

Siva K. Nadarajah

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- EDUCATION** Ph.D. in Aeronautics/Astronautics, Spring 98-present, Stanford University, Stanford
MS in Aeronautics/Astronautics, Spring 1998, Stanford University, Stanford, CA
BS in Aerospace Engineering, Spring 1997, University of Kansas, Lawrence, KS.
BS in Mathematics, Spring 1997, University of Kansas, Lawrence, KS
- AWARDS** Stanford Research Assistantship -- 1998-present
First Place -- 1996/97 AIAA/United Technologies/Pratt & Whitney
Undergraduate Individual Aircraft Design Competition
RFP : V/STOL Executive Aircraft
First Place -- 1996/97 NASA/AGATE National General Aviation Design
Competition. RFP : A Four Passenger Kitplane
- HONORS** MIT Computational Fluid and Solid Mechanics Conference Young Research
Scientist Fellowship, June 2001.
Most Outstanding Senior in the School of Engineering 1996-97
Most Outstanding Senior Aerospace Engineering Student 1996-97
Phi Beta Kappa-Honor Society for the Humanities & Science 1997-present
Goldsmith Aerospace Merit Scholar 1996-97
Most Outstanding Junior Aerospace Engineering Student 1995-96
Endowment Award 1995-96
Charles Hopps Award for Excellence in Mathematics 1995-96
Engineering Dean's Honor Roll
- CONFERENCE PAPERS** *CFD Investigation of the Flight Characteristics of a Canard General-Aviation Configuration.* Co-presented at AIAA Student Paper Competition, Spring 1996.
Nadarajah S. and Jameson A., "A Comparison of the Continuous and Discrete Adjoint Approach to Automatic Aerodynamic Optimization," AIAA 38th Aerospace Sciences Meeting and Exhibit, AIAA-2000-0667, Reno, NV, January 2000.
Nadarajah S. and Jameson A., " Studies of the Continuous and Discrete Adjoint Approaches to Viscous Automatic Aerodynamic Shape Optimization," AIAA 15th Computational Fluid Dynamics Conference, AIAA-2001-2530, Anaheim, CA, June 2001.
Nadarajah S., Jameson A., Alonso J., "An Adjoint Method for the Calculation of Non-Collocated Sensitivities in Supersonic Flow," First MIT Conference on Computational Fluid Dynamics, Cambridge, MA, June 2001
Nadarajah S., Jameson A., Alonso J., " An Adjoint Method for the Calculation of Remote Sensitivities in Supersonic Flow," AIAA 40th Aerospace Sciences Meeting and Exhibit, AIAA-2002-0261, Reno, NV, January 2002.

PRESENTATIONS *"A Comparison of the Continuous and Discrete Adjoint Approach to Automatic Aerodynamic Optimization"*, Stanford Department of Aeronautics and Astronautics Affiliate Program, April, 2000

"An Adjoint Method for the Calculation of Non-Collocated Sensitivities in Supersonic Flow", Stanford Department of Aeronautics and Astronautics Affiliate Program, April, 2001

"Aerodynamic Shape Optimization Using Control Theory", Air Force Office of Scientific Research, Stanford University, June, 2001

EXPERIENCE

9/94 - 12/96 Instructor, Math 101 College Algebra
University of Kansas, Lawrence, Kansas

6/94 - 8/97 Computer Programmer, Mathematics Department
Software Writer, Developing a test generator
University of Kansas, Lawrence, Kansas

6/96 - 6/97 Research Assistant
Computational Fluid Dynamics - Investigation of Dynamic Stall using ARC2D and Mesh Movement Method.
Center for Research Incorporated (CRINC), University of Kansas

3/97 - 7/97 Aerospace Consultant
Conceptual Airplane Design Consultant
DARCorp., Lawrence, Kansas

7/98 - present Research Assistant
Aerospace Computing Laboratory, Department of Aeronautics and Astronautics ,
Stanford University.

7/98 - present System and Network Administrator for Parallel Machines
Aerospace Computing Laboratory, Department of Aeronautics and Astronautics ,
Stanford University. Maintain Software and Hardware for a 32 processor SGI
Origin 2000. Assist in the maintenance of a 64 node Beowulf Cluster.

SERVICE TO PROFESSION Member of the following organizations:
AIAA, Sigma Gamma Tau, Tau Beta Pi, Phi Beta Kappa

Summer 1994: Aerospace Student Ambassador
One of 24 Aerospace Engineering Students from American Universities
selected to work with Russian Engineers at the Universities of Moscow and
St. Petersburg.

ACTIVITIES Tau Beta Pi, Treasurer (1995-96), President (1996-97). Organized Tau
Beta Pi Family Adoption Program during Thanksgiving and Children
Adoption Program during Christmas

Sigma Gamma Tau, Engineering Student Council Representative (1995-
96), President (1996-97)

Kansas University Space Program, Secretary and Treasurer (1994-95),
President (1995-96). Currently preparing a NASA Shuttle payload to be
launched during the Fall of 1997

Society of Automotive Engineers (SAE). National Heavylift Airplane
Design Competition Participant, 1995

American Institute of Aeronautics and Astronautics (AIAA). 1993-present
Engineering Student Council. Member of the Executive Administration
Committee for the 1995-96 University of Kansas Engineering Exposition
Day

REFERENCES

Dr. Antony Jameson
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Stanford University
Stanford, CA 94305
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Dr. Ilan M. Kroo
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Dr. Juan J. Alonso
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