

# LakshmanAnumolu

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## ABOUT ME

Hi this is about me

## PUBLICATIONS

[Gradient augmented level set method for phase change simulations](#), Lakshman Anumolu, Mario F. Trujillo, Journal of Computational Physics, 353:377-406, 2018.

[Direct Numerical Simulations for Two-Phase Flows with Phase Change](#), Mario F. Trujillo, Lakshman Anumolu, Douglas Ryddner, volume 3 of Encyclopedia of Two-Phase Heat Transfer and Flow, World Scientific, 2018.

[The distortion of the level set gradient under advection](#), Mario F. Trujillo, Lakshman Anumolu, Douglas Ryddner, Journal of Computational Physics, 334:81-101, 2017.

[Numerical Simulation of Droplet Train and Free Surface Jet Impingement](#), Steven R. Lewis, Lakshman Anumolu, Mario F. Trujillo, International Journal of Heat and Fluid Flow, 44:610-623, 2013.

[Gradient Augmented Reinitialization Scheme for the Level Set Method](#), Lakshman Anumolu, Mario F. Trujillo, International Journal of Numerical Methods in Fluids, 73(12):1011-1041, 2013.

[Evaluating the performance of the two-phase flow solver interFoam](#), Suraj S. Deshpande, Lakshman Anumolu, Mario F. Trujillo, Computational Science & Discovery, 5:014016: 1-36, 2012.

Local, Higher Order Accurate, Level Set Redistancing Methods, Lakshman Anumolu, Masters thesis, Madison WI, 2011.

## PROJECTS

### Framework to Photorealistic Render Computational Fluid Dynamics Results

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2020-present

- Scene templates to process CFD results photorealistically

### MeshIO

with [Pradeep Garigipati](//pradeepgarigipati.com)

2015-present

- Read and write STL file format

### Basic Model Viewer

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2014-present

- Visualizes 3D surface mesh

### Weak Formulation of Gradient Augmented Level Set Method to Stephan Type Problems

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2012-2012

- 3D Crystal growth simulated using PhysBAM

### Simulation of Smoke in OpenFOAM Framework

with [Imaduddin Ahmed](https://multiphaseflow.erc.wisc.edu/people/)

2012-2012

- Smoke simulation using OpenFOAM

**Screensaver using ModernGL**

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2013-2013

- Screensaver in ModernGL

**Desktop, web apps, games built while learning app development**

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2013-2014

- Facebook friend sentiment analysis
- Facebook speech-to-text enabled chat
- Air hockey