



Melissa Adrian

Postdoctoral Fellow

Mechanical Engineering, Purdue University
West Lafayette, IN (USA)



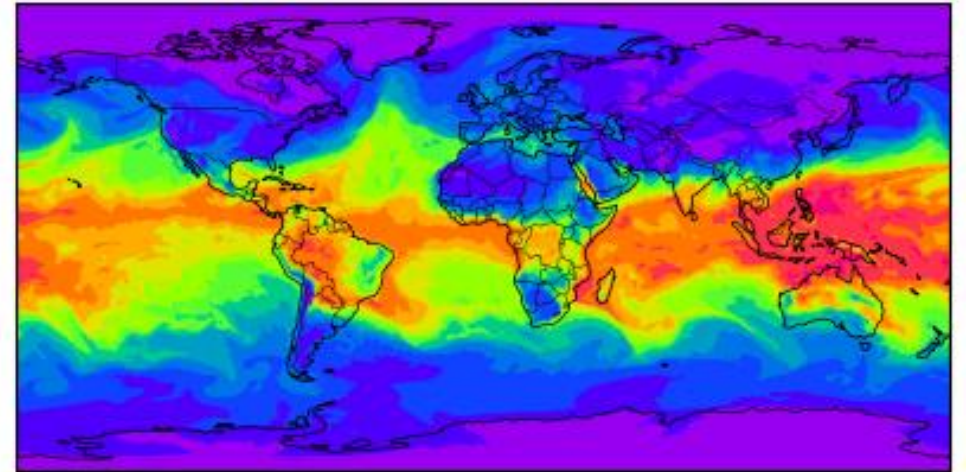
Scientific Field | Mathematics & Earth Science, Environmental Sciences

Research Interests

- Machine Learning
- Data Assimilation
- Uncertainty Quantification

Personal Interests

- Softball
- Knitting/Crocheting





Sylvia Amihere

Postdoctoral Researcher

Department of Mathematics & Statistics

University of Maryland Baltimore County, MD | USA



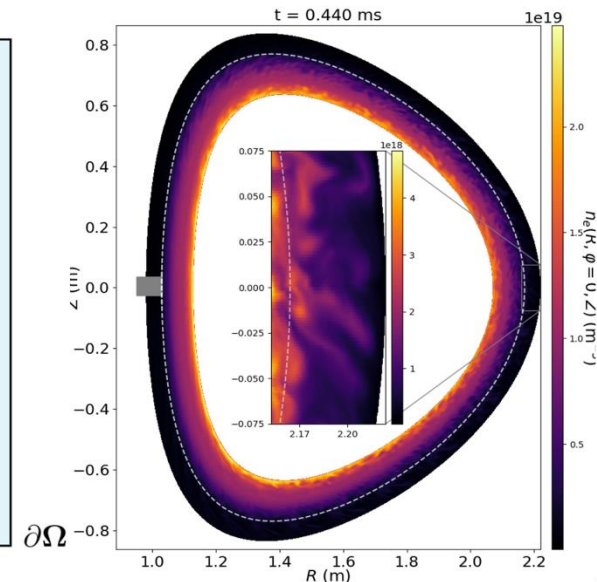
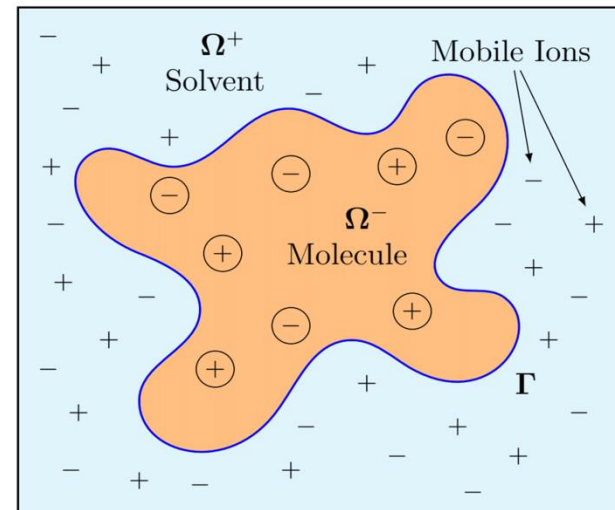
Scientific Field | Mathematics

Research Interests

- ▶ Time integration schemes for multiphysics problems
- ▶ Poisson–Boltzmann solvers
- ▶ High-performance computing (HPC)

Personal Interests

- ▶ Taking long walks
- ▶ Reading
- ▶ Fixing jigsaw puzzles





Måns Andersson

Postdoctoral Associate

Department of Mathematics, Virginia Tech
Blacksburg, Virginia, USA



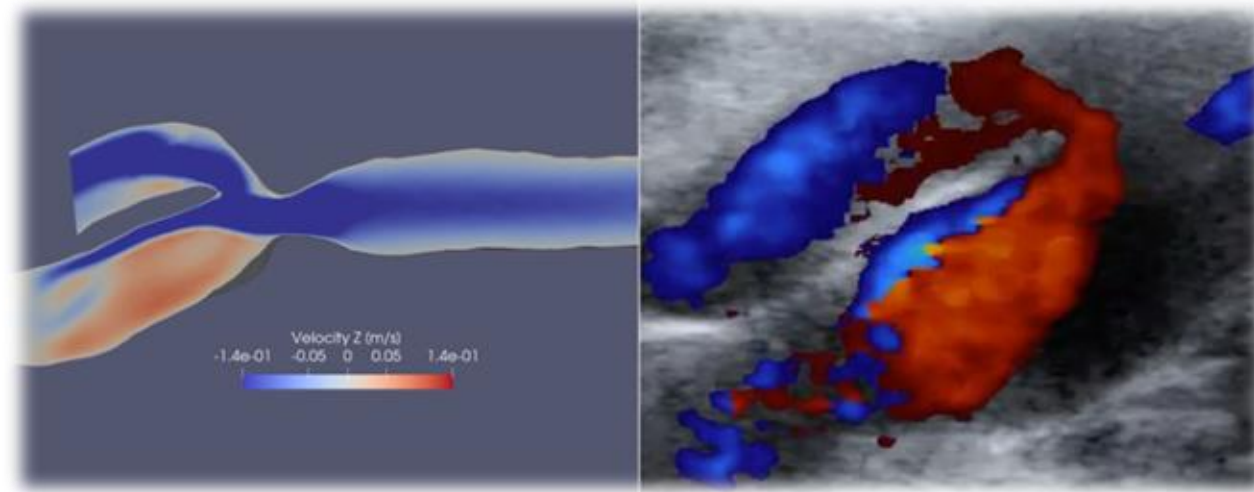
Scientific Field | Computer Science, Mathematics

Research Interests

- Interdisciplinary Scientific Computing & Co-design
- Parallel Computing & Performance Portability
- Iterative Solvers and Low-rank Algorithms

Personal Interests

- Hiking
- Painting





Thiago Assumpção

Postdoctoral Research Associate
Center for Gravitation, Cosmology & Astrophysics, University
of Wisconsin-Milwaukee
Milwaukee, WI (USA)



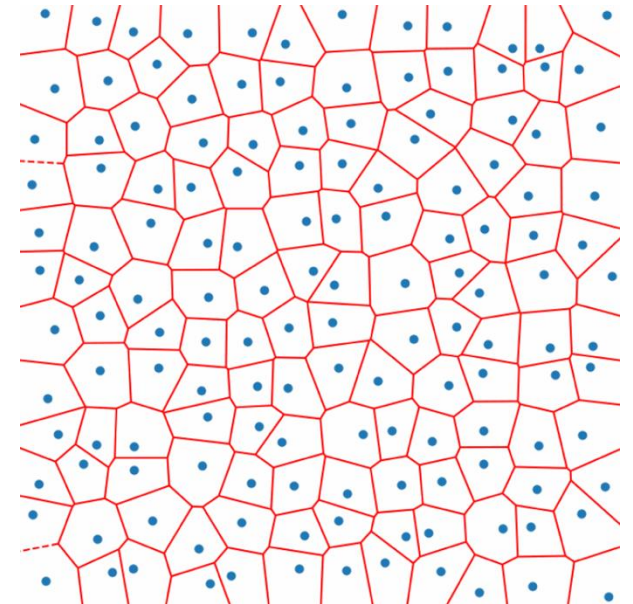
Scientific Field | Physics, Astrophysics

