

Academic Interests

High Performance Computing: parallel programming, resilience, green computing, load balancing.
Bioinformatics: parallel implementations of sequence analysis algorithms.
Distributed Computing: timestamp systems, consistency protocols, cloud computing.
Web Mining: text and link analysis, symbolic representations.

Education

Doctor of Philosophy in Computer Science
University of Illinois at Urbana-Champaign
August, 2013

Master of Science in Bioinformatics
University of Illinois at Urbana-Champaign
May, 2013

Master of Science in Computer Science, Magna Cum Laude
Costa Rica Institute of Technology
March, 2007

Bachelor of Engineering in Computing Engineering, with Honors
Costa Rica Institute of Technology
September, 2001

Awards and Fellowships

- ◇ *Mark Baker Best Student Paper Award at IEEE International Conference on Cluster Computing (Cluster) 2014 for the paper “Scalable Replay with Partial-Order Dependencies for Message-Logging Fault Tolerance”*. Madrid, Spain, September, 2014.
- ◇ *Feng Chen Memorial Award*. Department of Computer Science, University of Illinois at Urbana-Champaign, United States. April, 2013.
- ◇ *Julio Salek Aude Best Paper Award at 24th International Symposium on Computer Architecture and High Performance Computing for the paper “Assessing Energy Efficiency of Fault Tolerance Protocols for HPC Systems”*. New York, United States, October, 2012.
- ◇ *Computer Science Excellence Fellowship*. Department of Computer Science, University of Illinois at Urbana-Champaign, United States. Fall, 2012 - Spring, 2013.
- ◇ *Fulbright Scholarship*. Fulbright-LASPAU. August, 2007 - July, 2009.
- ◇ *Paper “Measuring Contribution of HTML Features in Web Document Clustering” selected one of the best articles on 32nd Latin American Conference on Informatics*. San José, Costa Rica, 2007.
- ◇ *Excellence Challenge Prize, Best Professor in Computing Engineering*. Procter&Gamble, Costa Rica, 2007.
- ◇ *Paper “Convergence Through a Weak Consistency Model: Timed Causal Consistency” selected one of the best articles on 30th Latin American Conference on Informatics*. Arequipa, Perú, 2004.
- ◇ *Best GPA in the School of Mathematics during 1998*. University of Costa Rica, 1999.

Recommenders

- ◇ Professor Laxmikant V. Kalé. Department of Computer Science, University of Illinois at Urbana-Champaign.
- ◇ Antonio Ferreira, PhD. Center for Simulation and Modeling, University of Pittsburgh.
- ◇ Celso Mendes, PhD. National Center for Supercomputing Applications (NCSA).
- ◇ Greg Bronevetsky, PhD. Google Inc.

