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# Curriculum Vitae

## Personal Information

**Full Name:** Luciana Brasil Rebelo dos Santos

**Researcher unique identifier:** <https://orcid.org/0000-0002-5193-6218>

**Nationality:** Brazilian

**Address:** Rua dos Uiramiris, n.160 – casa 79 – São José dos Campos - São Paulo - Brazil. 12227-660

**E-mail & Telephone:** [lurebelo@ifsp.edu.br](mailto:lurebelo@ifsp.edu.br) / [lurebelo@gmail.com](mailto:lurebelo@gmail.com) +55 12 99138-9481

## Education

- 2010-09-01 to 2015-10-02: Laboratory of Computing and Applied Mathematics (LABAC)/ National Institute for Space Research (INPE)/ Brazil

**Ph.D. in Applied Computing.** Thesis Title: *A Methodology to Apply Formal Verification to UML-based Software.* Supervisors: Nandamudi Lankalapalli Vijaykumar and Valdivino Alexandre de Santiago Júnior. URL: [http://mtc-m21b.sid.inpe.br/col/sid.inpe.br/mtc-m21b/2015/09.08.18.24/doc/publicacao.pdf?meta\\_datarepository=&mirror=iconet.com.br/banon/2007/01.10.09.37](http://mtc-m21b.sid.inpe.br/col/sid.inpe.br/mtc-m21b/2015/09.08.18.24/doc/publicacao.pdf?meta_datarepository=&mirror=iconet.com.br/banon/2007/01.10.09.37)

- 2006-08-01 to 2010-02-25: Computer Science Division (IEC)/ Aeronautics Institute of Technology (ITA)/ Brazil

**M.S. in Electronic Engineering and Computing.** Dissertation Title: *An Extensible Data Model to Configure Wireless Sensor Network Simulation.* Supervisor: Celso Massaki Hirata.

- 1997-02-14 to 2001-01-20: Department of Computer Science/ Faculty of Science/ Paulista State University Júlio de Mesquita Filho/ Brazil

**Bachelor of Information Systems.**

## Current Academic Position

- 2014/09/11 to present: **Assistant Professor** – Informatics Department/ Federal Institute for Education, Science, and Technology of São Paulo (IFSP)/ Brazil

*Main assignments include teaching, administrative duties, and research. Teaching responsibilities involve teaching across the undergraduate curriculum as well as secondary technical education curriculum. Administrative duties encompass academic advising, serving on numerous committees, such as campus council, collegiate course, commission of various kinds (recruiting, organising events, etc), program coordination, revising pedagogical course curriculum, developing course materials, technical visits, among others. Scholarly activities related to research consist of research group leadership, supervising research projects, building projects to obtain funds, writing papers, and pursuing partnerships with other organizations.*

## Employment History:

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- 2013-08-28 to 2014-09-09: **Temporary Lecturer** - Department of Information Technology/ São Paulo Faculty of Technology/ Brazil

*Duties included undergraduate teaching, integrating examination boards, attending educational and administrative meetings, and coordinating the final graduation works arrangement for the Systems Analysis and Development Course.*

- 2005-01-01 to 2006-07-07: **Trainee Consultant** - Laboratory Information Management System (LIMS)/ Cybertécnica Instrumentation and Technology/ Brazil

*Duties included implementation of solutions for industries of process using both Nautilus and Sample Manager LIMS Systems, handling hardware and software issues, or monitoring databases (mainly Oracle and Sybase). Also, attending customers in helpdesk support and training new employees in LIMS systems.*

- 2000-12-04 to 2003-05-15: **Consultant** - Enterprise Risk Services (ERS)/ Deloitte Touche Tohmatsu/ Brazil

*Duties included Systems Audit (using ACL – a language similar do SQL), strategic consulting (evaluation and establishment of control structures, considering the strategic and operational views), Business Process, and Information Management.*

