

Education

Ph. D. in Science	PhD in Math and Computing Sciences at the Tokyo Institute of Technology, Tokyo, Japan. (Sep. 2012)
Master in Science	Master in Distributed Systems at the Universite Pierre et Marie Curie, Paris, France. (Sep. 2009)
Bachelor in Science	Bachelor in Computer Sciences at the Universite Pierre et Marie Curie, Paris, France. (Jun. 2006)
High School Diploma	Bachillerato at the French-Nicaraguan School Victor Hugo, Managua, Nicaragua. (Nov. 2001)
Secondary School	Elementary and Secondary at the Swiss School Refous, Bogota, Colombia. (Nov. 2000)

Work Appointments

Founder and Leader	I created the research group MigaLabs that specializes in blockchain research. I lead the research on the distributed systems aspects of the technology, producing open-source software to monitor the P2P network and index on-chain data, among others. I have received multiple grants from the Ethereum Foundation, Lido, Obol and collaborate with multiple academic institutions such as Cambridge University, among others. (May 2023 - Ongoing)
Senior Researcher	Part time Senior Researcher at the Codex team working on decentralized storage networks (DSN). I am also leading together with my research colleague a research project awarded by the Ethereum Foundation, to develop the next generation data availability sampling protocol for the Ethereum Ecosystem. (May 2022 - August 2025)
Research Group Leader	Research group leader at Barcelona Supercomputing Center, Barcelona, Spain. Leading research on memory reliability for low-power devices and hierarchical memories. Interest on error injection analysis and approximate computing. Continuous integration and maintenance of the multilevel checkpoint library FTI. (Mar. 2016 - Apr. 2022)
Postdoctoral Researcher	Postdoctoral Researcher at Argonne National Laboratory, Lemont, IL, USA. Research in resilience covering silent data corruption detection through the use of machine learning. Integration of SDC detectors into a resilience library. Improvement and maintenance of FTI as a research and production tool. (Apr. 2013 - Feb. 2016)
Postdoctoral Appointee	Postdoctoral Appointee at Tokyo Institute of Technology, Tokyo, Japan. Development and evaluation of a library integrating fast multilevel checkpointing and failure prediction with proactive checkpointing. Partial parallelization study of an application simulating the Fukushima power plant accident. (Oct. 2012 - Mar. 2013)

Awards and Fellowships

TCSC Early Career	2016 IEEE Technical Committee on Scalable Computing (TCSC) Award for Excellence in Scalable Computing for Early Career Researchers. (December 2016)
Marie Curie Fellowship	Marie Sklodowska-Curie Actions Fellowship granted by the European Commission for the two-years project "DURO : Deep-memory Ubiquity, Reliability and Optimization". (February 2016)
George Michael Fellow	ACM/IEEE George Michael Memorial High Performance Computing Ph.D. Fellow at Supercomputing Conference 2011 (SC11), Honorable Mention. (November 2011)
SC11 Perfect Score	Special Certificate of Recognition for achieving a perfect score at the Supercomputing Conference 2011, "FTI : High Performance Fault Tolerance Interface for Hybrid Systems". (November 2011)
JSPS PhD Fellowship	Japanese Society for the Promotion of Science (JSPS), Research Fellowships for Young Scientists (Doctoral Course), from April 2010 until March 2012 (About JPY 3'100,000/year). (April 2010)
First National Debate	First Place Winner in the 1st National High School Speech and Debate Tournament in Managua, Nicaragua. (May 2001)

Languages

Spanish	Native (Teaching Experience - C2)
French	Fluent (DELF, DALF, DEUG - C1)
English	Fluent (IELTS 8.0 - C1)
Japanese	Beginner (JLPT N5, JLPT N4 - A2)
Portuguese	Beginner (CIPLE - A2)

Other Skills

Triathlon Finisher	Olympic Triathlon (Chicago 2013, 2014, 2015, Barcelona 2016, 2017, 2018, 2019, 2024) Sprint Triathlon (Barcelona 2021, Bordeaux 2025).
IronMan 70.3 Finisher	IronMan 70.3 (Barcelona 2022, 2023, 2025).
Boat Skipper	Licensed Recreational Boat Skipper in Spain (PER).

