Mokbel Karam

Graduate Research Assistant
Department of Chemical Engineering
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Research Interests

Low-Mach-number flows, Pressure Projection Methods, Modified Equations, Machine Learning, Computational Fluid Dynamics, Simulation Science .

Education

- 2017– Ph.D. Candidate / University of Utah, Salt Lake City Utah
- 2013–17 Bachelor in Mechanical Engineering / Notre Dame University, Zouk Mosbeh, Lebanon
 - Graduated with a GPA of 3.89, Highest distinction.
 - Dean's List for all semesters
 - Scholarship: 75% Scholarship, all semesters

Skills

Communication Skills:

- Leadership skills
 - President of the American Society of Mechanical Engineers student section at NDU-North Lebanon Campus in 2013-2014.
- Languages
 - English (Good)
 - French (Fair)
 - Arabic (Native Language)

Computer Skills:

Python, Sympy (symbolic library Python), Sci-kit Learn, Tensorflow, C++, object oriented programming, Matlab, Web app development using Dash Python, Latex.

Publications

Conference Papers

2018 Tony Saad, Mokbel Karam, and James C. Sutherland. "An Explicit Variable-Density Projection Method for Low-Mach Reacting Flows on Structured Uniform Grids", 2018 Fluid Dynamics Conference, AIAA AVIATION Forum, (AIAA 2018-4266)

Presentations

2018 **Mokbel Karam**, Fady Najjar, Ming Jiang, James Sutherland, and Tony Saad. "Applying Machine Learning to the Sedov-von Neumann-Taylor Blast Wave", 2018 Rocky Mountain Fluid Mechanics (RMFM) Research Symposium.

Experience

2018	Gained 10 weeks of experience in Machine Learning at Lawrence Livermore National Laboratory, Livermore CA , from June 4th to August 10th.
2016	Gained one month of experience in maintenance of kilns at a cement plant, August 2016
2016	Gained one month of experience in maintenance of refrigeration system at a poultry company, July 2016
-	Have been tutoring Math and physics lessons for high school students.

Reference

Prof. Tony Saad

Assistant Professor

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Prof. James C. Sutherland

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