## Research Experience

## Publications

### Publication in refereed journals

- Luciana Brasil Rebelo dos Santos; Valdivino Alexandre de Santiago Júnior; Lucas Venezian Pova; Albino Vieira Freitas; Cleyton Castro Mario. **Software inspections: comparing a formal method based with a classical reading methodology.** *International Journal of Computer Applications in Technology* . v. 59, p. 296, 2019 (2019, journal-article).
- Dos Santos, Jemison; Martins, Luiz Eduardo G.; De Santiago Júnior, Valdivino A.; Pova, Lucas Venezian; Dos Santos, Luciana Brasil R.. **Software requirements testing approaches: a systematic literature review.** *Requirements Engineering*, v. 24, p. 1-21, 2019 (2019, journal-article).

### Publications in refereed conference proceedings

- Brasil Rebelo dos Santos, Luciana; Hita, C. G. G. ; Mario, C. C. ; Silverio, M. ; Soares, R. J. **A system to Support the Physiotherapeutic Treatment of Chronic Pain in the Spine.** In: 16th Iberian Conference on Information Systems and Technologies (CISTI), 2021, Chaves - Portugal. *Proceedings of CISTI'2021 - 16th Iberian Conference on Information Systems and Technologies*. Rio Tinto, Portugal: AISTI - Iberian Association for Information Systems and Technologies, 2021.
- Eras, Eduardo Rohde ; Santiago Junior, V. A. ; Brasil Rebelo dos Santos, Luciana. **Singularity: A methodology for automatic unit test data generation for C++ applications based on Model Checking counterexamples.** In: IV Brazilian Symposium on Systematic and Automated Software Testing (SAST 2019). *Proceedings of the X Brazilian Conference on Software (CBSOFT 2019)*. New York: ACM Press p. 72, 2019 (2019, conference-paper)

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- Silverio, M.; dos Santos, Luciana Brasil Rebelo. **Evaluating User Experience Elements on a Web System to Support Physiotherapeutic Treatment.** In: *Companion Proceedings of the Brazilian Symposium on Multimedia and Web (WebMedia)*. Porto Alegre - RS - Brazil: Brazilian Computer Society (SBC) p. 51-54, 2019 (2019, conference-paper).
- Brasil Rebelo dos Santos, Luciana; Sales, C. P.; Santiago Junior, V. A. **XMITS: Software Inspections via Formal Verification.** *Proceedings of the IX Brazilian Conference on Software - Tool Session*. p. 55-60, 2018. (2018, conference-paper).
- Brasil Rebelo dos Santos, Luciana; Freitas, R. C.; Rodrigues Junior, L. A. ; Venezian, L. P. ; Cunha, A. M. **Teaching Web Programming based on Interdisciplinary Projects: an Experience Report.** *Athens: ATINER'S Conference Paper Series*. Athens - Greece: Athens Institute for Education and Research, p. 1-15, 2017. (2017, conference-paper).
- Brasil Rebelo dos Santos, Luciana; Alexandre de Santiago, Valdivino; Lankalapalli Vijaykumar, Nandamudi. **Transformation of UML Behavioral Diagrams to Support Software Model Checking.** *Electronic Proceedings in Theoretical Computer Science*, v. 147, p. 133-142, 2014 (2014, conference-paper).
- Santos, L. B. R.; Berkenbrock, G. R.; Hirata, Celso M..**Um Modelo de Dados Extensível para Configuração da Simulação de Redes de Sensores Sem Fio.** Brazilian Symposium on Ubiquitous and Pervasive Computing (SBCUP). *Proceedings of the XXX Brazilian Computing Society Conference*, 2010 (2010 | conference-paper).

