

Gianluca Puliti

Curriculum Vitae

Present Address

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Objective

Desire to lay a foundation for the understanding of the properties of nanofluids: starting from molecular dynamics simulations to eventually reach a continuum constitutive theory.

Education

University of Notre Dame – Notre Dame, IN – Expected graduation May 2012

- Philosophiae Doctor (Ph.D.) – Aerospace and Mechanical Engineering

University of Notre Dame – Notre Dame, IN – May 2010

- Master of Science – Mechanical Engineering

Embry-Riddle Aeronautical University – (ERAU) – Daytona Beach, FL – Summa Cum Laude – May 2006

- Bachelor of Science, Aerospace Engineering (Concentration in Aeronautics)
- Bachelor of Science, Engineering Physics

Work Experience

April 2003
to May 2006

Embry-Riddle Aeronautical University – Daytona Beach, FL

- Research Assistant – Engineering Physics Department – Supervisor: Dr. Chris Vuille
 - *Quantum Fields in General Relativity: Perturbative Solution of the Einstein-Klein-Gordon Equation*

June 2003
to August 2003

University of Notre Dame – Notre Dame, IN

- Research Assistant – Aerospace and Mechanical Engineering Department
- Supervisors: Dr. Samuel Paolucci and Dr. Joseph Powers
 - *Analytical and Computational Analysis of the Dynamics of Combustion*

June 2005
to Present

University of Notre Dame – Notre Dame, IN

- Research Assistant – Aerospace and Mechanical Engineering Department
- Supervisors: Dr. Samuel Paolucci, Dr. Mihir Sen and Dr. Daniel Gezelter
 - *Molecular Dynamics Simulation of Properties of Nanofluids*

Skills and Awards

- Fluent in Italian and English and good understanding of Spanish and French
- Member of Sigma Gamma Tau, Sigma Pi Sigma, Omicron Delta Kappa National Honor Societies
- Member of AIAA, SAE, MAA, APS, SPS, Albert Einstein Gesellschaft
- “Rosa d’Oro” for outstanding scholarship – August 2001 – Roseto Degli Abruzzi – Italy
- “Outstanding Academic Achievement and Leadership Award” – Student Activities – ERAU – Spring 2005
- Winner of the 2008 AIAA Foundation Graduate Award
- Center of Applied Mathematics Graduate Fellowship – University of Notre Dame – Academic Year 2009-10

Computer Skills

- *Software:* Microstation, Lotus 1-2-3, MS Word, MS Excel, MS Access, AutoCAD, Pro-E, CATIA, MSC NASTRAN, NE NASTRAN, Corel Draw, Illustrator, Photoshop, Dreamweaver, Windows, Linux.
- *Languages:* UNIX, Pascal, Basic, C, C++, HTML, CSS, IDL, MFX, DL-POLY, OpenMD, LaTeX, Maple, Matlab, Simulink, Mathematica, Code V, FORTRAN 77/90.

Latest Conference

2010 Midwest Thermodynamics and Statistical Mechanics Conference – June 2, 2010 – Notre Dame, IN

- *Molecular Dynamic Study of Nanofluids*