# Lesandro Ponciano

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**Web Page**: https://lesandrop.github.io/site/
**ORCID**: https://orcid.org/0000-0002-5724-0094

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**Expertise:** Collaborative Systems • HCI • Data Science • e-Science • Citizen Science • Human Computation
**Languages:** Portuguese (native) • English (advanced) • Spanish (basic)

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## Education

**PhD.** in Computer Science (**2012 - 2015**) • Federal University of Campina Grande, Brazil
- Thesis: Human Computation from the Perspective of the Engagement and Credibility of Humans, and the Replication of Tasks
- Advisor: Francisco Brasileiro, PhD. Newcastle University (UK), fubica@dsc.ufcg.edu.br
- Grade Point Average: 10.0/10

**M.Sc**. in Computer Science (**2009 - 2011**) • Federal University of Campina Grande, Brazil
- Thesis: Assessing Energy Saving Strategies in Peer-to-Peer Opportunistic Grids
- Advisor: Francisco Brasileiro, PhD. Newcastle University (UK), fubica@dsc.ufcg.edu.br
- Grade Point Average: 9.0/10

**B.Sc.** in Information Systems (**2005 - 2008**) • Pontifical Catholic University of Minas Gerais, Brazil
- Grade Point Average: 8.9/10

## Work Experiences

**Associate Professor (02/2016 - now)** • Pontifical Catholic University of Minas Gerais, Brazil
- Programs: Information Systems, Software Engineering, Electrical Engineering, Computer Science

**Researcher (02/2016 - 12/2016)** • Laboratory of Distributed Systems, Brazil
- Sponsored by Hewlett-Packard (HP) and supervised by Andrey Brito, andrey@computacao.ufcg.edu.br
- Technical skills: R, Python, Internet of Things (IoT), survey design and validation

**Analytics Tutor (01/2012 - 05/2013)** • Federal University of Campina Grande, Brazil
- Analytics Training Program sponsored by Hewlett-Packard (HP) Brazil
- Supervisor: Nazareno Andrade, nazareno@computacao.ufcg.edu.br
- Technical skills: R, Python, Data Visualization, Statistics

## Selected Awards

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|---|---|---|---|
| 2020,2019, and 2018 | **Honored Professor awards**, conferred by students at their commencement ceremony. | 2011 | **M.Sc. with Distinction**, Federal University of Campina Grande |
| 2019 and 2018 | **Outstanding Teaching Performance**, conferred by Pontifical Catholic University of Minas Gerais | 2011 | **Best Computer Science Master Thesis - Finalist** (one of 10) in Brazil, Brazilian Computer Society |
| 2019 | **Special Recognitions for Outstanding Reviews**, ACM CHI 2019 | 2010 | **Best paper and presentation**, SBRC 2010 |
| 2017 | **Third best paper and presentation**, SBSC 2017 | 2008 | **Second best academic performance in the B.Sc.**, Pontifical Catholic University of Minas Gerais |

# Selected Peer-reviewed Conference and Journal Publications

**Ten selected peer-review works (**starting from the most recent):

[1]   Nelson, M. A; **Ponciano, Lesandro**, "Experiences and insights from using Github Classroom to support Project-Based Courses," 2021 *Third International Workshop on Software Engineering Education for the Next Generation (SEENG)* at ICSE-JSEET. 2021. pp. 31-35. IEEE. DOI: [10.1109/SEENG53126.2021.00013]()

[2]   de Macêdo Morais, L. A.; Andrade, N.; de Sousa, D. M. C.; **Ponciano, Lesandro**. Defamiliarization, representation granularity, and user experience: A qualitative study with two situated visualizations. In *2019 IEEE Pacific Visualization Symposium (PacificVis)*. 2019, pp. 92-101. IEEE. DOI: [10.1109/PacificVis.2019.00019]()

[3]   **Ponciano, Lesandro**; Pereira, Thiago Emmanuel. "Characterising volunteers' task execution patterns across projects on multi-project citizen science platforms." *Proceedings of the 18th Brazilian Symposium on Human Factors in Computing Systems*. 2019. pp. 1-11. ACM,. DOI: [10.1145/3357155.3358441]()

[4]   **Ponciano, Lesandro**; Brasileiro, Francisco. "Agreement-based credibility assessment and task replication in human computation systems." *Future Generation Computer Systems,* 87 (2018): 159-170. DOI: [10.1016/j.future.2018.05.028]()

[5]   **Ponciano, Lesandro**; Barbosa, Pedro; Brasileiro, Francisco; Brito, Andrey; Andrade, Nazareno. "Designing for Pragmatists and Fundamentalists: Privacy Concerns and Attitudes on the Internet of Things." *Proceedings of the XVI Brazilian Symposium on Human Factors in Computing Systems*. 2017. pp. 1-10. ACM. DOI:[10.1145/3160504.3160545]()