Research Interests

- Numerical solution of partial differential equations
- Computational Astrophysics
- Physics-Informed Neural Networks

Personal Interests

- Soccer
- Music





Jamie Bamber

Postdoctoral Research Assistant

Department of Physics, University of Illinois
Urbana-Champaign, IL (USA)



UNIVERSITY OF
ILLINOIS
URBANA-CHAMPAIGN

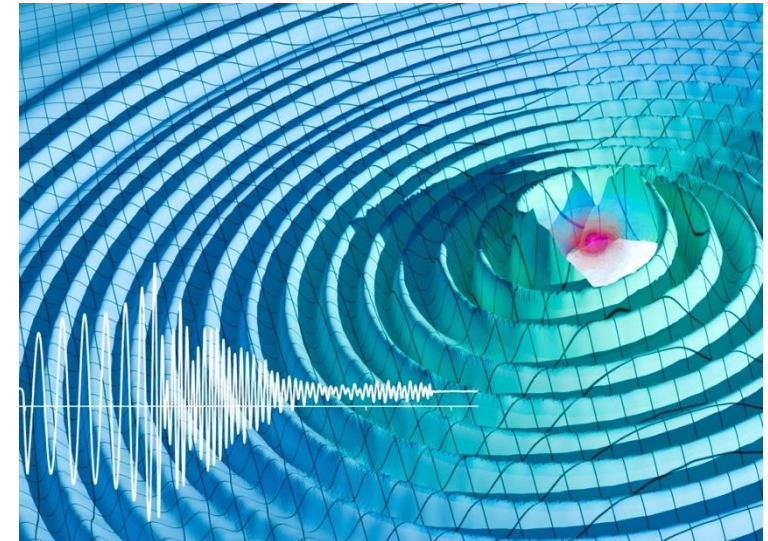
Scientific Field | Physics, Astrophysics

Research Interests

- Numerical relativity
- Strong gravity and compact objects
- Gravitational waves

Personal Interests

- Art, birdwatching, D&D





Nitish, Baradwaj

Postdoctoral Research Associate

Viterbi School of Engineering, University of Southern California
Los Angeles, CA (USA)



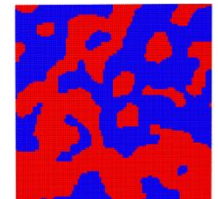
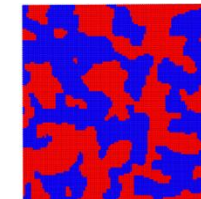
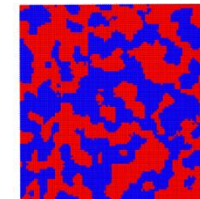
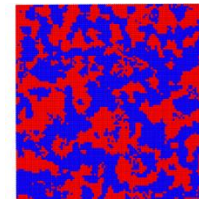
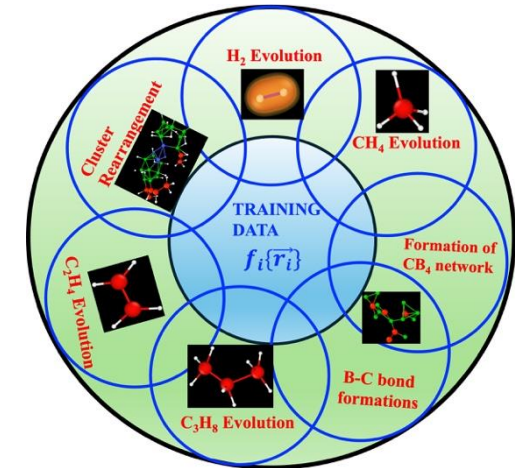
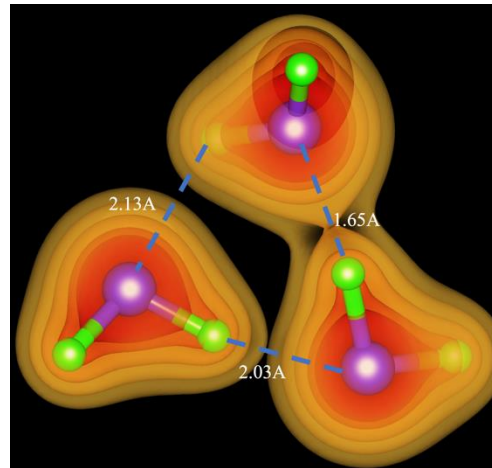
Scientific Field | Materials Science, Computational

Research Interests

- ML - Based Molecular Dynamics
- Quantum Molecular Dynamics
- 2D Materials

Personal Interests

- Astrophotography and Stargazing
- Music, I play the Guitar
- Books, mostly historical accounts





Michael Boateng

Ph.D. Student

Electrical and Computer Engineering, Georgia Tech
Atlanta, GA (USA)



Scientific Field | Energy Technologies, Energy Grid

Research Interests

- Power Systems Transmission and Optimal Power Flow
- Machine Learning Applications
- Optimization Techniques and its Applications

Personal Interests

- Watching and analyzing movies and tv shows
- Listening to all kinds of music genres





James Burton

Ph.D. Student

Department of Mathematical Sciences, University of Arkansas
Fayetteville, AR (USA)



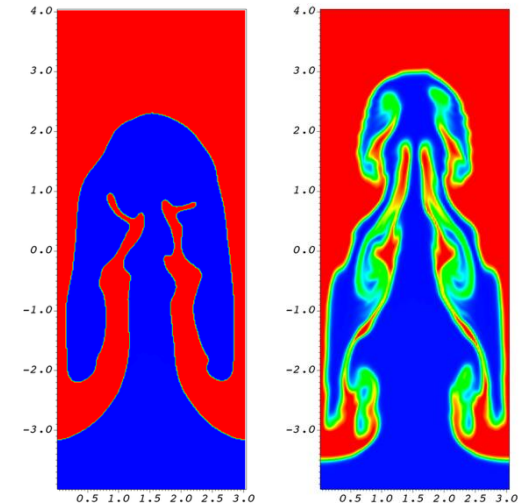
Scientific Field | Mathematics

Research Interests

- Computational Fluid Dynamics
- Adaptive Mesh Refinement
- Numerical Methods for Scientific Computing

Personal Interests

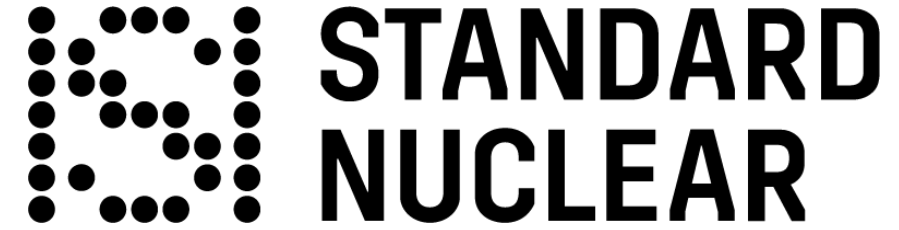
- Cycling
- Bikepacking/hiking





Erdem Caliskan

Structural Analysis Engineer
Standard Nuclear
Oak Ridge, TN (USA)



