

GERALDINE GRATALOUP

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EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, (GPA 4.8/5) **Cambridge, MA**

Master of Science in Civil and Environmental Engineering, 2003.

Thesis: Localization of nonlinear water waves over a random bottom.

Coursework includes design of water resource systems, mathematical and numerical modeling, fluid dynamics, sediment transport and coastal processes, turbulent flow and transport.

ECOLE NATIONALE DES PONTS ET CHAUSSEES **Paris, FRANCE**

‘Diplôme d’Ingénieur’, 2003; ‘Gradué en Ingénierie’, 2000, Civil Engineering Department.

Coursework includes soil mechanics, geology, construction processes, metal structures, reinforced concrete, foundations, wind effects on structures, hydrology, applied fluid mechanics, advanced mathematics, probability, statistics.

EXPERIENCE

Relationship Manager, The RISConsulting Group, 2004-Current **Boston, MA**

Consulting company advising international institutions in modeling and executing large-scale (typically up to \$3billion) financial risk-transfer transactions. Work description includes:

- Providing expert forensic analysis for resolving legal questions involving numerical models and Monte Carlo simulations.
- Developing scientific methodologies and financial frameworks for new asset value benchmarks to support the creation of aircraft-related insurance products and derivatives.
- Preparing proposals and supporting technical documents for potential business plans.
- Researching and analyzing asset portfolios of major corporations to support new business development.
- Assessing market requirements for aircraft-related financial risk analysis.
- Cultivating and developing long-term relationships with company clients, including equipment manufacturers, leasing companies and leading banks in the aircraft finance sector.

Research assistant, MIT Parsons Laboratory, 2001-2003 **Cambridge, MA**

- Developed mathematical and numerical models to solve problems applied to fluid mechanics.
- Published research findings in peer-reviewed journal: G.L. Grataloup & C.C. Mei, “Localization of harmonics generated in nonlinear shallow water waves” *Physical Review E*, August ‘03

Consultant, The World Bank Group, 2000-2001 **Washington, DC**

Technical analyst for the preparation, financing and appraisal of infrastructure projects in West Africa.

- Prepared shanty-town upgrading component in Nouakchott, Mauritania (providing basic health, sanitation, education, and transportation infrastructure for shantytown residents).
- Assisted the credit negotiations for a \$100 million urban development project in the Islamic Republic of Mauritania.
- Prepared local (Douala) and national transportation projects in the Republic of Cameroon.
- Wrote multi-lingual (Spanish, French and English) performance-based contracts for road network management and maintenance.

ADDITIONAL SKILLS

Languages: French (mother tongue), English (fluent), Spanish (fluent), German (good), Dutch (conversational).

Computer: standard Microsoft Office software, MATLAB, LaTeX.

INTERESTS

Volunteering: Fundraiser organizer for the construction of a dispensary in Düzce (Turkey).

Other: Scuba diving, sailing, cycling, skiing, travel and photography.