

Francisco José Chinchilla

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I am seeking a full-time software development or research position starting in the Fall of 2005. My interests are High Performance Computing, Grid and web services, mobile computing, and networking. I enjoy experimental analysis and data visualization, and writing scripts and visualization tools to aid and speed up the discovery process.

Education:

<i>University of North Carolina at Chapel Hill (UNC-CH)</i>	2002 -2005	Graduate student in Computer Science Expected Master of Science Graduation Date: August 2005
<i>University of Richmond (UR)</i>	1998-2002	B.S. double major in Mathematics and Computer Science with a minor in Physics (magna cum laude and only Computer Science major to graduate with Departmental Honors in Class of 2002)
<i>Mazapán School</i>	1994-1998	High School Diploma (Valedictorian) Bachillerato en Ciencias y Letras (Medalla de Oro)

Skills:

<i>Computer Languages And Interfaces</i>	Java, C/C++, Perl, OpenGL, SQL; Ada, Brook, Cilk, Cg, C#, FORTRAN, HTML, JDBC, J2EE, LISP, Mathematica, Matlab, MIPS, MPI, OpenMP, Pascal, Smalltalk, SOAP, XML
<i>Operating Systems Technologies</i>	CiscoOS, Linux, MacOS, Unix, Windows (NetG Certification for A+ in Windows 95) 802.11, ECN, Globus, HTTP, MPEG, RED, Remote Frame Buffer protocol, RTP, TCP, UDDI
<i>Interpersonal</i>	Ability to lead and work with others on projects, excellent technical communication and presentation skills, fully bilingual in English and Spanish

Work Experience:

2004-	<u>Research Assistant</u> – Profs. Daniel A. Reed and Diane Pozefsky, UNC-CH Computer Science Department / Renaissance Computing Institute <ul style="list-style-type: none">* Developing adaptive code selection infrastructure for high performance scientific codes* Parallel and Scientific Computation on Playstation 2 cluster and graphics hardware-based PC clusters* Transforming a real-time distributed computing resources management system, into a web services/grid services compatible system
2003-2004	<u>Research Assistant</u> – Prof. Maria Papadopouli, UNC-CH Computer Science Department <ul style="list-style-type: none">* Setting up a traffic monitoring system at wireless access points* Analysis of traffic and association patterns of users in the campus wireless infrastructure
2000-2002	<u>Research Assistant</u> – Prof. Michael Vineyard and Gerard Gilfoyle, UR Physics Department <ul style="list-style-type: none">* Development of database-capable calibration software for the Large Angle Calorimeter of the CEBAF Large Acceptance Spectrometer in Hall-B of Thomas Jefferson National Accelerator* Rebuilding Large Angle Calorimeter bank information for 3.1GeV energy subset data of Hall-B G1C runs* Development and maintenance of a Linux Computing Cluster
2000-2002	<u>System Administrator</u> - UR Physics Linux Computing Cluster <ul style="list-style-type: none">* Install, configure, and upgrade OS, software, hardware on PC-Linux* Maintain security
1999-2000	<u>Help Desk Assistant</u> - UR Computing Help Desk <ul style="list-style-type: none">* Install, configure, and upgrade OS, software, hardware on PC-Windows

- 1999 Consultant - Tropico Network
* Install, configure, and upgrade OS, software, and hardware on Cisco Layer 3 Switches and Paradyne DSU's for use in an ISP

Teaching Experience:

- 2002-2003 Introduction To Computer Science Teaching Assistant – UNC-CH Computer Science Department
* Teach recitations for the Introduction to Computer Science course
* Grade homework, projects, and exams
* Hold review sessions
* Liaison between lab assistants and other teaching assistants
* Define the grading criteria for homework, projects, and exams
- 1999-2001 HTML Instructor – UR Information Services
* Teach an HTML Basics course
- 1999-2001 Introduction to Computer Science Lab Assistant - UR Computer Science Department
* Assist the professor in lab sessions for the Introduction to Computer Science course

Selected Publications and Presentations:

Francisco Chinchilla, Mark Lindsey, and Maria Papadopouli.
"Analysis of wireless information locality and association patterns in a campus"
IEEE Infocom 2004, Hong Kong, March 7-11, 2004.

Brian Wyman and Francisco Chinchilla
"Game strategy development"
Talk presented at MathFest (**winner of the American Mathematical Society Award for Outstanding Student Paper Presentations**). Burlington, VT, July 31 - August 2, 2002

Van Bowen and Francisco Chinchilla
"A Non-Conventional Application of Statistical Thinking"
Invited talk at the American Statistical Association's 2002 Quality & Productivity Research Conference. Tempe, AZ, June 5-7, 2002

F. Chinchilla, M. F. Vineyard, J.Lachniet, and V. Sapunenko
"Development and Testing of Calibration Software for the CLAS Large Angle Calorimeter"
Bulletin of the American Physical Society, Vol 46 No. 7, MS 34 p. 99, October 2001

F. Chinchilla, M.S. Fetea, G.P. Gilfoyle, and M.F. Vineyard
"From Quarks to Nucleons"
Talk given at 14th Summer School on Understanding the Structure of Hadrons. Prague, Czech Republic, July 9-13, 2001

F. Chinchilla, M.F. Vineyard, and G.P. Gilfoyle
"Development and Maintenance of a Linux Computing Cluster"
Bulletin of the American Physical Society, Vol 45 No. 5, AS 15 p. 19, October 2000

Volunteer Activities:

- 1998-2002 Virginia Department for the Blind and Visually Impaired
* Make Braille books and clean and repair audio cassette players
* Assist System and Database Administrators
- 1999-2001 Casa Feliz
* Mentor physically, psychologically, and sexually abused children