

# Lesandro Ponciano

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**Expertise:** Collaborative Systems • HCI • Data Science • e-Science • Citizen Science • Human Computation

**Experience:** Quantitative Research • System Simulation • Data Mining Algorithms • Data Modeling • GQM Method

**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](mailto: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](mailto: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](mailto: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](mailto:nazareno@computacao.ufcg.edu.br)
- Technical skills: R, Python, Data Visualization, Statistics

## Selected Awards

2021, 2020,  
2019, 2018

**Honored Professor awards**, conferred by students at their commencement ceremony.

2019 and  
2018

**Outstanding Teaching Performance**, conferred by Pontifical Catholic University of Minas Gerais

2019

**Special Recognitions for Outstanding Reviews**, ACM CHI 2019

2017

**Third best paper and presentation**, SBSC 2017

**2011 M.Sc. with Distinction**, Federal University of Campina Grande

**2011 Best Computer Science Master Thesis - Finalist** (one of 10) in Brazil, Brazilian Computer Society

**2010 Best paper and presentation** (one of 3), SBRC 2010

**2008 Second best academic performance in the B.Sc.**, Pontifical Catholic University of Minas Gerais

## Selected Peer-reviewed Conference and Journal Publications

**Google Scholar:** total citations 566 • h-index 8 • i10-index 7. (data from August 2021)

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

- [1] Ramos, H.; Fonseca, M.; **Ponciano, Lesandro**. Modeling and Evaluating Personas with Software Explainability Requirements. In *VII Iberoamerican Conference on Human-Computer Interaction*. 2021. Springer. pre-print: <https://arxiv.org/abs/2108.04640>
- [2] Nelson, M. A; **Ponciano, Lesandro**, "Experiences and insights from using Github Classroom to support Project-Based Courses". In *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](https://doi.org/10.1109/SEENG53126.2021.00013)
- [3] 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](https://doi.org/10.1109/PacificVis.2019.00019)
- [4] **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](https://doi.org/10.1145/3357155.3358441)
- [5] **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](https://doi.org/10.1016/j.future.2018.05.028)
- [6] **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](https://doi.org/10.1145/3160504.3160545)
- [7] 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](https://doi.org/10.5334/cstp.96)
- [8] **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](https://doi.org/10.1109/MCSE.2014.4)
- [9] **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](https://doi.org/10.15346/hc.v1i2.12)
- [10] **Ponciano, Lesandro**; Brasileiro, Francisco; Andrade, Nazareno; Sampaio, Livia. "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](https://doi.org/10.1186/s13174-014-0010-4)
- [11] **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](https://doi.org/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

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

## Selected Teaching Activities

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

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

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