[6]   Eitzel, M.V., Cappadonna, J.L., Santos-Lang, C., Duerr, R.E., Virapongse, A., West, S.E., Kyba, C.C.M., Bowser, A., Cooper, C.B., Sforzi, A., Metcalfe, A.N., Harris, E.S., Thiel, M., Haklay, M., **Ponciano, L**., Roche, J., Ceccaroni, L., Shilling, F.M., Dörler, D., Heigl, F., Kiessling, T., Davis, B.Y. and Jiang, Q., 2017. Citizen Science Terminology Matters: Exploring Key Terms. Citizen Science: Theory and Practice, 2(1), p.1. DOI: [10.5334/cstp.96]()

[7]   **Ponciano, Lesandro**; Brasileiro, Francisco; Simpson, Robert; Smith, Arfon. Volunteers' Engagement in Human Computation for Astronomy Projects. *Computing in Science & Engineering*, v. 16, p. 52-59, 2014. DOI: [10.1109/MCSE.2014.4]()

[8]   **Ponciano, Lesandro**; Brasileiro, Francisco. Finding Volunteers' Engagement Profiles in Human Computation for Citizen Science Projects. *Human Computation*, v. 1, n. 1, p. 245-264, 2014. DOI: [10.15346/hc.v1i2.12]()

[9]   **Ponciano, Lesandro**; Brasileiro, Francisco; Andrade, Nazareno; Sampaio, Lívia. Considering Human Aspects on Strategies for Designing and Managing Distributed Human Computation. *Journal of Internet Services and Applications*, v. 5, p. 1-28, 2014. DOI: [10.1186/s13174-014-0010-4]()

[10]  **Ponciano, Lesandro**; Brasileiro, Francisco. Assessing Green Strategies in Peer-to-Peer Opportunistic Grids. *Journal of Grid Computing*, v. 11, p. 129-148, 2013. DOI: [10.1007/s10723-012-9218-3]()

Plus **3** book chapters, **7** full papers written in Portuguese, and **3** workshop papers and **12** short papers. Many texts, videos and interviews on the popularization of science.

## Scientific Activities

- **Program Committee Member** for ACM Group (2021), HCI Collab (2021), IHC (2021, 2020, 2019), and others.
- **Reviewer of** 63 submissions for IEEE Transactions on Human-Machine Systems, IEEE Computing in Science & Engineering, Cloudcom, Human Computation, ACM CHI, ACM Group, IHC, and others.
- **Member of** the Citizen science Association (CSA), The Brazilian Computer Society (SBC), The Brazilian Society for the Advancement of Science (SBPC).

## Selected Event Participation

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| **2021** | Brazilian Symposium on Computer Education |
| **2020** | European Citizen Science Conference |
| **2019** | Brazilian National Science and Technology Week |
| **2018** | Brazilian Symposium on Human Factors in Computing Systems |
| **2017** | Citizen Science Association Conference |
| **2014** | IEEE International Conference on eScience. |
| **2013** | AAAI Conference on Human Computation and Crowdsourcing |
| **2012** | Congress of the Brazilian Computer Society |
| **2010** | IEEE/ACM International Conference on Grid Computing |

## Selected Teaching Activities

Associate Professor at PUC Minas University since 2016 teaching the following courses:

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| **Human-Computer Interaction** | 68 hours over 4 months | Semiannually from 2016 until now. |
| **Introduction to Informatics Research** | 34 hours over 4 months | Semiannually from 2020 until now. |
| **Software Testing** | 68 hours over 4 months | Semiannually from 2020 until now. |
| **Requirements Engineering** | 68 hours over 4 months | Semiannually from 2017 until 2019 |
| **Software Quality** | 68 hours over 4 months | Semiannually from 2017 until 2020 |
| **Operating Systems** | 68 hours over 4 months | Semiannually from 2017 until now. |

Plus sporadic 68 hours courses: **Information Systems Design** (2019), **Distributed Application Development** (2019), **Computer Architecture** (2017), **Computer Programming** (2016), and **Algorithms and Data Structure** (2016).

**Since 2020**, Lesandro Ponciano is certified as a **GitHub Campus Advisor**, which is a program part of the GitHub Education (https://education.github.com/teachers/advisors).

## Selected Online Profiles and Resources

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| **Github** | https://github.com/lesandrop |
| **Google Scholar** | https://scholar.google.com.br/citations?user=KS9I4P0AAAAJ |
| **Semantic Scholar profile** | https://www.semanticscholar.org/author/Lesandro-Ponciano/2034958 |
| **Scopus profile** | https://www.scopus.com/authid/detail.uri?authorId=36975953000 |
| **ORCID** | https://orcid.org/0000-0002-5724-0094 |