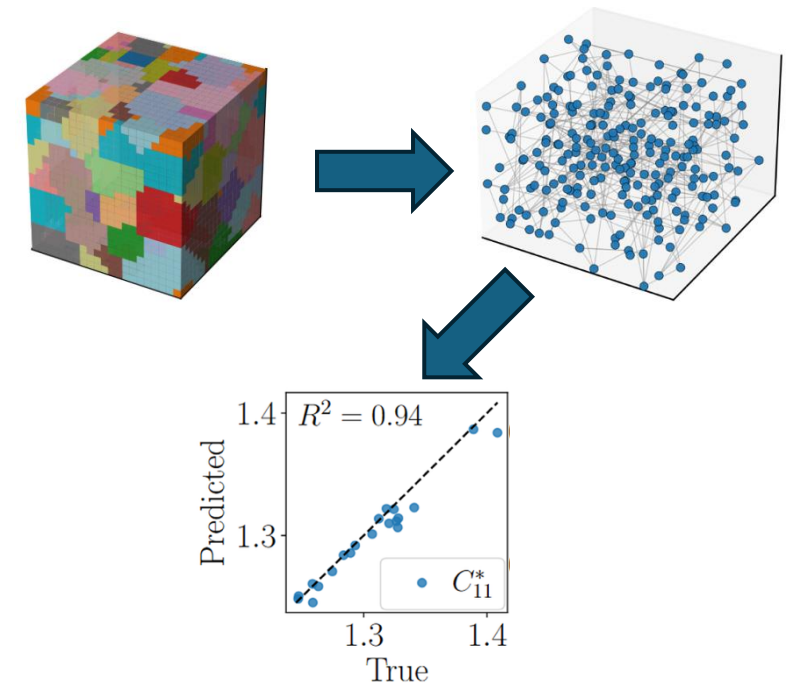
Scientific Field | Engineering, Material Response

Research Interests

- Computational Mechanics
- Graph Neural Networks
- Homogenization

Personal Interests

- Chess
- Hiking





Tyler Cascalho Cox

Ph.D. Student

Aerospace Engineering, Texas A&M
College Station, Texas (USA)



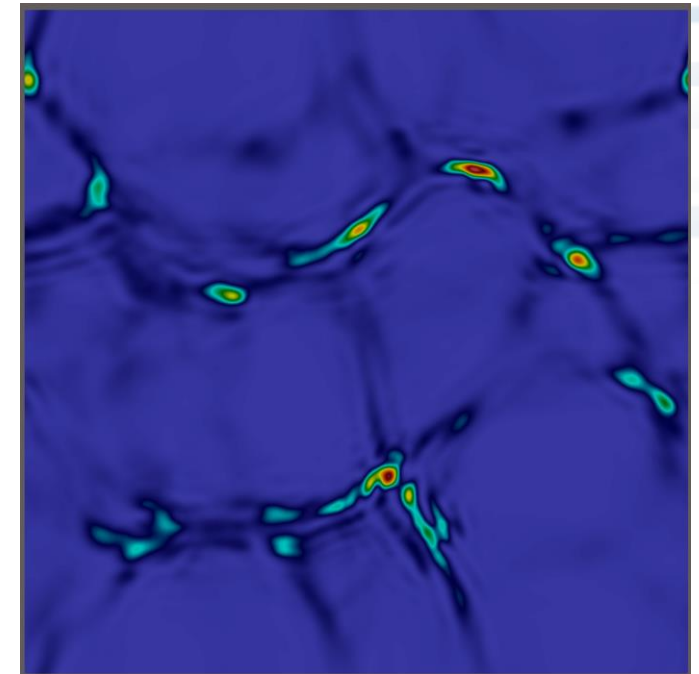
- **Scientific Field** | Engineering, Fluids and Turbulence

Research Interests

- Turbulence
- Optics
- Computational Fluid Dynamics

Personal Interests

- Skiing
- White water rafting





Jamie Cook

Computational Engineer
VMS, ANL
Chicago, IL

Data Scientist
Outer Loop Consulting
Brisbane, Australia



Scientific Field | Computer Science

Research Interests

- Agent Based Simulation
- Transport Modelling
- Traffic Flow / Route Choice

Personal Interests

- Riding Bikes
- Racing Bikes





Matheus Costa

Ph.D. Student

Institute of Informatics, Federal University of Rio Grande do Sul
Porto Alegre, Rio Grande do Sul (Brazil)



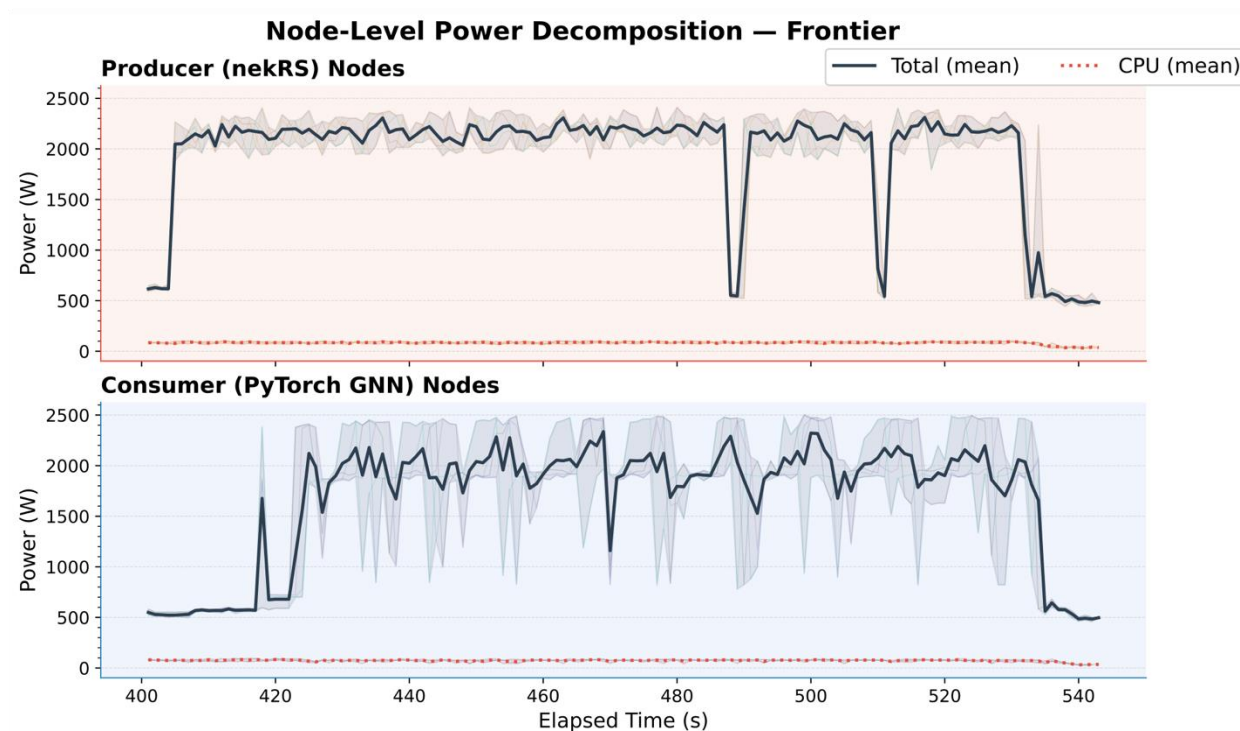
Scientific Field | Computer Science

Research Interests

- High-Performance Computing
- Energy Efficiency
- Coupled Workflows (Visualization/AI)

Personal Interests

- Running
- Coffee





Eya Dammak

Ph.D. Student

Physics at High Intensity, CEA
Saclay (FRANCE)



Scientific Field | Physics, Plasma Physics

Research Interests

- Laser plasma acceleration
- Particle-in-cell codes
- High performance computing

Personal Interests

- Gym
- Psychology





Gargi Dashora

Ph.D. Candidate in Mechanical and Aerospace Engineering,
Florida State University, Tallahassee, FL (USA)

