

José E. Moreira

Distinguished Research Staff Member
IBM Research



Recent Awards and Honors

- Fellow. Institute of Electrical and Electronic Engineers (IEEE). 2020. For advances in high performance computing systems software and processor design.
- Distinguished Scientist. Association for Computing Machinery (ACM). 2009. For advances in computing technology.
- SC20 Test of Time Award. "An Overview of the BlueGene/L Supercomputer" 2020. (published at SC2002).
- IBM Outstanding Innovation Award. "Research Contributions to the AI-infused POWER10 Processor: microarchitecture, energy efficiency and design/verification tools." 2022.
- IBM Outstanding Technical Achievement Award. "Contributions to Power8 Processor and Memory I/O Design." 2015

Involvement in CRA Activities

- I served in the Career Engagement Working Group (2023)

Other Relevant Experience

- RISC-V Vector Special Interest Group Chair (2023-)
- IBM Power System Architecture research and development (2008-)
- Blue Gene/L System Software architecture (2001-2005)
- Adjunct Faculty, Columbia University (2023-)
- GraphBLAS standards committee (2014-)

Research Interests

- Parallel computer architecture
- Parallel programming
- Numerical linear algebra
- Sparse matrix computations

Personal Statement

I have been an active member of the computing research community. While most of my research work can be described as "industrial", since it is performed for IBM, I have also been active with the academic community, organizing various conferences and workshops. I have led major industrial research projects, including system software for Blue Gene/L and matrix and vector processing for IBM's Power Systems. I have worked on standards for graph processing with linear algebra (GraphBLAS) for approximately 10 years. I am a co-author in highly cited journal and conference publications, including an SC "Test of Time" paper.