Private Pilot	Licensed Private Pilot (About 50 flight hours, 10 solo).
Open Water Diver	Licensed (PADI) Open Water Diver (OWD).
Emergency Response	Certified Emergency First Responder.

Peer-Reviewed Journal Papers

Cluster Computing	The impact of connectivity and software in Ethereum validator performance - Cortes-Goicoechea, M., Mohandas-Daryanani, T., Muñoz-Tapia, J.L. and Bautista-Gomez, L., Springer Nature Cluster Computing Journal.
IEEE Access	Can we run Ethereum nodes at home? - Cortes-Goicoechea, M., Mohandas-Daryanani, T., Muñoz-Tapia, J.L. and Bautista-Gomez, L., IEEE Access Journal
IJHPCA'21	Resiliency in Numerical Algorithm Design for Extreme Scale Simulations - Agullo, E., Altenbernd, M., Anzt, H., Bautista-Gomez, L., Benacchio, T., Bonaventura, L., Bungartz, H.J., Chatterjee, S., Ciorba, F.M., DeBardleben, N. and Drzisga, D., International Journal of High Performance Computing Applications (IJHPCA)
FUTGEN'20	Extending the OpenCHK Model with advanced checkpoint features - Marcos Maroñas, Sergi Mateo, Kai Keller, Leonardo Bautista-Gomez, Eduard Ayguadé, Vicenç Beltran, Journal on Future Generation Computer Systems (FUTGEN)
Book - Chapter 4	Chapter 4 : The Mont-Blanc Prototype - Filippo Mantovani, Daniel Ruiz, Leonardo Bautista, Vishal Metha, Fabio Banchelli, Nikola Rajovic, Eduard Ayguade, Jesus Labarta, Mateo Valero, Alejandro Rico Carro, Alex Ramirez Bellido, Markus Geimer, Daniele Tafani, Contemporary High Performance Computing, From Petascale toward Exascale (Book chapter)
PARCO'19	Checkpoint/Restart Approaches for a Thread-Based MPI Runtime - Julien Adam, Maxime Kermarquer, Jean-Baptiste Besnard, Leonardo Bautista-Gomez, Marc Pérache, Patrick Carribault, Julien Jaeger, Allen D Malony, Sameer Shende, Journal on Parallel Computing, Systems and Applications (PARCO)
SUSCOM'18	Exploring The Capabilities of Support Vector Machines in Detecting Silent Data Corruptions - Omer Subasi, Sheng Di, Leonardo Bautista-Gomez, Prasanna Balaprakash, Osman Unsal, Jesus Labarta, Adrian Cristal, Sriram Krishnamoorthy, Franck Cappello, Journal on Sustainable Computing, Informatics and Systems (SUSCOM)
TPDS'17	Toward General Software Level Silent Data Corruption Detection for Parallel Applications - Eduardo Berrocal, Leonardo Bautista-Gomez, Sheng Di, Zhiling Lan, Franck Cappello, IEEE Transactions on Parallel and Distributed Systems (TPDS)