DEPARTMENT OF
**MECHANICAL
& AEROSPACE**
ENGINEERING



FAMU-FSU
College of Engineering

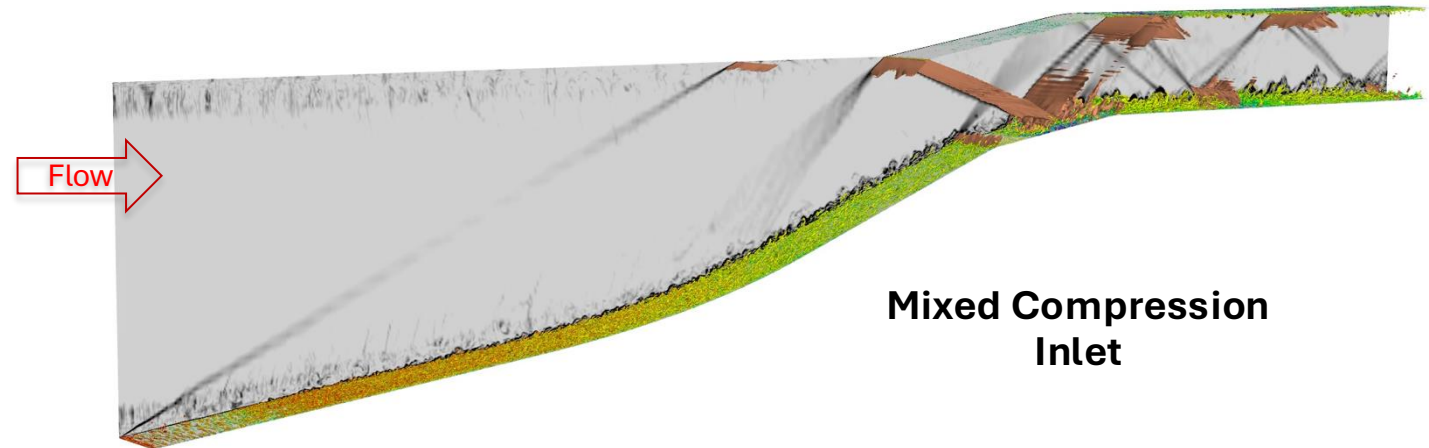
Scientific Field | Engineering, Aerodynamics

Research Interests

- Turbulence and High-Speed Aerodynamics
- High Performance Computing

Personal Interests

- Hiking
- Playing Violin





Jake DeRiseis

Ph.D. Student

Materials Science and Engineering, Northwestern University
Evanston, IL (USA)



Northwestern
University

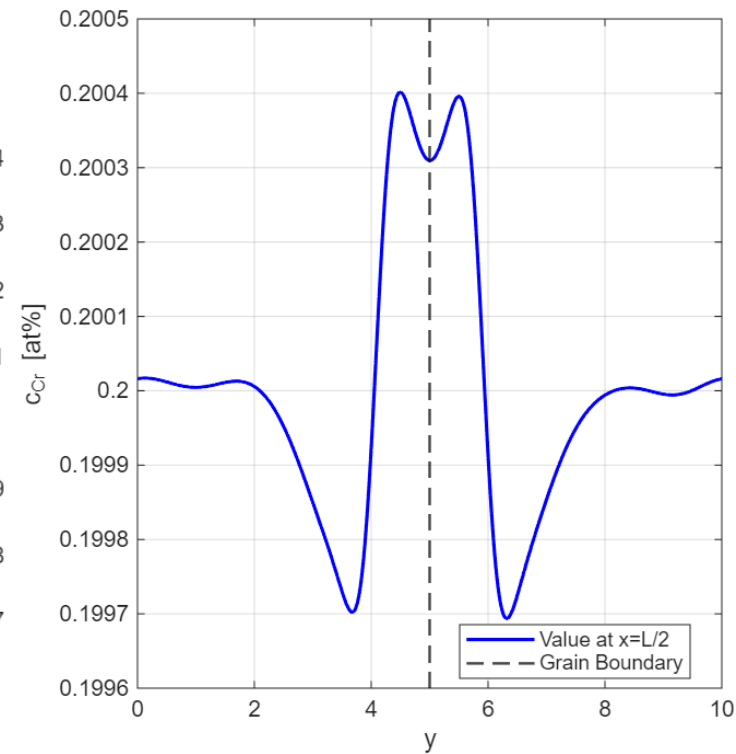
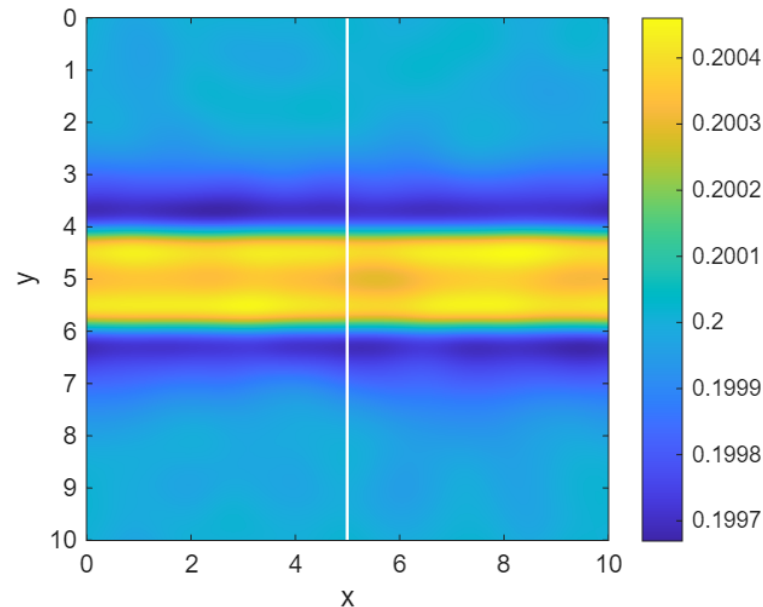
Scientific Field | Materials Science, Condensed Matter and
Materials Physics

Research Interests

- Materials for Extreme Environments
- Multi-scale Materials Modelling
- High Performance Computing

Personal Interests

- Playing Saxophone
- Rock Climbing





Xinju (Spencer) Dong

Postdoc Researcher

Advanced Computing for Chemistry & Materials Group, NCCS Division

Oak Ridge, TN (USA)



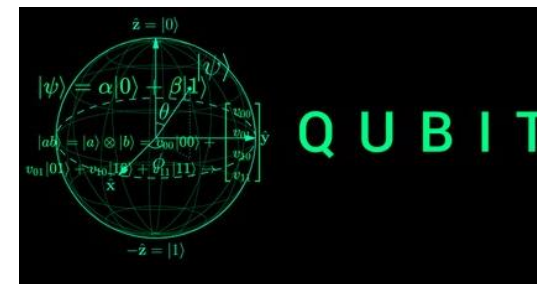
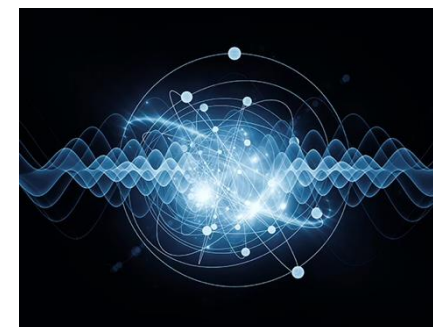
Scientific Field | Chemistry, Quantum Chemistry

Research Interests

- Non-orthogonal Configuration Interactions (NOCI)
- Quantum Computing
- High-Performance Computing

Personal Interests

- Tennis
- Drawing





Maisy Dunlavy

Ph.D. Student

CS, University of Illinois Chicago
Chicago, Illinois



Scientific Field | Computer Science

Research Interests

- Software-Visible Fault Modeling for GPU- Accelerated Systems
- Cross-Vendor GPU Reliability Analysis
- Anomaly Detection for High Energy Physics Data Quality

Personal Interests

- Knitting/Crocheting
- Frisbee





Abrar Faiyad

Graduate Intern / Graduate Research Assistant
Computational Science, ANL /
Mechanical Engineering, University of California Merced
Lemont, IL (USA) / Merced, CA (USA)