#### Chapters in Books Publications

- Matsumura, G. ; Brasil Rebelo dos Santos, Luciana ; Conceição, A. F. ; Vijaykumar, Nandamudi Lankalapalli. **Vulnerabilities and Open Issues of Smart Contracts: A Systematic Mapping.** Computational Science and Its Applications – ICCSA 2021. *Lecture Notes in Computer Science*. Springer International Publishing. (2021, book-chapter).
- dos Santos, Luciana Brasil Rebelo; de Santiago Júnior, Valdivino Alexandre; Freitas, Albino Vieira. **A Rigorous Evaluation of the Benefits of Usability Improvements Within Model Checking-Aided Software Inspections.** Computational Science and Its Applications – ICCSA 2017. *Lecture Notes in Computer Science*. 1ed.: Springer International Publishing, v. 10408, p. 591-606, 2017. (2017, book-chapter).
- Eras, Eduardo Rohde; dos Santos, Luciana Brasil Rebelo; de Santiago Júnior, Valdivino Alexandre; Vijaykumar, Nandamudi Lankalapalli. **Towards a Wide Acceptance of Formal Methods to the Design of Safety Critical Software: an Approach Based on UML and Model Checking.** Computational Science and Its Applications - ICCSA 2015. *Lecture Notes in Computer Science*. 1ed.: Springer International Publishing, v. 9158, p. 612-627, 2015. (2015, book-chapter).
- dos Santos, Luciana Brasil Rebelo; Eras, Eduardo Rohde; de Santiago Júnior, Valdivino Alexandre; Vijaykumar, Nandamudi Lankalapalli. **A Formal Verification Tool for UML Behavioral Diagrams.** Computational Science and Its Applications – ICCSA 2014. *Lecture Notes in Computer Science*. 1ed.: Springer International Publishing, v. 8579, p. 696-711, 2014. (2014 | book-chapter).

#### Non-Refereed Publication

- Salvador, M. E. R. F. L.; Brasil Rebelo dos Santos, Luciana .**DoMAR: An Approach to Prevent Problems Related to Requirements Documentation and Management**. Sinergia (IFSP. ONLINE), v. 19, p. 44-52, 2018. (2018, magazine-article).
- Santos, L. B. R.; Santiago Junior, V. A.; Vijaykumar, N. L.. **Formal Verification of UML-based Software**. In: XII Workshop de Computação Aplicada, 2012, São José dos Campos. Conference Proceedings of the XII Workshop on Applied Computing - WORCAP, 2012 (2012, conference-paper).
- SANTOS, L. B. R.. **Árvore Genealógica das Ontologias**. University of São Paulo - Institute of Mathematics and Statistics. (2004, Technical Report).

#### CONFERENCES ATTENDED

- Brasil Rebelo dos Santos, Luciana (2021, June). *A system to Support the Physiotherapeutic Treatment of Chronic Pain in the Spine*. Paper presented at the 16th Iberian Conference on Information Systems and Technologies (CISTI'21). Chaves-Portugal.
- Brasil Rebelo dos Santos, Luciana (2021, April). Participant at the 14th IEEE International Conference on Software Testing, Verification and Validation (IEEE ICST2021). São Carlos-SP-Brazil.
- Brasil Rebelo dos Santos, Luciana (2019, November). *Evaluating User Experience Elements on a Web System to Support Physiotherapeutic Treatment*. Paper presented at the Brazilian Symposium on Multimedia and Web. Rio de Janeiro-RJ-Brazil.
- Brasil Rebelo dos Santos, Luciana (2018, September). *XMITS: Software Inspections via Formal Verification*. Paper presented and tool demonstration at the Brazilian Conference on Software - Tool Session. São Carlos-SP-Brazil.
- Brasil Rebelo dos Santos, Luciana (2015, October). *DoMAR: An Approach to Prevent Problems Related to Requirements Documentation and Management*. Paper presented at Innovation Day, special track of the 7th International Conference on Management of computational and collective Intelligence in Digital Ecosystems. Caraguatatuba-SP-Brazil.
- Brasil Rebelo dos Santos, Luciana (2014, June). *A Formal Verification Tool for UML Behavioral Diagrams*. Paper presented at the International Conference on Computational Science and Its Applications (ICCSA). Guimarães-Portugal.
- Brasil Rebelo dos Santos, Luciana (2014, November). *Converting UML Behavioral Diagrams to Transition Systems*. Poster presentation at the Workshop on Applied Computing. São José dos Campos-SP-Brazil.
- Brasil Rebelo dos Santos, Luciana (2013, November). *An algorithm to translate UML behavioral diagrams for formal verification*. Poster presentation at the Workshop on Applied Computing. São José dos Campos-SP-Brazil.
- Brasil Rebelo dos Santos, Luciana (2012, November). *Formal Verification of UML-based Software*. Paper presented at the Workshop on Applied Computing. São José dos Campos-SP-Brazil.