International Peer-Reviewed Conference Papers

- B2C'25** Autonomous Verifiable Services Evaluation Framework - Jacobo Uribe Arango and Leonardo Bautista-Gomez, In the Blockchain and Cryptocurrency Conference (B2C'25), Innsbruck, Austria.
- B2C'25** Comparative Analysis of Mechanisms Behind Decentralised Storage Networks - Mehjabeen Shachi and Leonardo Bautista-Gomez, In the Blockchain and Cryptocurrency Conference (B2C'25), Innsbruck, Austria.
- BCCA'25** Enhanced Efficient Fast Data Availability Sampling under Majority Dishonest Byzantine Attacks - Arunima Chaudhuri, Csaba Kiraly, Leonardo Bautista-Gomez, In 2025 7th International Conference on Blockchain Computing and Applications (BCCA'25), Dubrovnik, Croatia.
- BCCA'25** Blockprint Accuracy Study - Santiago Somoza, Tarun Mohandas-Daryanani, Leonardo Bautista-Gomez, In 2025 7th International Conference on Blockchain Computing and Applications (BCCA'25), Dubrovnik, Croatia.
- ICBC'23** Autopsy of Ethereum's Post-Merge Reward System - Cortes-Goicoechea, M., Mohandas-Daryanani, T., Muñoz-Tapia, J.L. and Bautista-Gomez, L., In 2023 International Conference on Blockchain and Cryptocurrency (ICBC'23), Dubai, UAE.
- BCCA'23** Unveiling Ethereum's Hidden Centralization Incentives: Does Connectivity Impact Performance? - Cortes-Goicoechea, M., Mohandas-Daryanani, T., Muñoz-Tapia, J.L. and Bautista-Gomez, L., In the fifth International Conference on Blockchain Computing and Applications (BCCA'23), Kuwait, Kuwait.
- HiPC'21** Towards Zero-Waste Recovery and Zero-Overhead Checkpointing in Ensemble Data Assimilation - Kai Keller and Leonardo Bautista-Gomez, IEEE 28th International Conference on High Performance Computing, Data, and Analytics 2021 (HiPC'21), Bangalore, India.
- BCCA'21** Discovering the Ethereum2 P2P Network - Mikel Cortes-Goicoechea, Leonardo Bautista-Gomez, The 3rd IEEE International Conference on Blockchain Computing and Applications 2021 (BCCA'21), Tartu, Estonia.
- BRAINS'21** Resource Analysis of Ethereum 2.0 Clients - Mikel Cortes-Goicoechea, Luca Franceschini, Leonardo Bautista-Gomez, The 3rd IEEE Conference on Blockchain Research and Applications for Innovative Networks and Services 2021 (BRAINS'21), Paris, France.
- IOLTS'21** FPGA Checkpointing for Scientific Computing - Marc Perello Bacardit, Leonardo Bautista-Gomez and Osman Unsal, The 27th IEEE International Symposium on On-Line Testing and Robust System Design 2021 (IOLTS'21), Naples, Italy.
- HPDC'21** An Oracle for Guiding Large-Scale Model/Hybrid Parallel Training of Convolutional Neural Networks - Albert Njoroge Kahira, Truong Thao Nguyen, Leonardo Bautista-Gomez, Ryousei Takano, Rosa M Badia, Mohamed Wahib, ACM Symposium on High-Performance Parallel and Distributed Computing 2021 (HPDC'21), Stockholm, Sweden.
- CCGrid'21** Co-Designing Multi-Level Checkpoint Restart for MPI Applications - Konstantinos Parasyris, Giorgis Georgakoudis, Leonardo Bautista-Gomez and Igansio Laguna, International Symposium on Cluster Cloud and Grid Computing 2021 (CCGrid'21), Melbourne, Australia.