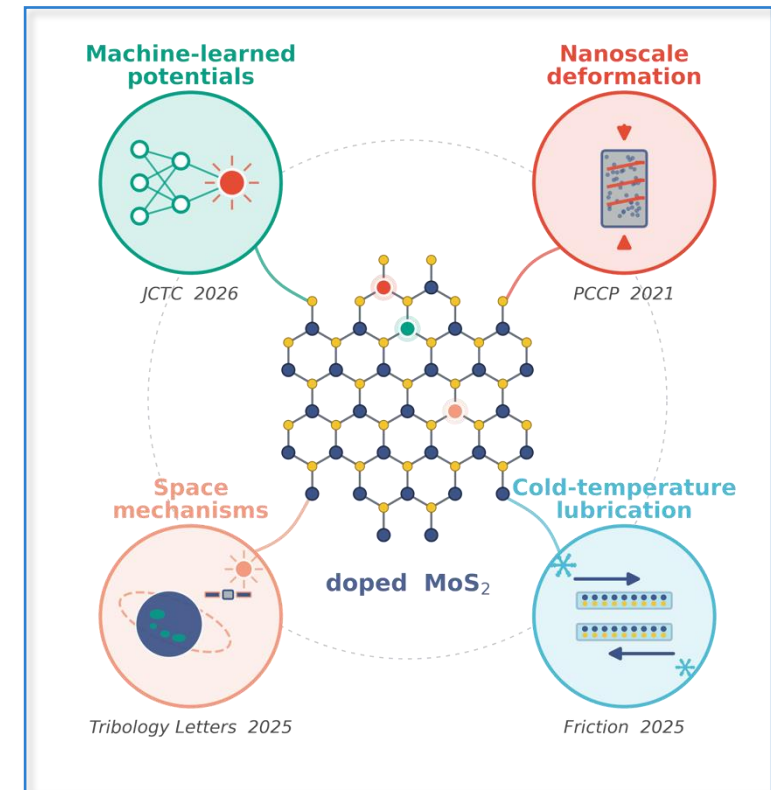
Scientific Field | Materials Science, Nanomechanics (Computational)

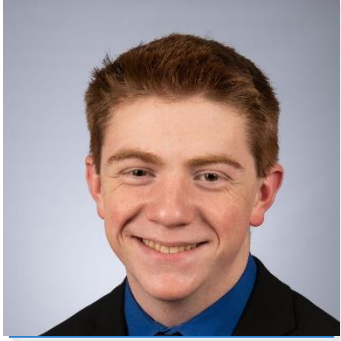
Research Interests

- Machine Learning Interatomic Potentials for Molecular Dynamics
- High Throughput Automated Simulations
- Property Prediction and Tuning

Personal Interests

- Automation
- Traveling





Ian Freeman

PhD Student

Computational Math, Science, and Engineering,
Michigan State University, East Lansing, MI



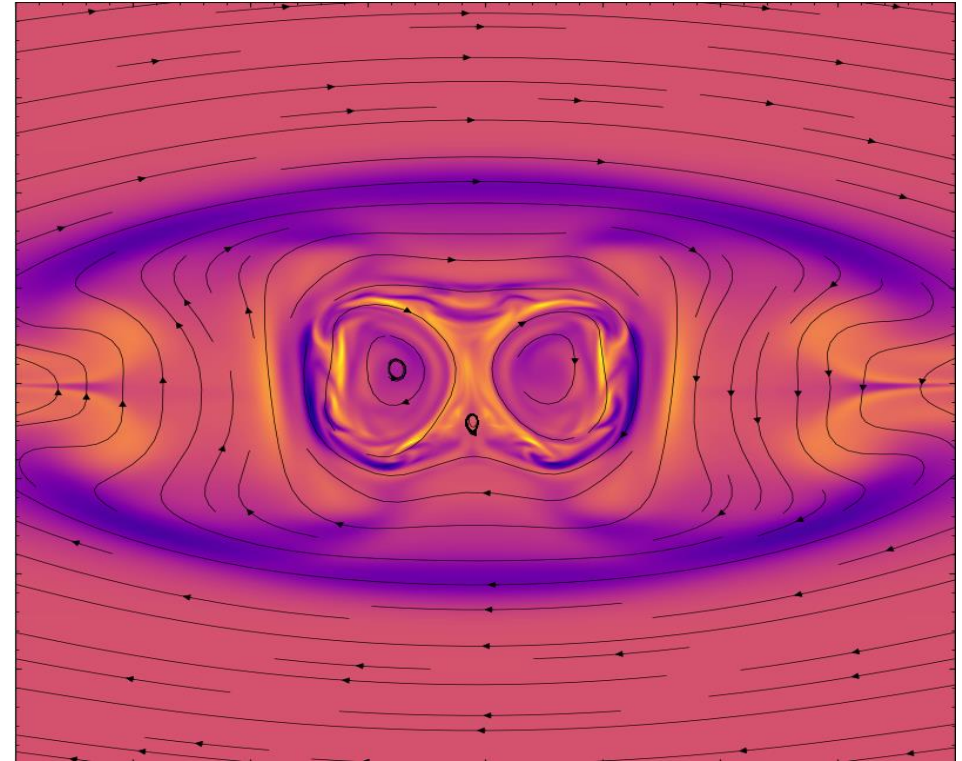
Scientific Field | Physics, Plasma Physics

Research Interests

- Modeling Laboratory Plasmas
- High Energy Density Physics
- Fusion Systems

Personal Interests

- Rock Climbing
- Music





Alexander Gardner

Ph.D. Student

Mechanical Engineering, The City College of New York
New York, NY



The City College
of New York

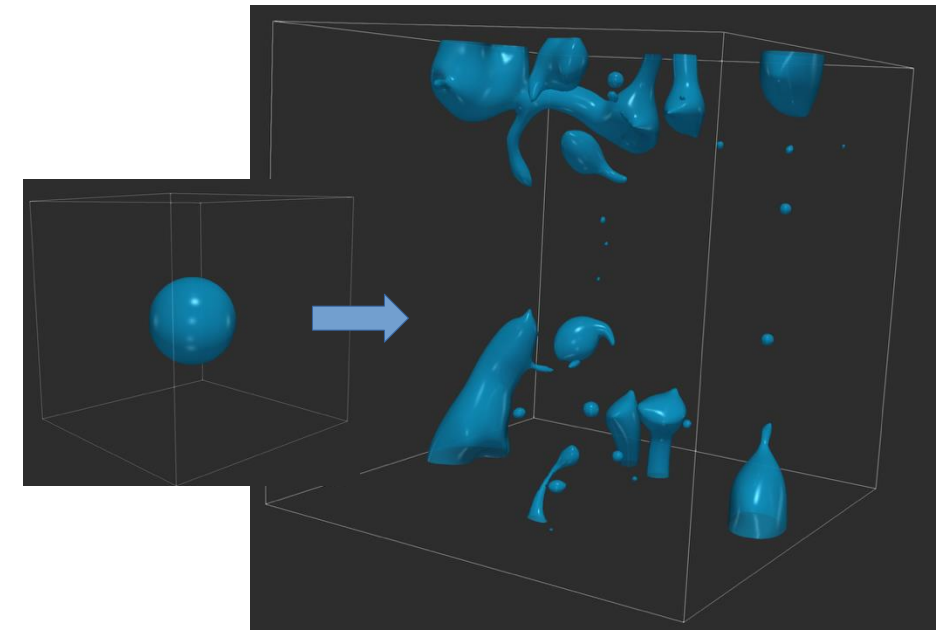
Scientific Field | Engineering, Fluids & Turbulence

Research Interests

- Multiphase Flow Simulation, lattice Boltzmann method
- Parallel scaling on heterogeneous HPC architectures
- Thermal-hydraulic simulation for advanced nuclear reactor coolant flow

Personal Interests

- Sports (football, basketball)
- Reading (fantasy, sci-fi)