Technical skills	<i>Parallel Programming Languages:</i> MPI, OpenMP, OpenACC, CUDA, Charm++. <i>Sequential Programming Languages:</i> Python, C++, C, Java, ML, Scheme, Lisp, C#. <i>Operating Systems:</i> Linux, Windows. <i>Databases:</i> MySQL.	
Research Experience	National High Technology Center San José, Costa Rica ◇ Director of the National Advanced Computing Collaboratory.	<i>National Advanced Computing Collaboratory</i> July, 2016 - present
	University of Pittsburgh Pittsburgh, Pennsylvania ◇ Research Assistant Professor in the Department of Chemistry. ◇ Design of short courses on programming languages and tools for HPC. ◇ Development of parallel implementations of scientific algorithms.	<i>Center for Simulation and Modeling (SaM)</i> September, 2013 - June, 2015
	Parallel Programming Laboratory (UIUC) Urbana, Illinois ◇ HPC Colony: Removing Scalability, Fault, and Performance Barriers in Leadership Class Systems Through Adaptive System Software. ◇ A joint project with researchers from Oak Ridge National Laboratory and IBM. ◇ Development of efficient fault-tolerance strategies in Charm++.	<i>HPC Colony</i> January, 2010 - August, 2013
	Argonne National Laboratory (ANL) Chicago, Illinois ◇ Summer intern at the Mathematics and Computer Science Division. ◇ Design and implementation of a network module in MPICH2 library for LAPI. ◇ Experiments on fault tolerance protocols for HPC.	<i>MPICH Group</i> June, 2010 - August, 2010
	Computing Research Center (CIC, ITCR) Cartago, Costa Rica ◇ Subproject ADN (National Data Analysis). ◇ Implementation of a portal for analyzing national data using D2K tool from NCSA. ◇ Research in techniques of machine learning for discovering patterns in national databases.	<i>National Cluster for Advanced Research</i> January, 2007 - July, 2007
	Computing Research Center (CIC, ITCR) Cartago, Costa Rica ◇ Research and software development in web mining. ◇ Analysis of the Costa Rican web. ◇ Research on strategies for classifying web objects.	<i>Klá</i> January, 2005 - December, 2006
	Computing Research Center (CIC, ITCR) Cartago, Costa Rica ◇ Research and software development on time stamping systems. ◇ Research on consistency protocols for distributed systems.	<i>SPREAD</i> July, 2004 - December, 2006
Teaching Experience	Costa Rica Institute of Technology (ITCR) School of Computing ◇ Classes imparted: <i>High Performance Computing and Embedded Systems, Network Science and Big Data, and Parallel Computing.</i>	<i>Associate Professor</i> 2015-present
	Costa Rica Institute of Technology (ITCR) School of Computing ◇ Classes imparted: <i>Algorithms and Data Structures, Computer Organization, Compilers and Interpreters, Artificial Intelligence, Operating Systems Principles, Operations Research.</i>	<i>Assistant Professor</i> 2005-2015
	Costa Rica Institute of Technology (ITCR) School of Computing ◇ Classes imparted: <i>Algorithms and Data Structures, Computer Organization, Programming Languages, Compilers and Interpreters.</i>	<i>Instructor</i> 2001-2005

University of Pittsburgh
Computer Science Department
◇ Classes imparted: *Introduction to High Performance Computing Systems*.

Lecturer
2014-2015

Cenfotec
Software Engineering Department
◇ Classes imparted: *Data Structures* and *Computer Architecture*.

Instructor
2005-2006

**Advising
Experience**

Costa Rica Institute of Technology
School of Computing
◇ Luis Diego Chavarría, *Master of Computing (Computer Science Concentration)*, Thesis: *Parallelization of Plasma Physics Simulations on Massively Parallel Architectures*, Magna Cum Laude, graduated 2017.

Thesis Advisor
2016 - present

**Industry
Experience**

PrediSoft
San José, Costa Rica
◇ Design and development of a neural network system.
◇ Development of systems for Principal Component Analysis and Time Series Analysis.

Research and Development
January, 2004 - March, 2005

ArtinSoft Corp
San José, Costa Rica
◇ Development of several modules of a type guided compiler for a functional programming language.
◇ Development of a lightweight typing system for a functional programming language.
◇ Development of several modules of a typing system for a functional programming language.

