Eric A. Dussaud

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EDUCATION

Rice University, Houston, TX
Ph.D. Student in Computational and Applied Mathematics.
Expected Date of Graduation: May, 2005.

University of Houston, Houston, TX
B.S. of Geophysics and Mathematics.
Graduation: December, 1998 (honors in Geophysics).

EXPERIENCE

Doctoral Research — Rice University, Houston, TX — January 2000 - present

Research advisor: William Symes.
Research focus: velocity macro-model estimation by combining ideas on time reversal and imaging in inhomogeneous media set forth by G. Papanicolaou and his group and velocity estimation methods of differential semblance type.

Internship — Total, Houston Geophysical Research Group, TX — Summer 2004

Implemented an explicit extrapolation scheme based on the McClellan transform for poststack migration and extended the technique to prestack migration of common offset, common-azimuth data.

Teaching Assistant — Rice University, Houston, TX — Spring 2001

Class: Differential Equations in Science and Engineering.
Teaching Advisor: Matthias Heinkenschloss.
Duties included weekly recitation sessions, homework grading and solutions, and office hours.

Storage Engineer — Sofregaz US Inc., Houston, TX — January 1995 - December 1999

Conducted simulation studies related to reservoir and salt cavern gas storage design and optimization for various clients including Market Hub Partners, Enstor L.P., Western Hub Properties L.L.C. and AEP Resources Inc. The simulations rely on extensive use of computer modeling and aim at analyzing and controlling salt cavern solution mining and operation, well hydraulics, cavern thermodynamics and reservoir engineering.
Co-developer of a salt cavern control software for a gas storage for Aquila Energy Inc. (UK).

SKILLS

Highly experienced using Unix operating systems (Linux, Solaris) and Windows environment.
Proficient programming skills in C, C++, Fortran, MPI, Matlab, and LaTex.
Fluent in French and English.

HONORS AND AWARDS

Recipient of the Tietze Fellowship, 2004.
Member of Rice's winning team, SIAM 100-Digit Challenge, 2002.
Recipient of the Union Pacific Resources Scholarship in Geophysics, 1997.
University of Houston Dean's List: Fall 1995, Spring 1996, Spring 1997, Spring 1998.