- HPCS'20** A Study of Checkpointing in Large Scale Training of Deep Neural Networks - Elvis Rojas, Albert N. Kahira, Esteban Meneses, Leonardo Bautista-Gomez and Rosa M Badia, The International Conference on High Performance Computing and Simulation 2020 (HPCS'20), Barcelona, Spain.
- HiPC'20** Design and Study of Elastic Recovery in HPC Applications - Kai Keller, Konstantinos Parasyris and Leonardo Bautista-Gomez, IEEE 27th International Conference on High Performance Computing, Data, and Analytics 2020 (HiPC'20), Pune, India.
- CCGrid'20** Checkpoint Restart Support for Heterogeneous HPC Applications - Konstantinos Parasyris, Kai Keller and Leonardo Bautista-Gomez, International Symposium on Cluster Cloud and Grid Computing 2020 (CCGrid'20), Melbourne, Australia.
- EuroPar'19** Checkpointing Kernel Executions of MPI+ CUDA Applications - Max Baird, Sven-Bodo Scholz, Artjoms Sinkarovs and Leonardo Bautista-Gomez, European Conference on Parallel Processing 2019 (EuroPar'19), Gottingen, Germany.
- CCGrid'19** Application-Level Differential Checkpointing for HPC Applications with Dynamic Datasets - Kai Keller and Leonardo Bautista-Gomez, International Symposium on Cluster Cloud and Grid Computing 2019 (CCGrid'19), Larnica, Cyprus.
- ICPADS'17** Portable Topology-Aware MPI-I/O - Rob Latham, Leonardo Bautista-Gomez, Pavan Balaji, IEEE 23rd International Conference on Parallel and Distributed Systems 2017 (ICPADS'17), Shenzhen, China.
- SC'16** Unprotected Computing : A Large-Scale Study of DRAM Raw Error Rate on a Supercomputer - Leonardo Bautista-Gomez, Ferad Zyulkyarov, Simon McIntosh-Smith, Osman Unsal, International Conference for High Performance Computing, Networking, Storage, and Analysis 2016 (SC'16), Salt Lake City, UT, USA. (Acceptance rate is 18.3%)
- IGSC'16** Monitoring strategies for scalable dynamic checkpointing - Swann Perarnau, Leonardo Bautista-Gomez, Seventh International Green and Sustainable Computing Conference 2016 (IGSC'16), Hangzhou, China.
- Cluster'16** Adaptive performance-constrained in situ visualization of atmospheric simulations - Matthieu Dorier, Robert Sisneros, Leonardo Bautista Gomez, Tom Peterka, Leigh Orf, Lokman Rahmani, Gabriel Antoniu, Luc Bougé, IEEE International Conference on Cluster Computing 2016 (Cluster'16), Taipei, Taiwan.
- EuroPar'16** Exploring partial replication to improve lightweight silent data corruption detection for HPC applications - Eduardo Berrocal, Leonardo Bautista-Gomez, Sheng Di, Zhiling Lan, Franck Cappello, European Conference on Parallel Processing 2016 (EuroPar16), Grenoble FRANCE.
- IPDPS'16** Reducing Waste in Extreme Scale Systems through Introspective Analysis - Leonardo Bautista-Gomez, Ana Gainaru, Swann Perarnau, Devesh Tiwari, Saurabh Gupta, Christian Engelmann, Franck Cappello and Marc Snir,, 30th IEEE International Parallel and Distributed Processing Symposium 2016 (IPDPS'16), Chicago, IL, USA.
- CCGrid'16** Spatial Support Vector Regression to Detect Silent Errors in the Exascale Era - Omer Subasi, Sheng Di, Leonardo Bautista-Gomez, Prasanna Balaprakash, Osman Unsal, Jesus Labarta, Adrian Cristal, Franck Cappello, International Symposium on Cluster Cloud and Grid Computing 2016 (CCGrid'16), Cartagena, Colombia.