Research and Development
January, 2001 - November, 2003

**Service and
Memberships**

- ◇ *XSEDE Campus Champion at the University of Pittsburgh*. September, 2013 - June, 2015.
- ◇ *Program Committee Member*: International European Conference on Parallel and Distributed Computing (EuroPar 2016), IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGRID 2016), Latin American High Performance Computing Conference (CARLA 2016), International Workshop on Fault Tolerant Systems (FTS 2015, 2016, 2017), International Symposium on Computer Architecture and High Performance Computing (SBAC-PAD 2014, 2015), International Conference of the Chilean Society of Computer Science (SCCC 2014, 2015, 2016).
- ◇ *Reviewer*: Sage International Journal of High Performance Computing Applications (IJHPCA), IEEE Transactions on Parallel and Distributed Systems (TPDS), IEEE Transactions on Sustainable Computing (TSUSC), Springer Cluster Computing (CLUS), ACM Transactions on Architecture and Code Optimization (TACO), Elsevier Journal of Parallel and Distributed Computing (JPDC), Elsevier Parallel Computing (ParCo), IOP Journal of Physics: Conference Series (JPCS), Springer The Journal of Supercomputing (TJS), Wiley Concurrency and Computation: Practice and Experience.
- ◇ *Professional Membership of the ACM (Association of Computing Machinery)*. Since 2002.
- ◇ Member of the *CS Graduate Student Academic Council*. Department of Computer Science, University of Illinois at Urbana-Champaign, Fall, 2009 - Spring, 2011.
- ◇ *Sponsor of the ACM Student Chapter at the Costa Rica Institute of Technology*. August, 2005 - July, 2007.

Publications

Journal Papers

1. Bilge Acun, Akhil Langer, Esteban Meneses, Harshitha Menon, Osman Sarood, Ehsan Totoni and Laxmikant V. Kalé. **Power, Reliability, and Performance: One System to Rule them All**. *Computer* 49, number 10, October, 2016, pp 30-37.
2. Esteban Meneses and Laxmikant V. Kalé. **CAMEL: Collective-Aware Message Logging**. *The Journal of Supercomputing (TJS)* 71, number 7, 2015, pp 2516-2538.
3. Esteban Meneses, Xiang Ni, Gengbin Zheng, Celso L. Mendes and Laxmikant V. Kalé. **Using Migratable Objects to Enhance Fault Tolerance Schemes in Supercomputers**. *IEEE Transactions on Parallel and Distributed Systems (TPDS)* 26, number 7, 2015, pp 2061-2074.

4. Esteban Meneses, Osman Sarood and Laxmikant V. Kalé. **Energy Profile of Rollback-Recovery Strategies in High Performance Computing.** *Parallel Computing (ParCo)* 40, number 9, 2014, pp 536-547.
5. Gengbin Zheng, Abhinav Bhatele, Esteban Meneses and Laxmikant V. Kalé. **Periodic Hierarchical Load Balancing for Large Supercomputers.** *International Journal for High Performance Computing Applications (IJHPCA)*, 25, number 4, 2011, pp 371-385.

