

RÉSUMÉ

Carlos Jaime Barrios Hernández

Identification Number: 91487870 of Bucaramanga,

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Date of Birth: March 21, 1976

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Personal Address in France: 9, Rue de Sault, 38000 Grenoble, France

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Education:

1993 Vicente Azuero Departmental College
Floridablanca, Colombia
Business Bachelor

1994 - 2002 Universidad Industrial de Santander - Industrial of Santander University (UIS)
Bucaramanga, Colombia
Engineer of Systems and Informatics

2004-2005 Joseph Fourier University - Informatics and App Mathematics
Grenoble, France
Master II Research " Systems and Computing"

Today PhD. Student in Computer Science
University of Nice at Sophia Antipolis, France
Advisors: Yves DENNEULIN (INPG) and Michel RIVEILL (UNSA)

Experience:

1995 - 1999 Studies and research coordinator of the Halley Center of Astronomy and Aerospace Sciences at UIS.

1999 - 2002 General Director of the Halley Center of Astronomy and Aerospace Sciences at UIS.

1996 - 2002 Astronomy Course Instructor and teacher of the Halley Center of Astronomy and Aerospace Sciences at UIS.

2002 - 2004 Administrative Coordinator of the Halley Center of Astronomy and Aerospace Sciences at UIS.

2002 - 2004 Professor in Numerical Analysis, Computing Programming and Parallel Processing at UIS.

2004- Today Research Student at Computer Science Laboratory of Grenoble. Anntenne ID. Mescal Project.

2006-Today Research PhD. Student at Computer Science, Signals and Systems Laboratory of Sophia-Antipolis. Rainbow Team.

Research Presentations in National and International Congress and Forums with Publications

2000 - IX National Engineering Systems Congress. Universidad Distrital Francisco José de Caldas, Bogotá, Colombia. "Modeling and simulation of stellar and planetary formation and population with Dynamic System" (2nd Place in Best Paper Presentation) with Orlando Katime

2001 - VIII "La Hechicera" Astrophysical and Relativity School. Universidad de Los Andes, Mérida, Venezuela. "Modeling and simulation of stellar evolution and population with Dynamic System Methodology". with Orlando Katime

2002 - IX "La Hechicera" Astrophysical and Relativity School. Universidad de Los Andes, Mérida, Venezuela. "A Model of Galactic Evolution with Dynamic System" with Orlando Katime and Vladimir Peña

- 2003 - 2nd National Astrophysics School. Astronomy National Observatory of Colombia. Universidad Nacional de Colombia. Bogotá. "Numerical Simulation of terrestrial planet formation since protoplanetary disks in normal stars". with Orlando Katime.
- 2003 - "Proyecto Cumulus: Computación de Alto Rendimiento en Redes de Pc's, la Experiencia en la UIS" High Performance Computing In Linux Cluster Latin-American School. Universidad de Los Andes, Mérida, Venezuela. "The Cumulus Project" with Juan Casallas,
- 2004 - "Astrophysics Plasmas School Ad Honorem to Dr. Miguel Ibañez". Universidad de Los Andes, Mérida, Venezuela. "Parallel Algorithm for Temperature Calculus at Solar Jet" and "An Astrophysic Oscillate Jet Model" with Consuelo Ochoa and Janier Velandia.
- 2004 - "Dynamics Systems National Forum". with Orlando Katime. Universidad del Magdalena, Santa Marta, Colombia. "Astrophysics Simulation with Dynamic Systems" and "Planets Formation Since Protoplanetesimal Disk Modelling with Dynamic Systems"
- 2005 - "Un Modèle de Transfert Haut Débit en Applications pour Grilles de Calcul. Rapport de Stage pour le titre de Master Recherche en Mathématiques Appliquées et Informatique, Mention : Systèmes et Logiciels. Director : Dr. Yves DENNEULIN. Université Joseph Fourier (UJF), Institut de Mathématiques et Informatique de Grenoble (IMAG), Grenoble, France, 2005.
- 2005- "Modelling and Simulation of Astronomical Phenomena with Feedback using Systems Dynamics". XI IAU Regional Latin American Meeting of Astronomy. Editeurs. L. Infante et M. Rubio). with Orlando Katime. Revista Mexicana de Astronomía y Astrofísica (Serie de Conferencias) Vol. 26, pp. 126. Instituto de Astronomía, Universidad Nacional Autónoma de México, 2006.
- 2006- " High Bandwidth data transfer analysis and modeling in Grids. with Yves DENEULIN. 15Th High Performance Distributed Computing Conference - Proceedings in EXPGRID Workshop, Paris, France, 2006
- 2007-"Intensive and Massive HPC Data Transfer". Latinamerican Conference Of High Performance Computing 2007. Santa Marta, Colombia. Latinamerican Conference Of High Performance Computing 2007. Santa Marta, Colombia.
- 2007-"Performance Evaluation of Meta-Data Transfer and Storage in Clusters" with R. Kassick, R. Avila, P. Navaux, E. Hellman, M. Riveill and Y. Denneulin.
- 2007- "High Bandwidth Anomalies in Cluster and Grid Data Transfer", Barrios-Hernandez, Carlos; Denneulin, Yves; Riveill, Michel; Network and Parallel Computing Workshops, 2007. NPC Workshops. IFIP International Conference on 18-21 Sept. 2007 Page(s):442 - 448 Dalina, China

Languages:

Spanish (Natural), French (Fluent) and English (Scientific)

Scientifics Interest:

High Performance Computing Systems and Architectures (Grid Computing, Cluster Computing)

High Performance Computing Applications for E-Science

High Performance Computing Performance Evaluation and Modeling

Member Associations:

IEEE Student Member No. 80643894 France Section

ACM Student Member No. 9474175

References:

Arturo Plata Gómez, PhD. General Director of the Halley Center of Astronomy and Aerospace Sciences at UIS. Scientist and Professor of the Physics School at UIS. Bucaramanga, Colombia.

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Yves Denneulin, PhD. Master and Thesis Advisor Scientist and Professor of the INPG, Grenoble, France.

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Michel Riveill, PhD. (HDR) Thesis Advisor Scientist and Professor of the University of Nice at Sophia Antipolis, France Rainbow team director Sophia Antipolis, France riveill@unice.fr