://twitter.com/felipe_fifo">https://twitter.com/felipe_fifo</a></li> <li>• <b>LinkedIn:</b> <a href="https://www.linkedin.com/in/felipe-ebert-1830401b3">https://www.linkedin.com/in/felipe-ebert-1830401b3</a></li> </ul>	
References' contacts	<ol style="list-style-type: none"> <li>1. <b>Prof. Alexander Serebrenik:</b> E-mail: <a href="mailto:a.serebrenik@tue.nl">a.serebrenik@tue.nl</a> Department of Mathematics and Computer Science Eindhoven University of Technology (TU/e) Address: MF 6.087, P.O. Box 513, 5600 MB – Eindhoven, The Netherlands Phone: +31 40 247 3595 (office) Website: <a href="https://www.win.tue.nl/~aserebre">https://www.win.tue.nl/~aserebre</a></li> <li>2. <b>Prof. Fernando Castor:</b> E-mail: <a href="mailto:f.j.castordelimafilho@uu.nl">f.j.castordelimafilho@uu.nl</a> Information and Computing Sciences Utrecht University (UU) Address: Heidelberglaan 8, 3584 CS - Utrecht, The Netherlands Website: <a href="https://sites.google.com/a/cin.ufpe.br/castor">https://sites.google.com/a/cin.ufpe.br/castor</a></li> <li>3. <b>Prof. Nicole Novielli:</b> E-mail: <a href="mailto:nicole.novielli@uniba.it">nicole.novielli@uniba.it</a> Department of Computer Science University of Bari</li> </ol>	



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