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)

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

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** (one of 3), 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, Thiag**o** 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 Computatio*n, 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

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:

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

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