

Lesandro Ponciano

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Web Page: <https://lesandrop.github.io/site/>

ORCID: <https://orcid.org/0000-0002-5724-0094>

Expertise: Collaborative Systems • e-Science • HCI • Citizen Science • Human Computation • Data Science
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, 2018) Professor Honored by Students in the Graduation Ceremony

2019 (+2018) Outstanding Teaching Performance, Pontifical Catholic University of Minas Gerais

2019 ACM CHI 2019 Special Recognitions for Outstanding Reviews

2017 Third best paper and presentation award at 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 award at 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 547 • h-index 8 • i10-index 7

- [1] de Macêdo Morais, L. A., Andrade, N., de Sousa, D. M. C., & **Ponciano, Lesandro**. (2019). Defamiliarization, representation granularity, and user experience: A qualitative study with two situated visualizations. In 2019 IEEE Pacific Visualization Symposium (PacificVis) (pp. 92-101). IEEE. DOI: <https://doi.org/10.1109/PacificVis.2019.00019>
- [2] **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. DOI:<https://doi.org/10.1145/3357155.3358441>
- [3] **Ponciano, Lesandro**; Brasileiro, Francisco. "Agreement-based credibility assessment and task replication in human computation systems." *Future Generation Computer Systems* 87 (2018): 159-170. DOI:<https://doi.org/10.1016/j.future.2018.05.028>
- [4] **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. DOI:<https://doi.org/10.1145/3160504.3160545>
- [5] 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: <http://doi.org/10.5334/cstp.96>
- [6] **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: <https://doi.org/10.1109/MCSE.2014.4>
- [7] **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:<https://doi.org/10.15346/hc.v1i2.12>
- [8] **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:<https://doi.org/10.1186/s13174-014-0010-4>
- [9] **Ponciano, Lesandro**; Brasileiro, Francisco. Assessing Green Strategies in Peer-to-Peer Opportunistic Grids. *Journal of Grid Computing*, v. 11, p. 129-148, 2013. DOI:<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 (2019, 2020, 2021).
- **Reviewer of** 63 submissions (ACM CHI, IHC, Cloudcom, Human Computation 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 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

Assistant 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 courses: Information Systems Design, Distributed Application Development, Computer Architecture, Computer Programming, Algorithms and Data Structure,.

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 |