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- HiPC'15** Which Verification for Soft Error Detection? - Leonardo Bautista-Gomez, Anne Benoit, Aurelien Cavelan, Saurabh K. Raina, Yves Robert and Hongyang Sun, 22nd IEEE International Conference on High Performance Computing 2015 (HiPC'15), Bangalore, INDIA. (Acceptance rate 23%)
- EuroMPI'15** Detecting Silent Data Corruption for Extreme-Scale MPI Applications - Leonardo Bautista-Gomez, Franck Cappello, 22nd European MPI Users' Group Meeting, 2015 (EuroMPI'15), Bordeaux, FRANCE.
- Cluster'15** Detecting and correcting data corruption in stencil applications through multivariate interpolation - Leonardo Arturo Bautista Gomez, Franck Cappello, IEEE International Conference on Cluster Computing 2015 (Cluster'15)
- HPCC'15** Exploiting Spatial Smoothness in HPC Applications to Detect Silent Data Corruption - Leonardo Bautista-Gomez, Franck Cappello, International Conference on High Performance Computing and Communications 2015 (HPCC'15), New York, NY, USA.
- HPDC'15** Lightweight silent data corruption detection based on runtime data analysis for HPC applications - Eduardo Berrocal, Leonardo Bautista-Gomez, Sheng Di, Zhiling Lan, Franck Cappello, Proceedings of the 24th International Symposium on High-Performance Parallel and Distributed Computing 2015 (HPDC'15).
- SC'14** Optimization of Multi-level Checkpoint Model with Uncertain Execution Scales - Sheng Di, Leonardo Bautista-Gomez, Franck Cappello, International Conference for High Performance Computing, Networking, Storage, and Analysis 2014 (SC'14), New Orleans, LU, USA. (Acceptance rate 20.8%)
- IPDPS'14** Optimization of Multi-level Checkpoint Model for Large Scale HPC Applications - Sheng Di, Mohamed Slim Bouguerra, Leonardo Bautista-Gomez, Franck Cappello, 28th IEEE International Parallel and Distributed Processing Symposium 2014 (IPDPS'14), Phoenix, AZ, USA. (Acceptance rate 21.1%)
- SNA-MC'13** SAMPSON Parallel Computation for Sensitivity Analysis of TEPCO's Fukushima Daiichi Nuclear Power Plant Accident - Marco Pellegrini, Leonardo Bautista-Gomez, Naoya Maruyama, Masanori Naitoh, Satoshi Matsuoka, Franck Cappello, Joint International Conference on Supercomputing in Nuclear Applications and Monte Carlo 2013 (SNA-MC'13), Paris, France.
- IPDPS'13** Improving the computing efficiency of HPC systems using a combination of proactive and preventive checkpointing - Mohamed Slim Bouguerra, Ana Gainaru, Leonardo Bautista-Gomez, Franck Cappello, Naoya Maruyama, Satoshi Matsuoka, IEEE International Parallel and Distributed Processing Symposium 2013 (IPDPS'13), Boston, MA, USA. (Acceptance rate 21.0%)
- Cluster'12** Hierarchical Clustering Strategies for Fault Tolerance in Large Scale HPC Systems - Leonardo Bautista-Gomez, Thomas Ropars, Naoya Maruyama, Franck Cappello, Satoshi Matsuoka, IEEE International Conference on Cluster Computing 2012 (Cluster'12), Beijing, China.
- EuroPar'12** Scalable Reed-Solomon-based Reliable Local Storage for HPC Applications in IaaS Clouds - Leonardo Bautista-Gomez, Bogdan Nicolae, Naoya Maruyama, Franck Cappello, Satoshi Matsuoka, International European Conference on Parallel and Distributed Computing 2012 (EuroPar'12), Rhodes Island, Greece. (Acceptance rate 32.8%)

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- SC'11** FTI: high performance Fault Tolerance Interface for hybrid systems - Leonardo Bautista-Gomez, Naoya Maruyama, Dimitri Komatitsch, Seiji Tsuboi, Franck Cappello, Satoshi Matsuoka, Takeshi Nakamura, International Conference for High Performance Computing, Networking, Storage, and Analysis 2011 (SC'11), Seattle, WA, USA. (Acceptance rate 21.0%)
- HiPC'10** Low-overhead Diskless Checkpoint for Hybrid Computing Systems - Leonardo Bautista-Gomez, Naoya Maruyama, Akira Nukada, Franck Cappello, Satoshi Matsuoka, International Conference on High Performance Computing 2010 (HiPC'10), Goa India. (Acceptance rate 19.2%)
- CCGrid'10** Distributed Diskless Checkpoint for Large Scale Systems - Leonardo Bautista-Gomez, Naoya Maruyama, Franck Cappello, Satoshi Matsuoka, International Symposium on Cluster Cloud and Grid Computing 2010 (CCGrid'10), Melbourne Australia. (Acceptance rate 23.2%)
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Short Papers, Workshops and Posters

