

Erick Moreno Centeno

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Nationality: Mexican

Objective

Achieve a professional career as a researcher-professor in the area of the design and analysis of optimization algorithms, achieving a balance between theory and applications

Skills Summary

- Thirteen years of programming knowledge and practice.
- Three year of experience as research assistant.
- Facility solving mathematical and optimization problems.
- A great dexterity solving problems which involve analysis and design of algorithms.
- Capacity of participating in multidisciplinary work groups.
- Leadership, creativity, responsibility, decisiveness and multicultural growth.
- Learning ability and eagerness to learn by myself.
- GRE: 800/800 Quantitative, 790/800 Analytic, 560/800 Verbal
- Fluent English 100% (TOEFL = 650). Basic knowledge of French.

Computer Proficiency

- Programming: C (10 years), VisualBasic, SQL, Pascal, Basic, Matlab and Maple (7 years).

Education

PhD. Candidate in Industrial Engineering and Operations Research June 2007
University of California at Berkeley, CA. USA

M.S. in Industrial Engineering and Operations Research June 2006
University of California at Berkeley, CA. USA

Minor in Combinatorial Optimization Aug 2000 – May 2003
Instituto Tecnológico y de Estudios Superiores de Monterrey, Monterrey, N.L. México

Minor in Intelligent Systems Aug 2000 – Dec 2002
Instituto Tecnológico y de Estudios Superiores de Monterrey, Monterrey, N.L. México

Bachelor of Science in Physics Engineering Aug 1998 – Dec 2002
Instituto Tecnológico y de Estudios Superiores de Monterrey, Monterrey, N.L. México.
Recipient of University's Excellence Mention
Recipient of University's Scholarship.

Engineering Non-degree Exchange Program Jan 2002 – Apr 2002
University of Waterloo, Waterloo, Ontario, Canada.

Research Experience

Cyberinfrastructure experiences for graduate students Jul 2007 – Ago 2007
Supercomputer Center at University of California at San Diego, CA. USA

- Large-scale optimization problem solving with parallel computing.

Graduate Research Assistant Jan 2007 – Jun 2007
University of California at Berkeley, CA. USA (with Prof. Dorit S. Hochbaum)

- Research, modeling and computational solution of a network design problem for a telecommunications company.

Volunteer Research Assistant Jan 2004 – Present
Instituto Tecnológico y de Estudios Superiores de Mty (with PhD. José Luis González Velarde)

- Research and implementation of combinatorial optimization algorithms.
- Applications include design of assembly systems for modular products.

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Research Experience (continued...)

Volunteer Research Assistant May 2003 – Dic 2003

Mexico's National University (UNAM) (with PhD. Luis B. Morales)

- Research and implementation of combinatorial optimization algorithms.
- Applications include protein folding.

Undergraduate Research Assistantship Jan 2002 – Apr 2002

University of Waterloo (with PhD. Alejandro Lopez-Ortiz)

- Literature research on subsumption techniques for an Automatic Theorem Prover (ATP).
- Implementation of those techniques increasing the ATP's performance.

Teaching Experience

Graduate Teaching Assistant Aug 2006 – Dec 2006

Physics Department University of California at Berkeley, CA, USA

- Outstanding graduate teaching assistant award recipient.

Volunteer Social Work (480 hours) Aug 2000 – Dec 2001

Instituto Tecnológico y de Estudios Superiores de Monterrey, Monterrey, N.L. México

- Leadership & Values teacher in a rural elementary school. (6 months)
- Science teacher in a rural elementary school. (1 year)

Professional Experience

Consultant in Information Technologies (Full Time) Feb 2003 – Present

DMR Consulting México, México, D.F.

- Design of some of the front end services for a Mexican bank's financial terminal.
- Implementation of a simulation tool for a Mexican bank's financial terminal.

Academic Support Services (Part Time: In-Campus Job) Aug 2000 – Dec 2002

Instituto Tecnológico y de Estudios Superiores de Monterrey, Monterrey, N.L. México

- Design and implementation of a storehouse managing program for the Physics Laboratory.
- Design and implementation of an administrative tool for the "Alumni Service Center"

Honors, Awards, and Scholarships

- Marshall-Oliver-Rosenberger Scholarship (UC Berkeley). 2007
- Outstanding teaching assistant award (UC Berkeley). 2007
- Excellence Mention at the Bachelor of Science in Physics Engineering (ITESM). 2002
- Scholarship during my Bachelor (ITESM Monterrey). 1998-2002
- Honorary Mention at my High School (ITESM Queretaro's Campus). 1998
- Excellence scholarship during my high school (ITESM Qro.). 1995-1998
- Five times places (2nd to 5th) at ACM Collegiate Programming Contest on the Central-American Region (1998-2002)
- Second place in the Programming Contest at the "Symposium on Computational Systems". (2000)
- Participant at Programming Contest "International Olympiad in Informatics" at Portugal. (1998)
- Second place at the IberoAmerican Correspondence Programming Contest (1998)
- First places at the National Olympiads in Chemistry, Physics and Informatics. (1997 - 1998)

Interests and Activities

- Participation in IEOR's Basketball team at intramural sports (2006-2007)
- Captain of the Basketball team of my Bachelor Major at intramural sports.
- Member of the Softball team of my Bachelor Major at intramural sports.
- Member of the Scientific Committee at the 4th Local ACM Program Contest at my university.
- I enjoy a wide variety of sports from fronton and squash to mountain biking.