- Brasil Rebelo dos Santos, Luciana (2010, August). *Um Modelo de Dados Extensível para Configuração da Simulação de Redes de Sensores Sem Fio*. Paper presented at the Brazilian Computing Society Conference. Belo Horizonte-MG-Brazil.
- Brasil Rebelo dos Santos, Luciana (2007, August). *Necessidade de Meta-Modelagem em Simuladores de Redes de Sensores sem Fio*. Poster presentation at the Brazilian Symposium on Operational Research. Fortaleza-CE-Brazil.

## FURTHER DISSEMINATION

### Oral Communication

- Sartori, Fernanda; Santos, Luciana; Cavaglieri, Debora. **Women Week. Panel Discussion about Technology** at Youtube channel Conq Hub (in Portuguese). March, 2021. URL: <https://youtu.be/fIEGJe3FONQ>.
- Rodrigues, B. C.; Brasil Rebelo dos Santos, Luciana; Berkenbrock, C. D. M.; Negri, A. P.; Vieira, N.; Sartori, F.. **Women in technology. Panel Discussion** at Youtube channel Litoral Norte Tech (in Portuguese). 2020. URL: <https://www.youtube.com/watch?v=TK7GdnKW-BY>.
- Brasil Rebelo dos Santos, Luciana. **Artificial Satellites and the Brazilian Space Industry**. (Lecture - National Science and Technology Weeke at Federal Instute of São Paulo). 120 min. 2016.

### Posters

- Silverio, M.; Brasil Rebelo dos Santos, Luciana. **Investigação de Eventos Temporizados na Especificação Formal de Sistemas Reativos para Geração Automática de Testes de Software**. Poster presentation at the IFSP Congress on Innovation, Science and Technology, 2020.
- Silverio, M.; Brasil Rebelo dos Santos, Luciana. **Sistema de Apoio ao Tratamento Fisioterapêutico de Pacientes com Disfunções na Coluna Vertebral**. Poster presentation at the IFSP Congress on Innovation, Science and Technology, 2019.
- Sales, C. P. ; Brasil Rebelo dos Santos, Luciana ; Venezian, L. P.. **Uma Abordagem para Aplicar Verificação Formal a Projetos de Software Utilizando Apoio Computacional**. Poster presentation at the IFSP Congress on Innovation, Science and Technology, 2018.
- Ribeiro, M. L. ; Santos, L. B. R. ; Venezian, L. P.. **Interpretação da Língua Brasileira de Sinais com Movimento e Expressões Faciais Utilizando Redes Neurais Artificiais**. Poster presentation at the IFSP Congress on Innovation, Science and Technology, 2018.
- Calvi, U. C. B. ; Brasil Rebelo dos Santos, Luciana ; Venezian, L. P.. **BigLIBRAS: Arquitetura para Armazenamento e Gerenciamento de Modelos para Processamento de Linguagem Natural de Sinais**. Poster presentation at the IFSP Congress on Innovation, Science and Technology, 2017.
- Mario, C. C. ; Brasil Rebelo dos Santos, Luciana ; Hita, C. G. G.. **Aplicação de Mineração de Dados para Caracterizaçãoda Evolução de Pacientes com Dor Crônica na Coluna Vertebral**. Poster presentation at North Coast Scientific Initiation Seminar, 2017.