Conference Papers

1. Esteban Meneses. **Reducing the Overhead of Message Logging in Fault-Tolerant HPC Applications.** *Latin American Conference on High Performance Computing (CARLA)*. Mexico City, Mexico. August, 2016.
2. Esteban Meneses and Laxmikant V. Kalé. **A Fault-Tolerance Protocol for Parallel Applications with Communication Imbalance.** *27th International Symposium on Computer Architecture and High Performance Computing (SBAC-PAD)*. Florianópolis, Santa Catarina, Brazil. October, 2015. **Acceptance rate: 25.49%.**
3. Jonathan Lifflander, Esteban Meneses, Harshitha Menon, Phil Miller, Sriram Krishnamoorthy and Laxmikant V. Kalé. **Scalable Replay with Partial-Order Dependencies for Message-Logging Fault Tolerance.** *IEEE International Conference on Cluster Computing (Cluster) 2014*. Madrid, Spain. September, 2014. **Acceptance rate: 23.8%. Mark Baker Best Student Paper Award.**
4. Osman Sarood, Esteban Meneses and Laxmikant Kalé. **A Cool Way of Improving the Reliability of HPC Machines.** *International Conference for High Performance Computing, Networking, Storage and Analysis (SC) 2013*. Denver, Colorado, USA. November, 2013. **Acceptance rate: 20%.**
5. Xiang Ni, Esteban Meneses, Nikhil Jain and Laxmikant Kalé. **ACR: Automatic Checkpoint/Restart for Soft and Hard Error Protection.** *International Conference for High Performance Computing, Networking, Storage and Analysis (SC) 2013*. Denver, Colorado, USA. November, 2013. **Acceptance rate: 20%.**
6. Emmanuel Jeannot, Esteban Meneses, Guillaume Mercier, François Tessier and Gengbin Zheng. **Communication and Topology-aware Load Balancing in Charm++ with TreeMatch.** *IEEE International Conference on Cluster Computing (Cluster) 2013*. Indianapolis, Indiana, USA. September, 2013. **Acceptance rate: 31%.**
7. Esteban Meneses, Osman Sarood and Laxmikant V. Kalé. **Assessing Energy Efficiency of Fault Tolerance Protocols for HPC Systems.** *24th International Symposium on Computer Architecture and High Performance Computing (SBAC-PAD)*. New York City, New York, USA. October, 2012. **Acceptance rate: 28.12%. Julio Salek Aude Best Paper Award.**
8. Xiang Ni, Esteban Meneses and Laxmikant V. Kalé. **Hiding Checkpoint Overhead in HPC Applications with a Semi-Blocking Algorithm.** *IEEE International Conference on Cluster Computing (Cluster) 2012*. Beijing, China. September, 2012. **Acceptance rate: 28.86%.**
9. Esteban Meneses, Greg Bronevetsky and Laxmikant V. Kalé. **Dynamic Load Balance for Optimized Message Logging in Fault Tolerant HPC Applications.** *IEEE International Conference on Cluster Computing (Cluster) 2011*. Austin, Texas, USA. September, 2011. **Acceptance rate: 27.85%.**
10. Thomas Ropars, Amina Guermouche, Bora Uar, Esteban Meneses, Laxmikant V. Kalé and Franck Cappello. **On the Use of Cluster-Based Partial Message Logging to Improve Fault Tolerance for MPI HPC Applications.** *European Conference on Parallel Processing (Euro-Par) 2011*. Bordeaux, France. September, 2011. **Acceptance rate: 29.9%.**
11. María A. Quirós-Ramírez, Yuan-Hao Chiang and Esteban Meneses. **ATLAS: A Real-Time HTML Document Collaborative Edition System with Multiple Consistency Levels (in Spanish).** *XXXIII Latin American Conference on Informatics*. San José, Costa Rica. October, 2007.
12. Esteban Meneses and Oldemar Rodríguez-Rojas. **Measuring Contribution of HTML Features in Web Document Clustering.** *XXXIII Latin American Conference on Informatics*. San José, Costa Rica. October, 2007.

13. Esteban Meneses. **Characterizing the Structure of Central American Web.** *XXXIII Latin American Conference on Informatics*. San José, Costa Rica. October, 2007.
14. Esteban Meneses. **Vectors and Graphs: Two Representations to Cluster Web Sites Using Hyperstructure.** *4th Latin American Web Congress*. Cholula, México. October, 2006.
15. Esteban Meneses. **Mining the Costa Rican Web.** *International Conference on Web Information Systems and Technologies*. Setúbal, Portugal. April, 2006.
16. Esteban Meneses and Francisco J. Torres-Rojas. **Time and Order Considerations in Consistency Models for Web Caching.** *The 2005 International Conference on Parallel and Distributed Processing Techniques and Applications*. Las Vegas, Nevada, United States. June, 2005.
17. Francisco J. Torres-Rojas and Esteban Meneses. **Applying Sequential Consistency to Web Caching.** *The 2005 International Conference on Parallel and Distributed Processing Techniques and Applications*. Las Vegas, Nevada, United States. June, 2005.
18. Francisco J. Torres-Rojas, Esteban Meneses and Alexander Carballo. **Developing a Web Caching Architecture with Configurable Consistency: A Proposal.** *International Conference on Web Information Systems and Technologies*. Miami, Florida, United States. May, 2005.
19. Francisco J. Torres-Rojas and Esteban Meneses. **Analyzing Convergence in Consistency Models for Distributed Objects.** *The 8th International Conference On Principles Of Distributed Systems (OPODIS)*. Grenoble, France. December, 2004.
20. Francisco J. Torres-Rojas and Esteban Meneses. **Convergence Through a Weak Consistency Model: Timed Causal Consistency.** *XXX Latin American Conference on Informatics*. Arequipa, Perú. September, 2004.
21. Esteban Meneses and Francisco J. Torres-Rojas. **Possible and Impossible Vector Clock Sets.** *The 2004 International Conference on Parallel and Distributed Processing Techniques and Applications*. Las Vegas, Nevada, United States. June, 2004.

