Name: Dr. Lo Céline

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Research interests:

1. Turbulence modeling

2. Theoretical and Computational Fluid Dynamics

Education:

(1) Completed Ph.D. Thesis in Fluides Réactifs and Turbulence Team, Institut Jean Le Rond d'Alembert, Université Pierre et Marie Curie (Paris, France), September 2011

- Thesis Topic : Near-wall second-moment turbulence closure based on Direct Numerical Simulation analysis
- Advisor: Professor I. Vallet
- Area of study: Reynolds-Averaged Navier-Stokes turbulence modeling

(2) M.E., Department of Mechanical Engineering, Université Pierre et Marie Curie (Paris, France), June 2007

- Thesis Topic: Modeling of the redistribution and dissipation tensor in the Reynolds stress transport equations
- Advisor: Professor I. Vallet

(3) B.E., Department of Mechanical Engineering, Université Claude Bernard Lyon 1 (Villeurbanne, France), June 2005

Employment:

1. Superior Technician intern from April to June 2004 at the Centre Scientifique et Technique du Bâtiment (Marne-La-Vallée, France)
2. Superior Technician from July to August 2004 at the Centre Scientifique et Technique du Bâtiment (Marne-La-Vallée, France)

Publication List

[1] Journal Publications :

1. Tensorial representations of Reynolds stress pressure-strain Redistribution, G. A. Gerolymos, C. Lo, and I. Vallet, Journal of Applied Mechanics, vol. 79 (4), (2012)

2. Term-by-term analysis of second-moment closures, G. A. Gerolymos, C. Lo, I. Vallet and B. A. Younis, AIAA Journal, vol. 50 (12), (2012)

[2]Conference Publications :

1. Near-wall second-moment closure based on DNS analysis of pressure correlations, G. A. Gerolymos, C. Lo, I. Vallet and B. A. Younis, **41st AIAA Fluid Dynamics conference and Exhibit**, Honolulu, (Hi, USA), 2011

2. Velocity/pressure-gradient correlation modeling for improved prediction of reattachment and relation, C. Lo, I. Vallet and B. A. Younis, **4th Interdisciplinary Turbulence Initiative conference**, Bertinoro, Italy, 2010

3. Wall-Effects on Pressure Fluctuations in Quasi-incompressible Turbulent Plane Channel Flow, G. A. Gerolymos, C. Lo, D. Sénéchal, I. Vallet and B. A. Younis, **7th ERCOFTAC Symposium on Engineering Turbulence Modelling and Measurements**, Limassol, Cyprus, 2008

4. Modelling of turbulent scalar fluxes in heated compressible flows, G. A. Gerolymos, C. Lo, I. Vallet and B. A. Younis **, 61st Annual Meeting of the APS Division of Fluid Dynamics**, San Antonio, Texas, 2008