- Carelli, G. M. ; Venezian, L. P. ; Brasil Rebelo dos Santos, Luciana. **Análise de Desempenho de Banco de Dados de Código Aberto junto a Tecnologia Java para Armazenamento e Recuperação de Imagens Médicas**. Poster presentation at the IFSP Congress on Innovation, Science and Technology, 2016.

- Briet, R. ; Venezian, L. P. ; Brasil Rebelo dos Santos, Luciana . **Classificação de Expressões Faciais Utilizando Deep Learning para a Interpretação da Língua Brasileira de Sinais**. Poster presentation at the IFSP Congress on Innovation, Science and Technology, 2016.

- Mario, C. C.; Brasil Rebelo dos Santos, Luciana; Hita, C. G. G.. **Investigação de Base de Dados Objetivando o Entendimento da Evolução de Pacientes com Dor Crônica na Coluna Vertebral**. Poster presentation at the IFSP Congress on Innovation, Science and Technology, 2016.

- Freitas, A. V.; Brasil Rebelo dos Santos, Luciana; Venezian, L. P.. **Transformação de Diagramas UML em um Modelo de Estado Finito com Apresentação Visual Objetivando Verificação Formal de Software**. Poster presentation at the IFSP Congress on Innovation, Science and Technology, 2016.

- Eras, E. R.; Brasil Rebelo dos Santos, Luciana ; Arakaki, R.. **Um Leitor e Conversor de Arquivos XML para Sistemas de Transição de Estados**. Poster presentation at the Symposium on Scientific and Technological Initiation, 2014.

## Organisation of (inter)national conferences

25-29 October 2015, *"The 7th International Conference on Management of computational and collective intelligence in Digital EcoSystems"* (MEDES'15). MEDES'15 conference was held in Caraguatatuba - São Paulo, Brazil. Host Institution: Federal Institute for Education, Science, and Technology of São Paulo. I participated as Local Organizing Committee Member.

6-8 November 2012, *"The XII Workshop on Applied Computing"* (Worcap 2012). São José dos Campos-SP-Brazil. Host Institution: National Institute for Space Research. I participated as an Organizing Committee Member.

### Program Committee Member

- 17th International Conference on Computational Science and Its Applications. Trieste, Italy. (ICCSA 2017)
- 8th Brazilian Workshop on Systematic and Automated Software Testing. Maceió, Brazil. (SAST 2014)
- XIV Workshop of Applied Computing. São José dos Campos, Brazil. 2014
- XXVIII Southern Microelectronics Symposium. Porto Alegre, Brazil. EMICRO/SIM 2013.

## Major Collaborations

- Nandamudi Lankalapalli Vijaykumar, Software Testing, Software Verification and Validation, Laboratory of Computing and Applied Mathematics (LABAC)/ National Institute for Space Research (INPE) /Brazil

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- Gian Ricardo Berkenbrock, Software Verification and Validation, Embedded Systems, Department of Mobility Engineering/ Federal University of Santa Catarina (UFSC) /Brazil

## Memberships of scientific societies/networks

- 2019 – Present: Member, Brazilian Computer Society (SBC)
- 2016 – Present: Research group leadership. Ábaco is a group registered on the CNPq (National Council for Scientific and Technological Development) platform. Link: [dgp.cnpq.br/dgp/espelhogrupo/3156193714227418](http://dgp.cnpq.br/dgp/espelhogrupo/3156193714227418).

## Awards and Scholarships

- 2018/09: Best Paper Award/ Brazilian Computer Society (SBC)/ Brazil

The work “XMITs: Software Inspections via Formal Verification” was awarded at the IX Brazilian Conference on Software - Tool Session.

