

Thomas S. Lund

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RESEARCH INTERESTS:

Fluid mechanics, hydrodynamics, numerical simulation of turbulent flows, stratified flows, turbulence in the upper atmosphere, data analysis.

EDUCATION:

Ph.D. - Stanford University, Aeronautics and Astronautics, 1987. Coursework concentrated in aerodynamics, computational fluid dynamics, mathematics.

M.S. - Stanford University, Aeronautics and Astronautics, 1984.

B.S. - University of California, San Diego, Applied Mechanics, 1983.

PROFESSIONAL EXPERIENCE:

Research Scientist, 10/02-present - NorthWest Research Associates, CORA Division, Boulder CO. Conducting research on large eddy simulation and subgrid-scale modeling for stratified atmospheric flows.

Research Professor, 6/02-present - University of Colorado at Boulder, Aerospace Engineering Sciences. Conducting research on hybrid large eddy simulation/Reynolds averaged Navier-stokes methods.

Associate Professor, 9/97-6/02 - Department of Mechanical and Aerospace Engineering, The University of Texas at Arlington. Conducted research in the areas of Large eddy simulation, subgrid-scale modeling, and numerical analysis. Taught courses in aerodynamics and computational fluid dynamics.

Research Associate, 11/90-8/97 - Center for Turbulence Research, Stanford University. Developed numerical methods and turbulence models for large eddy simulation of complex turbulent flows.

Research Engineer, 7/89-10/90 - Rockwell International, National Aerospace Plane Group, Downey, CA. Performed computational aerodynamics analysis of hypersonic aircraft.

Assistant Professor, 8/87-6/89 - School of Aeronautics and Astronautics, Purdue University. Taught courses in fluid mechanics, supersonic aerodynamics, and hypersonic aerodynamics. Conducted research in the areas of boundary layer transition for hypersonic aircraft.

AWARDS and HONORS:

John DeYoung Outstanding Teaching Award, Dept. of Mechanical and Aerospace Engineering, U. T. Arlington, 2002.

John DeYoung Outstanding Teaching Award, Dept. of Mechanical and Aerospace Engineering, U. T. Arlington, 2001.

Research Fellowship, Center for Turbulence Research, Stanford University 1990.

CITIZENSHIP: USA.

ADDITIONAL: Private pilot, instrument rated. Aircraft owner