- BRAINS'24** Blockprint Accuracy Study (Poster) - Santiago Somoza, Tarun Mohandas-Daryanani, Leonardo Bautista-Gomez, 6th Conference on Blockchain Research and Applications for Innovative Networks and Services, 2024
- HiPC'21** Accelerating checkpoint/restart with lossy methods (Poster at Student Research Symposium) - Kevser Ildes, Athanasios Kastoras, Kai Keller, Leonardo Bautista-Gomez, 2021 IEEE 28th International Conference on High Performance Computing, Data, and Analytics (HiPC'21), Bangalore, India.
- FTXS'21** Accelerating checkpoint/restart with lossy methods (Extended Abstract) - Kevser Ildes, Athanasios Kastoras, Kai Keller, Leonardo Bautista-Gomez, 2021 IEEE/ACM 11th Workshop on Fault Tolerance for HPC at eXtreme Scale (FTXS'21), St. Louis, USA.
- BRAINS'21** Discovering the Ethereum2 P2P Network (Poster) - Mikel Cortes-Goicoechea, Leonardo Bautista-Gomez, The 3rd IEEE Conference on Blockchain Research and Applications for Innovative Networks and Services (BRAINS'21), Paris, France.
- DATE'20** LEGaTO: Low-Energy, Secure, and Resilient Toolset for Heterogeneous Computing (Workshop Paper) - Behzad Salami, Konstantinos Parasyris, Adrian Cristal, Osman Unsal, Xavier Martorell, Paul Carpenter, Raul De La Cruz, Leonardo Bautista, Daniel Jimenez, Carlos Alvarez, Saber Nabavi, Sergi Madonar, Miquel Pericàs, Pedro Trancoso, Mustafa Abduljabbar, Jing Chen, Pirah Noor Soomro, Madhavan Manivannan, Micha von dem Berge, Stefan Krupop, Frank Klawonn, Amani Mihklafi, Sigrun May, Tobias Becker, Georgi Gaydadjiev, Hans Salomonsson, Devdatt Dubhashi, Oron Port, Yoav Etsion, Le Quoc Do, Christof Fetzer, Martin Kaiser, Nils Kucza, Jens Hagemeyer, René Griessl, Lennart Tigges, Kevin Mika, Arne Hüffmeier, Marcelo Pasin, Valerio Schiavoni, Isabelly Rocha, Christia, Design, Automation and Test in Europe Conference 2020, European Projects Track (DATE'20), Grenoble, France.