- 2010/09: Scholarship from the Graduate Support Program (PROAP) - Doctoral level/ CAPES/ Brazil

*CAPES is a foundation linked to the Ministry of Education of Brazil that operates in the expansion and consolidation of stricto sensu postgraduate courses in all Brazilian states.*

- 2006/07: Scholarship from the Graduate Support Program (PROAP) - Master’s level/ CAPES/ Brazil

*CAPES is a foundation linked to the Ministry of Education of Brazil that operates in the expansion and consolidation of stricto sensu postgraduate courses in all Brazilian states.*

## Teaching Experience

### Graduate Courses Taught at National Institute for Space Research (INPE)/ Brazil, Collaborating Faculty

- Course title: Modelling of Reactive Systems and its Applications (CAP-398).  
Winter 2019, Winter 2020  
Hours: 45h
  - ✓ Lecture preparation and delivery
  - ✓ Development of material
  - ✓ Preparation of the course projects
  - ✓ Evaluation of enrolled students
- Course title: Model-Based Software Testing (CAP-369).  
Spring 2018  
Hours: 45h
  - ✓ Lecture preparation and delivery
  - ✓ Development of material
  - ✓ Preparation of the course projects
  - ✓ Evaluation of enrolled students

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**Undergraduate Courses Taught at Federal Institute for Education, Science, and Technology of São Paulo (IFSP)/ Brazil, Assistant Professor**

In all the following courses, I have been the main professor, the classes have an average of 30 students

- Course title: Software Testing (TSWI5).  
(1<sup>st</sup> semester 2021, 1<sup>st</sup> semester 2020)  
Hours: 66,67.
- Course title: Software Engineering (ESWI3, ENGA5).  
(1<sup>st</sup> semester 2021, 1<sup>st</sup> semester 2020, 1<sup>st</sup> semester 2019, 1<sup>st</sup> semester 2018, 1<sup>st</sup> semester 2017, 1<sup>st</sup> semester 2016, 1<sup>st</sup> semester 2015)  
Hours: 66,67.
- Course title: Applied Software Engineering (EWA14).  
(2<sup>nd</sup> semester 2020, 2<sup>nd</sup> semester 2019)  
Hours: 66,67.
- Course title: Project (PRO16).  
(2<sup>nd</sup> semester 2020)  
Hours: 66,67.
- Course title: Human-Computer Interaction (IHCI2).  
(2<sup>nd</sup> semester 2020, 2<sup>nd</sup> semester 2019, 2<sup>nd</sup> semester 2018)  
Hours: 33,33.
- Course title: Database I (BDDI3, BD1A3).  
(1<sup>st</sup> semester 2019, 1<sup>st</sup> semester 2017, 1<sup>st</sup> semester 2016)  
Hours: 66,67.
- Course title: Systems Analysis II (AS2A3).  
(1<sup>st</sup> semester 2018)  
Hours: 66,67.
- Course title: Systems Analysis I (AS1A2).  
(2<sup>nd</sup> semester 2017, 2<sup>nd</sup> semester 2015)  
Hours: 66,67.
- Course title: Database II (BD2A4).  
(2<sup>nd</sup> semester 2016)  
Hours: 66,67.

**Undergraduate Courses Taught at São Paulo Faculty of Technology/ Brazil, Temporary Lecturer**

- Course title: Software Engineering I.  
(2<sup>nd</sup> semester 2014, 1<sup>st</sup> semester 2014, 2<sup>nd</sup> semester 2013)  
Hours: 66,67.
- Course title: Human-Computer Interaction.  
(2<sup>nd</sup> semester 2014, 1<sup>st</sup> semester 2014, 2<sup>nd</sup> semester 2013)

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Hours: 33,33.

- Course title: Information Systems.  
(2<sup>nd</sup> semester 2014, 1<sup>st</sup> semester 2014)  
Hours: 66,67.

#### **Undergraduate Courses Taught at Federal University of São Paulo/ Brazil, Teaching Internship**

- Course title: Logic Programming.  
(1<sup>st</sup> semester 2011)  
Hours: 66,67.

