

Lesandro Ponciano

Professor and researcher in the areas of Human-Computer Interaction, Collaborative Systems, e-Science, and Citizen Science

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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

Experiences

Associate Professor (February 2016 - current, > 5 years)

Pontifical Catholic University of Minas Gerais - Belo Horizonte, Minas Gerais, Brazil

- Programs: Information Systems, Software Engineering, Electrical Engineering, Computer Science
- Courses: Human-Computer Interaction, Software Testing, Software Quality, Requirements Engineering

Researcher (January 2016 - December 2016, 12 months)

Laboratory of Distributed Systems - Campina Grande, Paraíba, Brazil

- Sponsored by Hewlett-Packard (HP)
- Supervisor: Andrey Brito, andrey@computacao.ufcg.edu.br
- Technical skills: R, Python, Internet of Things (IoT), survey design and validation

Analytics Tutor (January 2012 - May 2013, 17 months)

Federal University of Campina Grande - Campina Grande, Paraíba, 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

Assistant Researcher (March 2011 - February 2012, 12 months)

Laboratory of Distributed Systems - Campina Grande, Paraíba, Brazil

- Sponsored by National Counsel of Technological and Scientific Development (CNPq)
- Supervisor: Francisco Brasileiro, fubica@dsc.ufcg.edu.br
- Technical skills: e-Science, Peer-to-Peer Systems, Grid Computing

Achievements

Academic Achievement Awards

- Award of MSc. with Distinction (2011) granted by the Federal University of Campina Grande (UFCG).
- Award of second best overall academic performance in the B.Sc. (2008) granted by the Pontifical Catholic University of Minas Gerais (PUC Minas).

Research Achievement Awards

- Best Master Thesis - Finalist (one of 10) in Brazil (2011) granted by the Brazilian Computer Society at the XXV Thesis Competition.
- Best paper and presentation award granted by the XXVIII Brazilian Symposium on Computer Networks and Distributed Systems (SBRC 2010)
- Honorable Mention in the undergraduate research contest (2007) at the joint conferences XIX Symposium on Computer Architecture and High Performance Computing (SBAC-PAD 2010) and VIII WSCAD-SSC

Selected Influential Journal Publications

Ponciano, Leandro; 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>

Ponciano, Leandro; 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>

Ponciano, Leandro; 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>

Ponciano, Leandro; 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: <https://doi.org/10.1186/s13174-014-0010-4>

Ponciano, Leandro; 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>

Selected Influential Conference Publications

Ponciano, Leandro; 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>

Ponciano, Leandro; 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>

Ponciano, Leandro, and Francisco Brasileiro. "On the impact of energy-saving strategies in opportunistic grids." *2010 11th IEEE/ACM International Conference on Grid Computing*. IEEE, 2010.
DOI: <https://doi.org/10.1109/GRID.2010.5698003>