

# Renan Souza

✉ [contact@renansouza.org](mailto:contact@renansouza.org) • 🌐 [RenanSouza.org](https://RenanSouza.org) • in [renansouza1](https://renansouza1)

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## Bio

Renan Francisco Santos Souza holds a Ph.D. (2019) and an M.Sc. (2015) in Computer Science from [COPPE/Federal University of Rio de Janeiro \(UFRJ\)](#), and a [B.Sc. in Computer Science](#) from UFRJ (2009-2013). Since 2015, he works at [IBM Research Brazil](#), where he is a Research Scientist in the [Industrial Cloud Technologies](#) group. He has been working both as a software engineer and a researcher in several projects since 2010 and has been actively publishing scientific papers in refereed international conferences and journals since 2014. During his B.Sc., he spent a school year at the computer science department at [Missouri State University](#) and did a summer internship at [Stanford University](#) in the [SLAC](#) National Laboratory. During his Ph.D., he was a visiting researcher with the [Scientific Data Management](#) team at [Inria/Univ. Montpellier](#) in France in 2019. In 2017, he won the best M.Sc. thesis award from SBBD, the main conference on data management in Latin America. He researches large-scale data science and engineering techniques for the support of Artificial Intelligence systems.

## Experience

◦ IBM Research, Research Scientist	Aug 2019 – present
◦ IBM Research, Research Engineer	Sep 2015 – Aug 2019
◦ IBM Research, Software Engineer Intern	Apr 2015 – Sep 2015
◦ Stanford University, SLAC, Research Collaborator	Aug 2013 – Dec 2014
◦ Stanford University, SLAC, Research Intern	May 2013 – Aug 2013
◦ CAPGov COPPE/UFRJ, Software Eng. Lead	Dec 2013 – Sep 2014
◦ CAPGov COPPE/UFRJ, Software Eng.	Sep 2013 – Jan 2014
◦ CAPGov COPPE/UFRJ, Software Eng. Intern	Jan 2011 – Jun 2012
◦ Federal Univ. of Rio de Janeiro, Software Eng. Intern	Jan 2010 – Jul 2011
◦ Petrobras, IT Intern	May 2007 – May 2008

## Selected Publications

For complete list, visit: [RenanSouza.org/publications](https://RenanSouza.org/publications)

- [1] **R. Souza**, L. G. Azevedo, V. Lourenço, E. Soares, R. Thiago, R. Brandão, D. Civitarese, E. V. Brazil, M. Moreno, P. Valduriez, M. Mattoso, R. Cerqueira, M. A. S. Netto, "Workflow provenance in the lifecycle of scientific machine learning," *arXiv preprint Databases (cs.DB)*, pp. 1–21, 2020. [Online]. Available: <https://arxiv.org/abs/2010.00330>.
- [2] **R. Souza**, L. Azevedo, R. Thiago, E. Soares, M. Nery, M. Netto, E. V. Brazil, R. Cerqueira, P. Valduriez, M. Mattoso, "Efficient runtime capture of multiworkflow data using provenance," in *IEEE International Conference on e-Science (eScience)*, 2019, pp. 1–10. DOI: [10.1109/eScience.2019.00047](https://doi.org/10.1109/eScience.2019.00047).
- [3] **R. Souza**, V. Silva, J. J. Camata, A. L. G. A. Coutinho, P. Valduriez, M. Mattoso, "Keeping track of user steering actions in dynamic workflows," *Future Generation Computer Systems*, vol. 99, pp. 624–643, 2019, ISSN: 0167-739X. DOI: [10.1016/j.future.2019.05.011](https://doi.org/10.1016/j.future.2019.05.011).
- [4] **R. Souza**, V. Silva, A. L. G. A. Coutinho, P. Valduriez, M. Mattoso, "Data reduction in scientific workflows using provenance monitoring and user steering," *Future Generation Computer Systems*, vol. online, pp. 1–34, 2017, ISSN: 0167-739X. DOI: [10.1016/j.future.2017.11.028](https://doi.org/10.1016/j.future.2017.11.028).