#### **Secondary Technical Education Courses Taught at Federal Institute for Education, Science, and Technology of São Paulo (IFSP)/ Brazil, Assistant Professor**

In all the following courses the classes have an average of 40 students

- Course title: Project  
(1<sup>st</sup> and 2<sup>nd</sup> semester 2021 – annual, 1<sup>st</sup> and 2<sup>nd</sup> semester 2020 – annual)  
Hours: 66,67.
- Course title: Application Development with Database  
(1<sup>st</sup> and 2<sup>nd</sup> semester 2019 – annual)  
Hours: 133,34.
- Course title: Informatics.  
(2<sup>nd</sup> semester 2018)  
Hours: 33,33.
- Course title: Basic informatics.  
(2<sup>nd</sup> semester 2018)  
Hours: 66,67.
- Course title: Applied Informatics.  
(2<sup>nd</sup> semester 2018)  
Hours: 33,33.
- Course title: Database Management.  
(2<sup>nd</sup> semester 2016, 2<sup>nd</sup> semester 2015)  
Hours: 66,67.
- Course title: Markup and Style Languages.  
(2<sup>nd</sup> semester 2015)  
Hours: 100.
- Course title: Introduction to Logic Programming.  
(1<sup>st</sup> semester 2015)  
Hours: 100.

#### **Academic Advisory**

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## IN PROGRESS

### Scientific Initiation

- Luiz Henrique dos Santos Silva. (Diploma, Analysis and System Development, on-going). March 2021 – November 2021. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. Investigação e análise de defeitos em Contratos Inteligentes.

#### Works of completion for Undergraduate degree

- Gabriel Matsumura. (Diploma, Analysis and System Development, on-going). September 2020 - November 2021. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "Issues on Smart Contracts in the context of Blockchain".

### Extension Scholarships

- Aline de Oliveira Costa. (Diploma, Analysis and System Development, on-going). March 2020 – November 2021. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "Application Development for Automating the School Food Control Process at the Jacareí City Hall"
- Natalie Fonseca. (Diploma, Analysis and System Development, on-going). May 2020 – November 2021. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Co-Advisor. "IFVest: a platforma to Mathematics studies".
- Luana Caroliny Pedroso de Oliveira. (Diploma, Analysis and System Development, on-going). September 2020 – November 2021. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "A framework to Alumni of Jacareí campus".

## CONCLUDED

### Scientific Initiation

- Miriéle dos Santos Silvério (Diploma, Analysis and System Development, Completed). March 2020 – November 2020. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "Investigation of Timed Events in Formal Specification of Reactive Systems for Automatic Software Test Generation".
- Matheus Intorne Nunes (Diploma, Analysis and System Development, on-going). March 2019 - December 2019. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "Automatic Generation of Test Cases in Java via Statecharts Models".
- Miriéle dos Santos Silvério (Diploma, Analysis and System Development, on-going). August 2018 - July 2019. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "An Information System for Supporting Treatment in Patients with Spinal Dysfunction".
- Matheus Ladislau Ribeiro (Diploma, Analysis and System Development,). March 2018 - December 2018. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "Interpreting the Brazilian Sign Language Using Movements and Facial Expressions through Artificial Neural Networks".
- Camila Pereira Sales (MSc. in Applied Computing at National Institute for Space Research, on-going). August 2017 - July 2018. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "An Approach to Apply Formal Verification to Software Projects Using Computer Support".

- Uriel Cairê Balan Calvi (MSc. in Electronic Engineering and Computing at Aeronautics Institute of Technology, on-going). March 2017 - December 2017. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "BigLIBRAS: Architecture for Storing and Managing Models for Natural Language Sign Processing".
- Cleyton de Castro Mario (Diploma, Analysis and System Development, Completed). March 2017 - December 2017. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "Data Mining Application for Characterizing the Evolution of Patients with Spinal Dysfunction".
- Albino Vieira Freitas (Diploma, Analysis and System Development, on-going). March 2016 - December 2016. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "Transformation of UML Diagrams into a Visual Finite State Model for Software Formal Verification".
- Cleyton de Castro Mario (Diploma, Analysis and System Development, Completed). March 2016 - December 2016. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "Database Investigation Aiming at Understanding the Evolution of Patients with Spinal Dysfunction".

