

CURRICULUM VITÆ
FERNANDO GONZÁLEZ DEL CUETO

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EDUCATION

- Since 10/2004 Ph.D. student at CAAM, Rice University, Houston, TX. Currently working on *Interferometric imaging methods for mine detection using ground penetrating radar*. Supervisor: Prof. Liliana Borcea. Collaborating with Prof. George Papanicolaou (Stanford) and Prof. Chrysoula Tsogka (U. of Chicago).
- 08/2002-10/2004 M.A. in Computational and Applied Mathematics (CAAM), Rice University, Houston, TX. Thesis: *Wave propagation in randomly-layered media with an application to time-reversal*; Supervisor: Prof. Liliana Borcea.
- 08/1995-02/2000 Undergraduate Studies equivalent to a B.A. degree in Applied Mathematics. *Licenciatura en Matemáticas Aplicadas, Instituto Tecnológico Autónomo de México (ITAM)*, Mexico. Graduated with honors: *Mención Especial*. Minor in numerical optimization and statistics. Thesis: *Interior point methods for linear and quadratic programming*. Supervisor: Prof. José Luis Morales Pérez.
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WORKING EXPERIENCE

- 2002 *Primma Consulting, Madrid, Spain.*
Designed and implemented an online survey and statistical analysis system for Bristol-Myers-Squibb Latin America. Primary computer tools used: XHTML/CSS, VB/ASP, Javascript, and Microsoft Access. Some statistical methods used include Principal Component and Discriminant Analysis.
- 2001 *Grupo SIASA, Mexico City.*
Program and database design and implementation of inventory management and optimal computer-assisted quoting system. Main computer tools used: Visual Basic/ASP, Javascript, and Microsoft Access.
- Summer 1995 *Diagnóstico y Desarrollo, S.A. de C.V., Mexico City.*
Computer programming: Built Visual Basic applications and interfaces driven by Microsoft Access databases.
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COMPUTER SKILLS

- Languages: Good working knowledge and experience with Pascal, C, MATLAB, Microsoft Visual Basic, XHTML/CSS, and \LaTeX . Some exposure to C++, AMPL, Fortran, XML, and Lisp.
- Operating systems: UNIX systems (Linux, Solaris, etc), Mac OS X and Windows 9X/NT/XP.
- Statistics software: Experience working with packages such as SPSS, Statgraphics, Minitab, and SPlus.
- Databases: SQL language, ADO, ODBC and Microsoft Access.
- Visualization: Three-dimensional photo-realistic design and rendering using POV-Ray. Have some experience with OpenGL.
- Other: Extensive use of Microsoft Office suite (Word, Powerpoint, Excel, Access, Visio, etc). Programming extensions of Office via VBA.

LANGUAGE KNOWLEDGE

Spanish (native), English, and French.

ACADEMIC EXPERIENCE

Fall 2003 and Spring 2005: Teaching assistant (TA) of CAAM 336, *Differential Equations*.

Spring 2003 and Fall 2004: Grading assistant of CAAM 336, *Differential Equations*.

Spring 2003: Grading assistant of CAAM 336, *Differential Equations*.

Fall 2002: Grading assistant of CAAM 378, *Introduction to Operations Research and Optimization*.

1999 Computer programming teacher at *Bachillerato Alexander Bain*. High-school level. Mexico City, Mexico.

HONORS, GRANTS AND PROFESSIONAL MEMBERSHIPS

- Graduated with honors – *Mención Especial*, ITAM, 2001.
 - Student grant, *Consejo Nacional de Ciencia y Tecnología* (Equivalent to the National Science Foundation) Mexico. Project 25710-A: *Theory, software and algorithms for large-scale optimization problems*, 2000-2001.
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EXTRACURRICULAR ACTIVITIES

Since 12/2004: Organizer of the weekly CAAM Graduate Seminar.

Since 10/2004: Treasurer of the SIAM (Society for Industrial and Applied Mathematics) Student Chapter at Rice University.

Since 01/2005: Designer and maintainer of the Rice University GSA website.

08/2004–10/2005: Representative of the department of CAAM at the Rice University Graduate Student Association (GSA).

REFERENCES

The following are familiar with my professional qualifications and my character:

Prof. Dr. Liliana Borcea

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