Workshop Papers

1. George Chatzikonstantis, Diego Jimenez, Esteban Meneses, Christos Strydis, Harry Sidiropoulos, and Dimitrios Soudris. **From Knights Corner to Landing: a Case Study Based on a Hodgkin-Huxley Neuron Simulator.** *Intel Xeon Phi Users Group (IXPUG)*. Frankfurt, Germany. June, 2017.
2. Esteban Meneses, Xiang Ni, Terry Jones and Don Maxwell. **Analyzing the Interplay of Failures and Workload on a Leadership-Class Supercomputer.** *Cray User Group Conference (CUG)*. Chicago, Illinois, USA. April, 2015.
3. Esteban Meneses, Xiang Ni and Laxmikant V. Kalé. **A Message-Logging Protocol for Multicore Systems.** *Workshop on Fault-Tolerance for HPC at Extreme Scale (FTXS) 2012*. Boston, Massachusetts, USA. June, 2012.
4. Esteban Meneses, Greg Bronevetsky and Laxmikant V. Kalé. **Evaluation of Simple Causal Message Logging for Large-Scale Fault Tolerant HPC Systems.** *16th IEEE Workshop on Dependable Parallel, Distributed and Network-Centric Systems (DPDNS) in IEEE International Parallel and Distributed Processing Symposium (IPDPS 2011)*. Anchorage, Alaska, USA. May, 2011.
5. Gengbin Zheng, Esteban Meneses, Abhinav Bhatele and Laxmikant V. Kalé. **Hierarchical Load Balancing for Charm++ Applications on Large Supercomputers.** *International Workshop on Parallel Programming Models and Systems Software for High-End Computing (P2S2)*. San Diego, California, USA. September, 2010.
6. Meneses, Esteban, Celso Mendes and Laxmikant V. Kalé. **Team-based Message Logging: Preliminary Results.** *3rd Workshop on Resiliency in High Performance Computing, in Clusters, Clouds, and Grids (CCGRID 2010)*. Melbourne, Victoria, Australia. May, 2010.
7. Laura Araya-Fernández, Ricardo León-Peralta, Esteban Meneses and José Castro. **A Parallel Implementation of Fuzzy ARTMAP in the High Performance Platform D2K (in Spanish).** *Workshop en Inteligencia Artificial. Jornadas Chilenas de Computación*. Iquique, Chile. November, 2007.

8. Iyubanit Rodríguez-Ramírez, Esteban Meneses and Francisco J. Torres-Rojas. **SEND: Distributed Executions Simulator (in Spanish)**. *XIII Encuentro Chileno de Computación. Jornadas Chilenas de Computación*. Valdivia, Chile. November, 2005.
9. Francisco J. Torres-Rojas and Esteban Meneses. **Timed Consistency: Unifying Model of Consistency Protocols in Distributed Systems**. *X Congreso Argentino en Ciencias de la Computación*. Buenos Aires, Argentina. October, 2004.
10. Esteban Meneses and Francisco J. Torres-Rojas. **Register Allocation Techniques in a Compiler: GCC vs C+- (in Spanish)**. *XII Encuentro Chileno de Computación, Jornadas Chilenas de Computación*. Arica, Chile. November, 2004.
11. Francisco J. Torres-Rojas and Esteban Meneses. **Some Interesting Properties About Vectorial Clocks (in Spanish)**. *Workshop en Sistemas Distribuidos y Paralelismo. Jornadas Chilenas de Computación*. Chillán, Chile. November, 2003.