#### **Works of completion for Undergraduate degree**

- Renan Lucas Oliveira (Diploma, Analysis and System Development, Completed). September 2016 - September 2017. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "ADQS - Autocorrect Database Query System: A Tool to Support the Database Course".
- Marco Antônio Monteiro Guimarães (Diploma, Analysis and System Development, Completed). February 2016 - February 2017. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "SAT - A System for Monitoring Academic Works".
- Milene Elizabeth Rigolin Ferreira Lopes Salvador (MSc. in Electronic Engineering and Computing at Aeronautics Institute of Technology, Completed). March 2015 - November 2015. Federal Institute for Education, Science, and Technology of São Paulo (IFSP). Advisor. "DoMAR: An Approach to Prevent Problems Related to Requirements Documentation and Management".
- Eduardo Rohde Eras (Ph.D. in Applied Computing at National Institute for Space Research, on-going). March 2013 - May 2014. São Paulo Faculty of Technology. Advisor. "XMITS: An XML File Reader and Converter to State Transition System".

#### **Institutional responsibilities/ Scholarly and Professional Academic Activities and Service**

- 05/2020 – Present: Member of the Campus Administrative Council. The Campus Council is a normative, advisory, and deliberative board within each campus, and it has the responsibility of approving guidelines and goals for campus performance and of watching over the proper execution of its educational policy.
- 03/2020 – Present: Commission member for the elaboration and implementation of the pedagogical project for the Secondary Technical Informatics Program at Jacareí Campus.
- 11/2019 – Present: Member of WASH Work Group. WASH project is an initiative sponsored by CNPq that promotes teaching robotics and computing to students in municipal basic education.
- 09/2019 – Present: Committee member responsible for creating a local scientific event on campus.
- 08/2018 – Present: Member of the Structural Guidance Center for the Undergraduate Program of Systems Analysis and Development. Main responsibilities of the Center include creation of curriculum, approval of regulations for internship and course completion work, analysis of transfer requests, as well as all decisions related to the Program.

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- School year 2019: Commission member for preparing students for the Brazilian IT Olympics.
- 08/2018 – 10/2018: Organizing Committee member of the National Science and Technology Week in Jacareí Campus.
- 02/2017 – 07/2018: Coordinator of the Undergraduate Program of Systems Analysis and Development. Caraguatatuba Campus.
- 03/2016 – 07/2018: Collegiate member of the Undergraduate Program of Systems Analysis and Development. Caraguatatuba Campus.
- 12/2017: Member of the examining board for Temporary Lecturer in Computing - Notice nº 891, December 1, 2017. Caraguatatuba Campus.
- 02/2016 – 02/2017: Coordinator of the Secondary Technical Program of Web Development. Caraguatatuba Campus.
- 12/2015 – 02/2016: Extension course evaluator. The commission aimed at evaluating the pedagogical projects of the extension courses offered by the Caraguatatuba Campus.
- 11/2014 – 11/2015: Member of the local organizing committee of the event "The 7th International Conference on Management of computational and collective intelligence in Digital EcoSystems" (MEDES'15).
- 10/2014 – 11/2014: Organizing Committee member of the National Science and Technology Week in Caraguatatuba Campus.

## Teaching and Research Interests

- Software Engineering
- Software Verification and Validation
- Assistive Technology
- Machine Learning

## Languages

- Portuguese Native
- Superior Skills in English (written) and upper intermediate (oral)
- Basic Skills in French

## References

- Dr. Nandamudi Lankalapalli Vijaykumar, Laboratory of Computing and Applied Mathematics, National Institute for Space Research (PhD thesis supervisor). E-mail: vijay.nl@inpe.br.
- Dr. Valdivino Alexandre de Santiago Júnior, Laboratory of Computing and Applied Mathematics, National Institute for Space Research (PhD thesis supervisor). E-mail: valdivino.santiago@inpe.br.
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