Isocontour of single droplet breakup in
a decaying Taylor-Green vortex



Ozan Gökdemir

Postdoctoral Appointee

Data Science and Learning Division, Argonne National Lab
Lemont, IL, USA



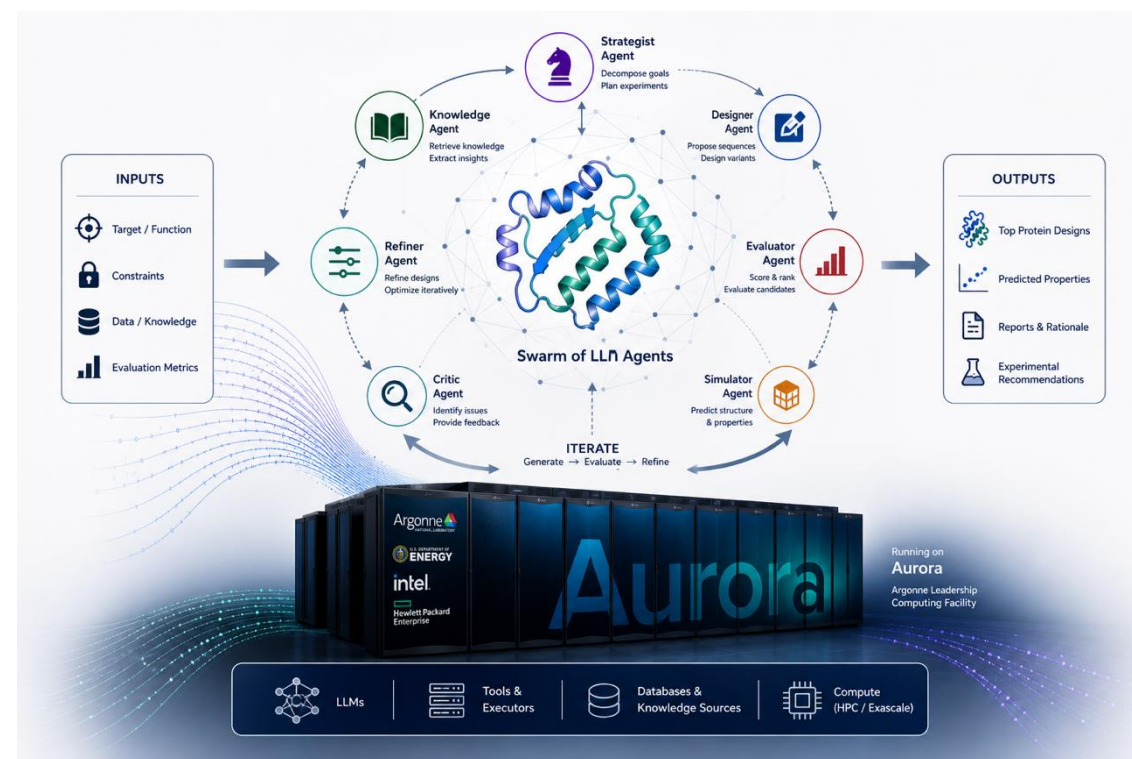
Scientific Field | Computer Science

Research Interests

- HPC-scale Information Retrieval
- LLM Agent Swarms for Scientific Discovery
- World Models

Personal Interests

- Aviation (studying to get a pilot license)
- Motorcycles (choppers, specifically)





Shubhang Goswami

Ph.D. Student

Physics, University of Illinois at Urbana-Champaign
Champaign, IL (USA)



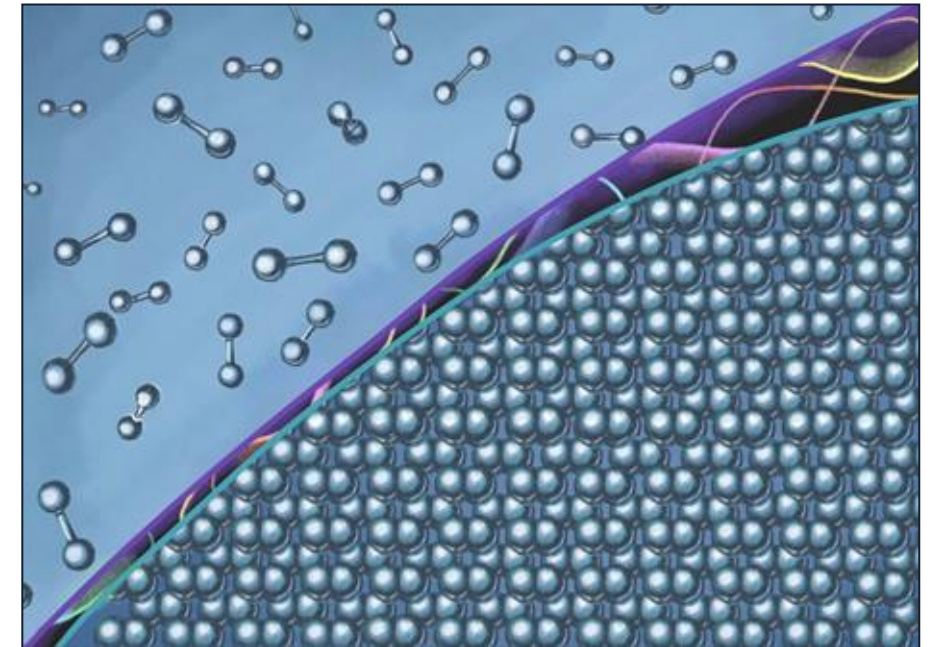
Scientific Field | Physics, Condensed Matter Physics

Research Interests

- High Pressure Hydrogen
- Machine-Learning for physics
- Statistical physics

Personal Interests

- Cooking
- Puns & Poetry





Taylor Grubbs

Ph.D. Candidate

Department of Nuclear Engineering, North Carolina State University

Raleigh, NC, USA



Scientific Field | Nuclear Energy

Research Interests

- Interface-Resolved Multiphase Flow Simulation
- Finite-Element Method Development
- Conversion of CPU/MPI-based codes to CUDA/GPU codes

Personal Interests

- Logical Circuit Design
- Reading (Fantasy/Sci-fi/Geopolitics)





Christian Gütschow

Senior Research Software Engineer
Centre for Advanced Research Computing, UCL
London (UK)



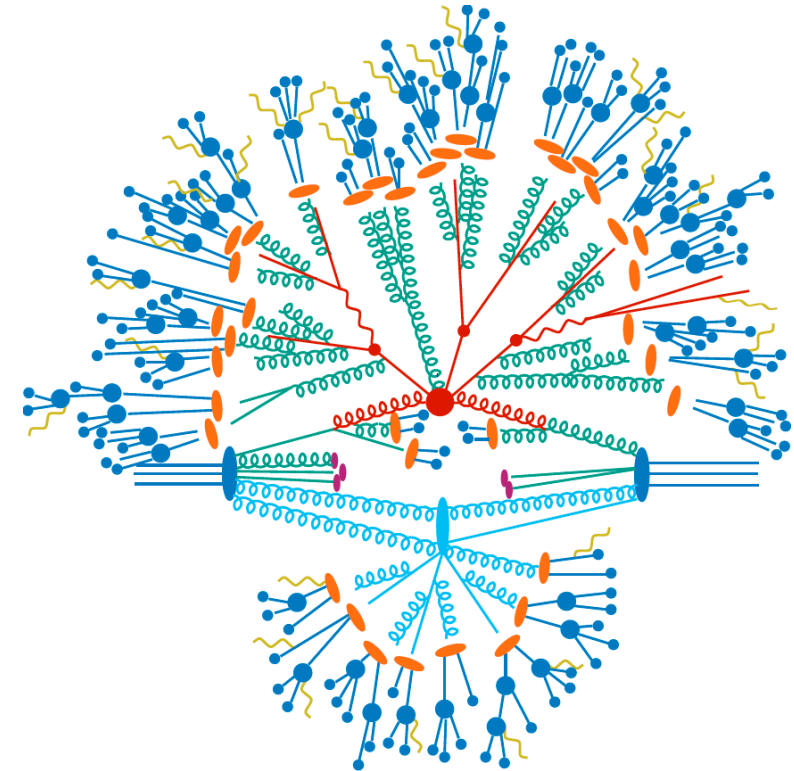
Scientific Field | Particle Physics

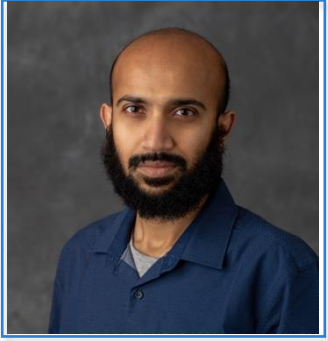
Research Interests

- High-precision collider phenomenology
- Scalable and sustainable scientific software
- Maximizing the scientific value of complex datasets

Personal Interests

- Hiking & travel
- Benchmarking local food and beer





Md Taufique Hussain

Postdoctoral Fellow

Computer Science, Wake Forest University
Winston-Salem, NC (USA)



Scientific Field | Computer Science

Research Interests

- Combinatorial scientific computing
- Large-scale sparse & randomized algorithms
- Scalable HPC for science at extreme scale

