

# Rohit Mishra

## ABOUT ME

Hi! I am Rohit, a PhD candidate currently working at the [Computational Thermo-Fluids Laboratory (CTF lab)], [Texas A&M University] as a Research Assistant. I am working under the supervision of [Dr. Dorrin Jarrahbashi].

**\*\*My interests:\*\*** \* Physics based modeling and simulation \* Machine learning for combustion simulation \* Turbulence and multi-phase flow modeling \* Supercritical/transcritical flows \* High performance computing \* 3D rendering

[Texas A&M University]: <https://www.tamu.edu/> [Dr. Dorrin Jarrahbashi]: <https://engineering.tamu.edu/mechanical/pdorrin.html> [Computational Thermo-Fluids Laboratory (CTF lab)]: <https://cfde.engr.tamu.edu/>

## EDUCATION

**PhD Mechanical Engineering**  
Texas A&M University

GPA: 4.00/4

**M.S. Mechanical Engineering**  
Texas A&M

## EXPERIENCE

**Research Assistant**

2019-Present

*Texas A&M University, College, TX*

- Sample text written as part of the demo for profileio. Sample text written as part of the demo for profileio
- This is the sample text written for the demo of profileio

## PATENTS

**Physics based simulations:** Level set method I for artistic simulations (9999998). Level set method II for artistic simulations (9999999).

**Experimental physics:** Novel PIV method to quantify velocity of fluid flow through swirl atomizer (9999997)

## PROJECTS

**Degassing in diesel injector nozzles**  
with Dorrin Jarrahbashi

2020-Present

- Website and resume generator via YAML

## PUBLICATIONS

Made-up title of an article for ProfileIO' demo, \*\*Rohit Mishra\*\*, Author II, Journal of Computational Physics, 353:377-406, 2018.

## VOCATIONAL TRAINING

### Trainee

2014

*Animation Studios*

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## SKILLS

**Programming Languages:** Fluent: C++, C, Go. Experienced: Python, JavaScript, PHP

**Libraries:** Eigen, NumPy, MPI, etc.

**Tools:** CMake, gdb, valgrind, etc.