Abstracts

1. Patrick H. Pisciuneri, Esteban Meneses, Angen Zheng, Alexandros Labrinidis, Panos K. Chrysanthis, and Peyman Givi. **Load Balancing, Dynamic Repartitioning, and Data Migration in Turbulent Reactors**. *15th International Conference on Numerical Combustion*. Avignon, France. April, 2015
2. Patrick Pisciuneri, Esteban Meneses, and Peyman Givi. **Dynamic Load Balancing Strategies for Parallel Reacting Flow Simulations**. *67th Annual Meeting of the APS Division of Fluid Dynamics*. San Francisco, California, USA. November, 2014.

Posters

1. Xiaolong Cui, Tariq Alturkestani, Esteban Meneses, Taieb Znati, and Rami Melhem. **Leaping Shadows: Adaptive and Power-aware Resilience for Extreme-scale Systems**. *European Conference on Computer Systems (EuroSys)*. London, United Kingdom. April, 2016.
2. Esteban Meneses and Oldemar Rodríguez-Rojas. **A Symbolic Representation for Distributed Web Document Clustering**. *4th Latin American Web Congress*. Cholula, México. October, 2006.
3. Esteban Meneses and Oldemar Rodríguez-Rojas. **Using Symbolic Objects to Cluster Web Documents**. *15th International World Wide Web Conference*. Edinburgh, Scotland. May, 2006.

Other

1. Warner Cháves, Juan Morán and Esteban Meneses. **Klá: A Crawler for Costa Rican Web (in Spanish)**. *Tiempo Compartido*. Journal of the School of Computing Engineering, Costa Rica Institute of Technology. Vol(7): 2. May, 2007.
2. Carlos E. Quesada Sánchez and Esteban Meneses. **Web Caching Replacement Policies (in Spanish)**. *Tecnología en Marcha*. Journal of the Costa Rica Institute of Technology. Vol 19(4). October-December, 2006.
3. Esteban Meneses and Francisco J. Torres-Rojas. **A Set Problem in Distributed Computing (in Spanish)**. *Revista Virtual de Matemática, Educación e Internet*. Journal of the School of Mathematics, Costa Rica Institute of Technology. October, 2005.
4. Esteban Meneses and Francisco J. Torres-Rojas. **Register Allocation Techniques in a Compiler: Part II (in Spanish)**. *Tiempo Compartido*. Journal of the School of Computing Engineering, Costa Rica Institute of Technology. Vol(6): 1. August, 2005.
5. Esteban Meneses and Francisco J. Torres-Rojas. **Register Allocation Techniques in a Compiler : Part I (in Spanish)**. *Tiempo Compartido*. Journal of the School of Computing Engineering, Costa Rica Institute of Technology. April, 2001.

Book Reviews

1. Esteban Meneses. **Words and Rules (in Spanish)**. *Tiempo Compartido*. Journal of the School of Computing Engineering, Costa Rica Institute of Technology. Vol(6): 3. August, 2006.

University of Costa Rica, School of Physics, Research Colloquia. *Parallel Programming Models for Computational Physics.* San José, Costa Rica. May, 2017.

University of Costa Rica, School of Electrical Engineering, Computational Science Network Seminar Series. *Parallel Programming Models for Scientific Computing.* San José, Costa Rica. February, 2016.

Costa Rica Institute of Technology, School of Computing, Research Seminar Series. *Scientific Computing Programming with Parallel Objects.* San José, Costa Rica. September, 2015.

University of Costa Rica, School of Computer Science and Informatics, Doctoral Seminar Series. *Fault Tolerance in High Performance Computing.* San José, Costa Rica. August, 2015.