Personal Interests

- Running
- Traveling

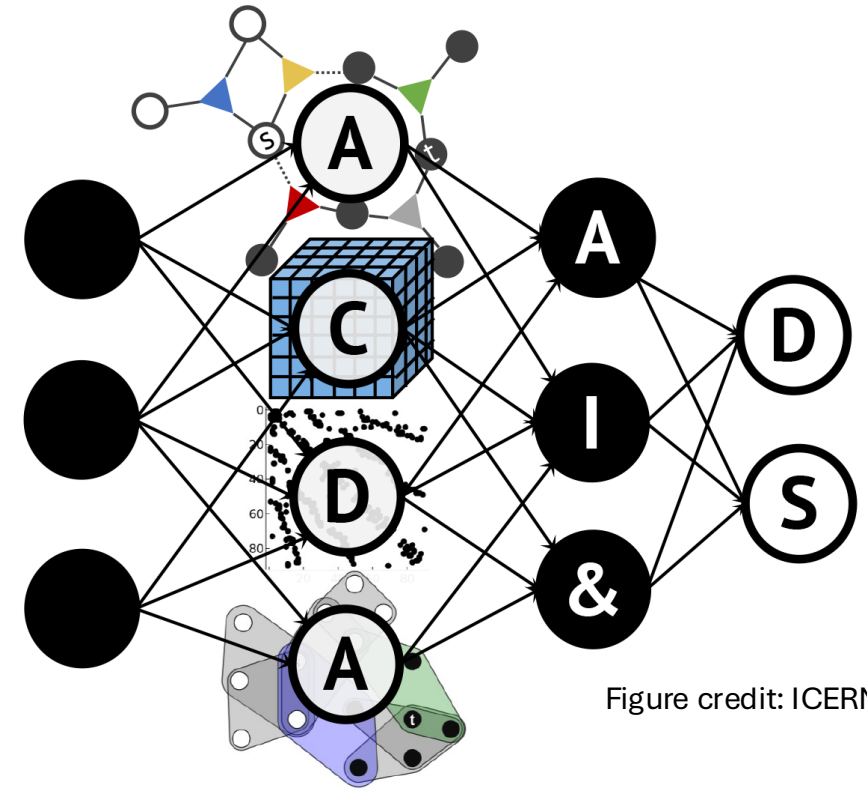


Figure credit: ICERM



Christina Hymer

Ph.D. Student
Mechanical Engineering, University of Kansas
Lawrence, Kansas (USA)



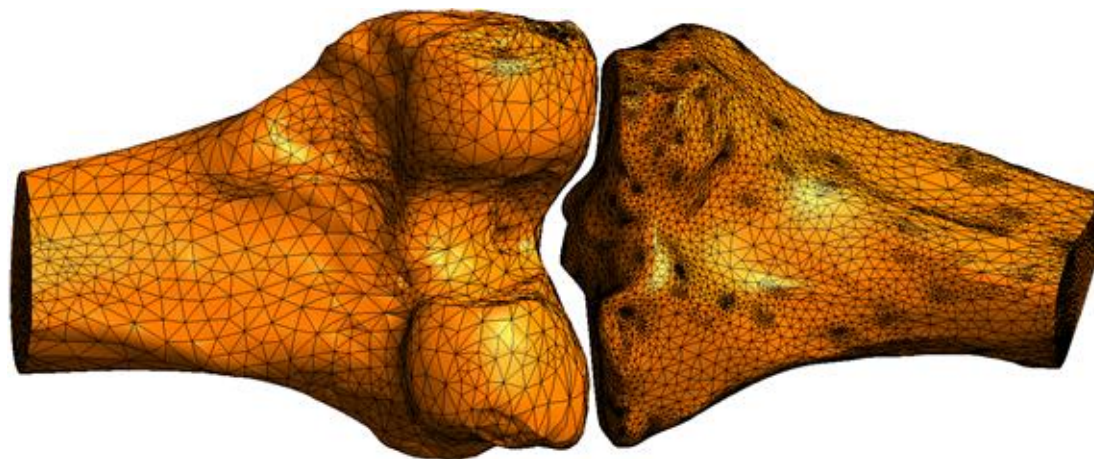
Scientific Field | Mathematics / Computer Science

Research Interests

- High-order tetrahedral mesh generation
- Parallel scientific computing & HPC algorithms
- Numerical linear algebra

Personal Interests

- Reading (sci-fi, thriller, mystery)
- Sewing





Alexey Izmailov

Ph.D. Student

Applied Mathematics, Brown University

Providence, RI (USA)



BROWN

Scientific Field | Mathematics, Computer Science

Research Interests

- Finite Element Analysis
- Computational Science
- Clean Energy Tech

Personal Interests

- Books (fiction & philosophy)
- Weightlifting
- Hiking





Sahaj Jain

PhD student

Mechanical Engineering, Johns Hopkins University
Baltimore, Maryland (USA)



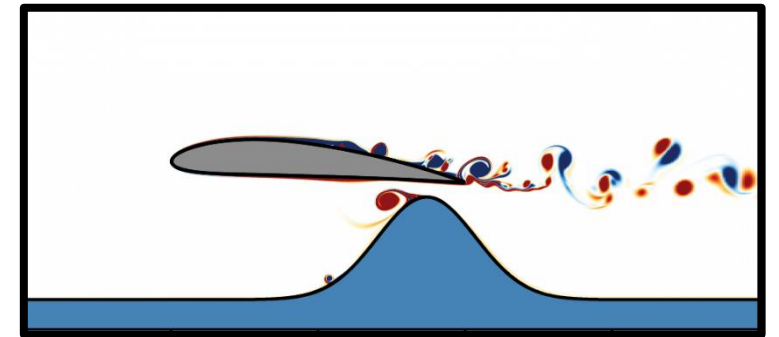
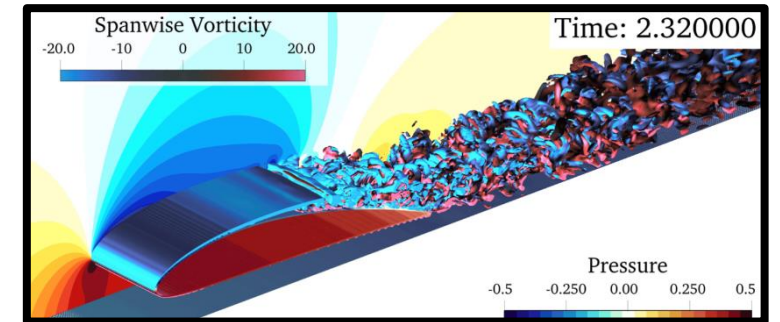
Scientific Field | Engineering, Aerodynamics, Fluid-Structure Interaction

Research Interests

- Computational Fluid Dynamics
- High Performance Computing
- Incompressible Flows

Personal Interests

- Crocheting
- Swimming





Kavin Kabilan

Ph.D. Student

Mechanical Engineering, Georgia Institute of Technology
Atlanta, GA (USA)



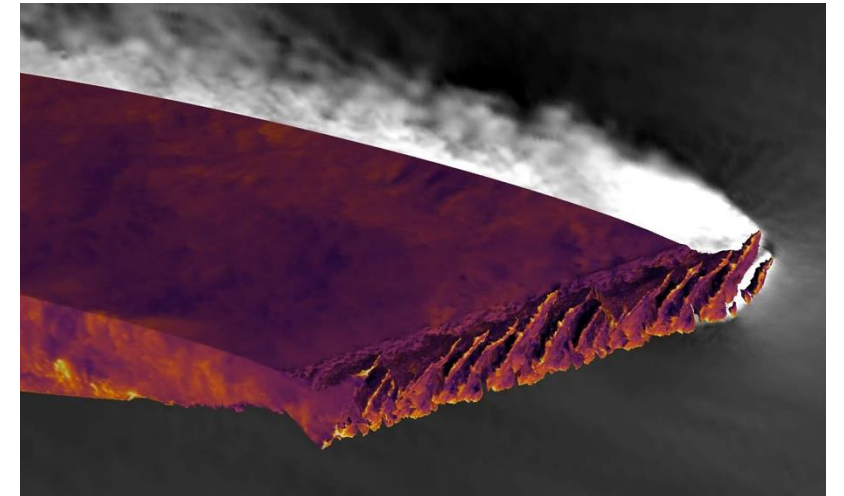
Scientific Field | Engineering, Fluids and Turbulence

