

LAKSHMAN ANUMOLU  
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## ABOUT ME

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Hi this is about me

## PUBLICATIONS

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\*\*Lakshman Anumolu\*\*, Mario F. Trujillo. Gradient augmented level set method for phase change simulations. *Journal of Computational Physics*, 353:377-406, 2018.

Mario F. Trujillo, \*\*Lakshman Anumolu\*\*, Douglas Ryddner. *Direct Numerical Simulations For Two-Phase Flows With Phase Change*, volume 3 of *Encyclopedia of Two-Phase Heat Transfer and Flow*. World Scientific, 2018.

Mario F. Trujillo, \*\*Lakshman Anumolu\*\*, Douglas Ryddner. The distortion of the level set gradient under advection. *Journal of Computational Physics*, 334:81-101, 2017.

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

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

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

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

## PROJECTS

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### 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