

BIOGRAPHICAL SKETCH

Fang Q. Hu

A. EDUCATION

B.S., Mathematics, Zhejiang University, CHINA, 1982.

M.S., Engineering, Zhejiang University, CHINA, 1985.

Ph.D., Mathematics, Florida State University, 1990.

B. APPOINTMENTS

Aug. 2002 to Present Professor

Aug. 1996 to July 2002 Associate Professor

Aug. 1990 to July 1996 Assistant Professor

Department of Mathematics and Statistics

Old Dominion University

C. PUBLICATIONS

Ten relevant publications

1. F. Q. Hu, X. D. Li and D. K. Lin, Absorbing boundary conditions for nonlinear Euler and Navier-Stokes equations based on the Perfectly Matched Layer technique, *Journal of Computational Physics*, Vol. 227, 4398-4424, 2008.
2. F. Q. Hu, Development of PML absorbing boundary conditions for computational aeroacoustics: A progress review, *Computers & Fluids*, Vol. 37, 336-348, 2008.
3. F. Q. Hu, A Perfectly Matched Layer Absorbing Boundary Condition for Linearized Euler Equations With a Non-uniform Mean Flow , *Journal of Computational Physics*, Vol. 208, 469-492, 2005.
4. F. Q. Hu and H. L. Atkins, Eigensolution analysis of discontinuous Galerkin method. Part I, One space dimension, *Journal of Computational Physics*, Vol. 182, 516-545, 2002
5. F. Q. Hu, A stable, Perfectly Matched Layer for linearized Euler equations in unsplit physical variables, *Journal of Computational Physics*, Vol. 173, 455-481, 2001
6. F. Q. Hu, M. Y. Hussaini and P. Rasetarinera, An analysis of the discontinuous Galerkin method for wave propagation problems. *Journal of Computational Physics*, Vol. 151, 921-946, 1999.

7. F. Q. Hu, On absorbing boundary conditions for linearized Euler equations by a perfectly matched layer, *Journal of Computational Physics*, Vol. 129, 201-219, 1996.
8. F. Q. Hu, M. Y. Hussaini and J. L. Manthey, Low-dissipation and -dispersion Runge-Kutta schemes for computational acoustics. *Journal of Computational Physics*, Vol. 124, 177-191, 1996.
9. F. Q. Hu, A spectral boundary integral equation method for the 2-D Helmholtz equation. *Journal of Computational Physics*, Vol. 120, 340-347, 1995.
10. F. Q. Hu, Acoustic and instability waves associated with a jet confined inside a rectangular lined duct. *Journal of Sound and Vibration*, Vol. 183 (5), 841-856, 1995.

D. SYNERGISTIC ACTIVITIES

- US Department of Energy INCITE proposals review panelist, 2008.
- Co-organizer of minisymposium "High-order numerical methods and boundary conditions for computational aeroacoustics", International Conference On Spectral and High Order Methods, Beijing, China, June 18- 22, 2007.
- Aeroacoustics Technical Committee of American Institute of Aeronautics and Astronautics, 2004-2007
- Reviewer for *Journal of Computational Physics*, *Journal of Fluid Mechanics*, *Physics of Fluids*, *AIAA Journal*, *Journal of Fluid Engineering* and proposal reviewer for NSF.
- Associate Fellow of American Institute of Aeronautics and Astronautics