Lawrence Livermore National Laboratory, Institute for Scientific Computing Research Seminar. *Exploring the Interplay of Reliability and Energy Efficiency in HPC Systems.* Livermore, California, USA. July, 2014.

University of Costa Rica, School of Medicine. *Parallel Computing for Bioinformatics.* San José, Costa Rica. January, 2014.

University of Pittsburgh, Computer Science Colloquium Series. *Reliable High Performance Computing through Migratable Objects.* Pittsburgh, Pennsylvania. November, 2013.

University of Pittsburgh, SaM Seminar Series. *Green and Resilient High Performance Computing at Extreme Scale.* Pittsburgh, Pennsylvania, USA. May, 2013.

Conferences

Presenter

27th International Symposium on Computer Architecture and High Performance Computing (SBAC-PAD). Presenting the paper *A Fault-Tolerance Protocol for Parallel Applications with Communication Imbalance.* Florianópolis, Santa Catarina, Brazil. October, 2015.

24th International Symposium on Computer Architecture and High Performance Computing (SBAC-PAD). Presenting the paper *Assessing Energy Efficiency of Fault Tolerance Protocols for HPC Systems.* New York City, New York, USA. October, 2012.

IEEE International Conference on Cluster Computing (Cluster). Presenting the paper *Dynamic Load Balance for Optimized Message Logging in Fault Tolerant HPC Applications.* Austin, Texas, USA. September, 2011.

4th Latin American Web Congress. Presenting the papers *Vectors and Graphs: Two Representations to Cluster Web Sites Using Hyperstructure* and *A Symbolic Representation for Distributed Web Document Clustering (poster).* Puebla, México. October, 2006.

International World Wide Web Conference. Presenting the paper *Using Symbolic Objects to Cluster Web Documents (poster).* Edinburgh, Scotland. May, 2006.

The 2005 International Conference on Parallel and Distributed Processing Techniques and Applications. Presenting the paper *Time and Order Considerations in Consistency Models for Web Caching.* Las Vegas, Nevada, United States. June, 2005.

Conferencia Latinoamericana de Estudios en Informática. Presenting the paper *Convergence Through a Weak Consistency Model: Timed Causal Consistency.* Arequipa, Perú. September, 2004.

Workshops

Presenter

Workshop on Fault-Tolerance for HPC at Extreme Scale (FTXS) 2012. Presenting the paper *A Message-Logging Protocol for Multicore Systems.* Boston, Massachusetts, USA. June, 2012.

3rd Workshop on Resiliency in High Performance Computing, in Clusters, Clouds, and Grids (CCGRID 2010). Presenting the paper *Team-based Message Logging: Preliminary Results.* Melbourne, Victoria, Australia. May, 2010.

Jornadas Chilenas de Computación. Presenting the paper *SEND: Distributed Execution Simulator.* Valdivia, Chile. November, 2005.

Jornadas Chilenas de Computación. Presenting the paper *Some Interesting Properties About Vectorial Clocks.* Chillán, Chile. November, 2003.

Seminars and Courses

Attendee

Data Analysis Tools. A 4-week long course in Coursera imparted by Wesleyan University. April, 2017.

International Summer School on HPC Challenges in Computational Sciences. A week-long

seminar on HPC tools and applications. New York, United States. June, 2013.

Presenting Data and Information. A one-day course taught by Edward Tufte. Chicago, United States. August, 2012.

Grid World 2005. Student scholarship to attend conference organized by Global Grid Forum. Boston, Massachusetts, United States. October, 2005

.net Training Tour. Seminar on Microsoft *.net* platform. San José, Costa Rica. November, 2001.

I Encounter of Mathematics Applied to Engineering, Computing and Science. Presentations about applications of mathematical methods. San José, Costa Rica. February, 2001

Languages

Spanish: native.

English: proficient.

Portuguese: basic.