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- PDML'19** Accelerating Hyperparameter Optimisation with PyCOMPSs (Workshop Paper) - Albert Njoroge Kahira, Leonardo Bautista Gomez, Javier Conejero, and Rosa M. Badia, 1st Workshop on Parallel and Distributed Machine Learning 2019 (PDML'19), Kyoto, Japan.
- FTXS'18** Towards Ad Hoc Recovery For Soft Errors (Workshop Paper) - Nuria Losada, Leonardo Bautista-Gomez, Kai Keller, Osman Unsal, 2018 IEEE/ACM 8th Workshop on Fault Tolerance for HPC at eXtreme Scale (FTXS'18), Dallas, USA.
- PMBS'18** Approximating a Multi-Grid Solver (Workshop Paper) - Valentin Le Fevre, Leonardo Bautista-Gomez, Osman Unsal, Marc Casas, 2018 IEEE/ACM Performance Modeling, Benchmarking and Simulation of High Performance Computer Systems (PMBS'18), Dallas, USA.
- MCHPC'18** On the Applicability of PEBS based Online Memory Access Tracking for Heterogeneous Memory Management at Scale - Aleix Roca Nonell, Balazs Gerofi, Leonardo Bautista-Gomez, Dominique Martinet, Vicenç Beltran Querol, Yutaka Ishikawa, Proceedings of the Workshop on Memory Centric High Performance Computing, (MCHPC'18), Dallas, USA.
- WOPSSS'18** Performance study of non-volatile memories on a high-end supercomputer (Workshop Paper) - Leonardo Bautista-Gomez, Kai Keller, Osman Unsal, Workshop on Performance and Scalability of Storage Systems 2018 (WOPSSS'18), Frankfurt, Germany.
- ATCET'18** Training Deep Neural Networks with Low Precision Input Data: A Hurricane Prediction Case Study (Workshop Paper) - Albert Kahira, Leonardo Bautista-Gomez, Rosa M. Badia, Workshop on Approximate and Transprecision Computing on Emerging Technologies 2018 (ATCET'18), Frankfurt, Germany.
- SC'16** Software-Level Fault Tolerant Framework for Task-Based Applications (Poster) - Joy Yeh, Grzegorz Pawelczak, James Sewart, James Price, Ferad Zyulkyarov, Leonardo Bautista-Gomez, Osman Unsal, Simon McIntosh-Smith, International Conference for High Performance Computing, Networking, Storage, and Analysis 2016 (SC'16), Salt Lake City, UT, USA.
- FTS'15** Detecting and Correcting Data Corruption in Stencil Applications through Multivariate Interpolation (Workshop Paper) - Leonardo Bautista-Gomez, Franck Cappello, International Workshop on Fault Tolerant Systems (FTS'15), Chicago, IL, USA.
- HPDC'15** Lightweight Silent Data Corruption Detection Based on Runtime Data Analysis for HPC Applications (Short Paper) - Eduardo Berrocal, Leonardo Bautista-Gomez, Sheng Di, Zhiling Lan, Franck Cappello, International Symposium on High-Performance Parallel and Distributed Computing (HPDC'15), Portland, OR, USA. (Acceptance rate 27%)
- SC'14** Towards Effective Detection of Silent Data Errors for HPC Applications (Poster) - Sheng Di, Eduardo Berrocal, Katherine Heisey, Leonardo Bautista-Gomez, Rinku Gupta, Franck Cappello, International Conference for High Performance Computing, Networking, Storage, and Analysis 2014 (SC'14), New Orleans, LU, USA. (Acceptance rate 39%)

- PMBS'14** Analysis of the Tradeoffs between Energy and Run Time for Multilevel Checkpointing (Workshop Paper) - Prasanna Balaprakash, Leonardo A. Bautista Gomez, Mohamed-Slim Bouguerra, Stefan M. Wild, Franck Cappello and Paul D. Hovland, International Workshop on Performance Modeling, Benchmarking and Simulation of High Performance Computer Systems 2014 (PMBS'14), New Orleans, LA, USA. (Acceptance rate 28%)
- Cluster'14** Energy-Performance Tradeoffs in Multilevel Checkpoint Strategies (Poster) - Leonardo A. Bautista Gomez, Prasanna Balaprakash, Mohamed-Slim Bouguerra, Stefan M. Wild, Franck Cappello and Paul D. Hovland, IEEE Cluster conference 2014 (Cluster'14), Madrid, SPAIN.
- DATE'14** GPGPUs: How to Combine High Computational Power with High Reliability (Embedded Tutorial) - Leonardo Bautista-Gomez, Franck Cappello, Luigi Carro, Nathan DeBardleben, Bo Fang, Sudhanva Gurumurthi, Karthik Pattabiraman, Paolo Rech, Design, Automation and Test in Europe (DATE'14), Dresden, Germany.
- PPoPP'14** Detecting Silent Data Corruption through Data Dynamic Monitoring for Scientific Applications (Poster) - Leonardo Bautista-Gomez, Franck Cappello, 19th ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming 2014 (PPoPP'14), Orlando, FL, USA. (Acceptance rate 26.2%)
- BigData'13** Improving Floating Point Compression through Binary Masks (Short Paper) - Leonardo Bautista-Gomez, Franck Cappello, IEEE International Conference on Big Data 2013 (IEEE-BigData'13), Santa Clara, CA, USA. (Acceptance rate 38.2%)