Research Interests

- Aircraft ice accretion
- Multiphase turbulent flows
- High-performance computing

Personal Interests

- Running
- Cooking





Waquar Kaleem

Ph.D. Candidate

Industrial and Manufacturing Engineering, Penn State
University Park, PA (USA)



PennState
College of Engineering

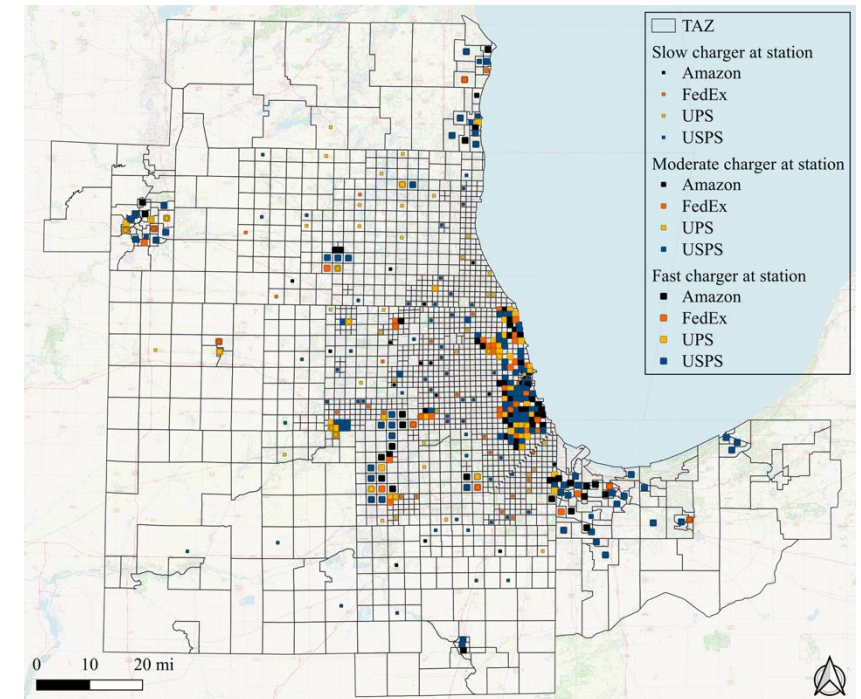
Scientific Field | Mathematics

Research Interests

- Discrete Optimization
- Machine Learning
- High-Throughput Computing

Personal Interests

- Cooking
- Watching documentaries





Jay Kalinani

Post-doctoral Researcher

Physics, University of Illinois Urbana-Champaign
Champaign, IL (USA)



UNIVERSITY OF
ILLINOIS
URBANA - CHAMPAIGN

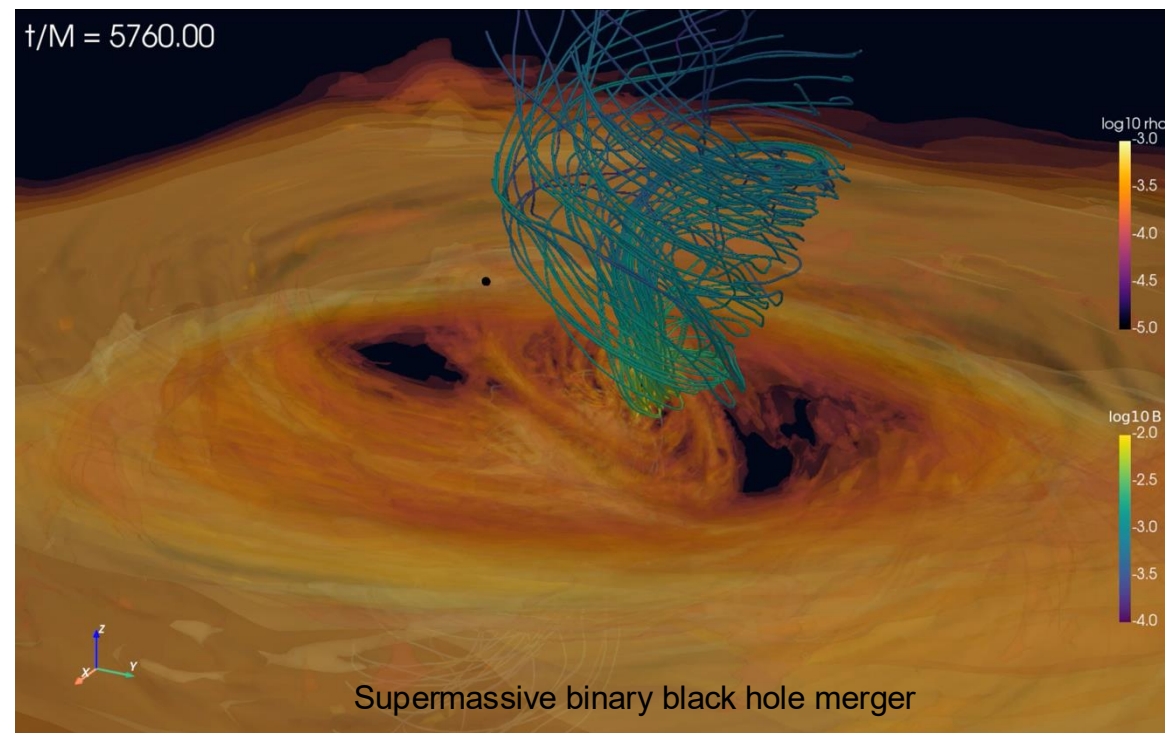
Scientific Field | Physics, Astrophysics

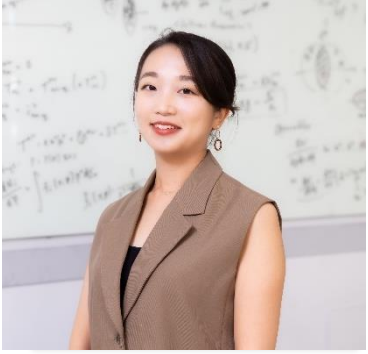
Research Interests

- Compact objects
- Magnetohydrodynamics
- Radiation transport

Personal Interests

- Hiking
- Chess, Football





Yuuka Kanakubo

Postdoctoral Researcher

Nuclear Science, Lawrence Berkeley National Laboratory / RIKEN iTHEMS
Berkeley, CA (USA)



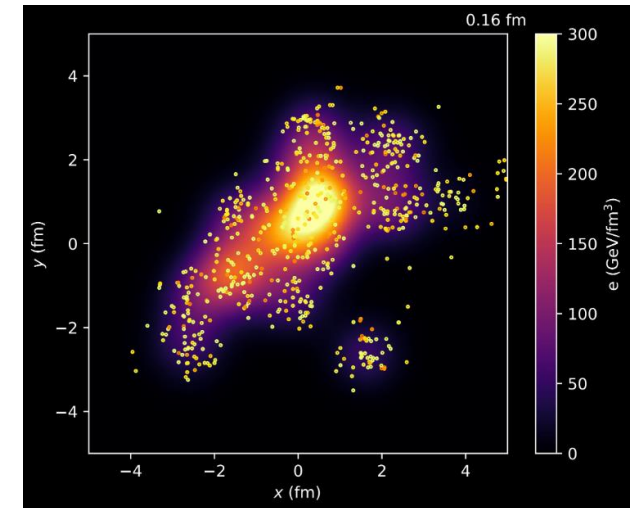
Scientific Field | Physics, Nuclear Physics

Research Interests

- Numerical simulation of relativistic nuclear collisions
- (3+1)D relativistic hydrodynamics
- Direct simulation of Boltzmann transport

Personal Interests

- Tennis
- Running





Sharanjeet Kaur

Postdoctoral Appointee

Transportation and Power Systems Division,
Argonne National Laboratory, Lemont, IL, USA



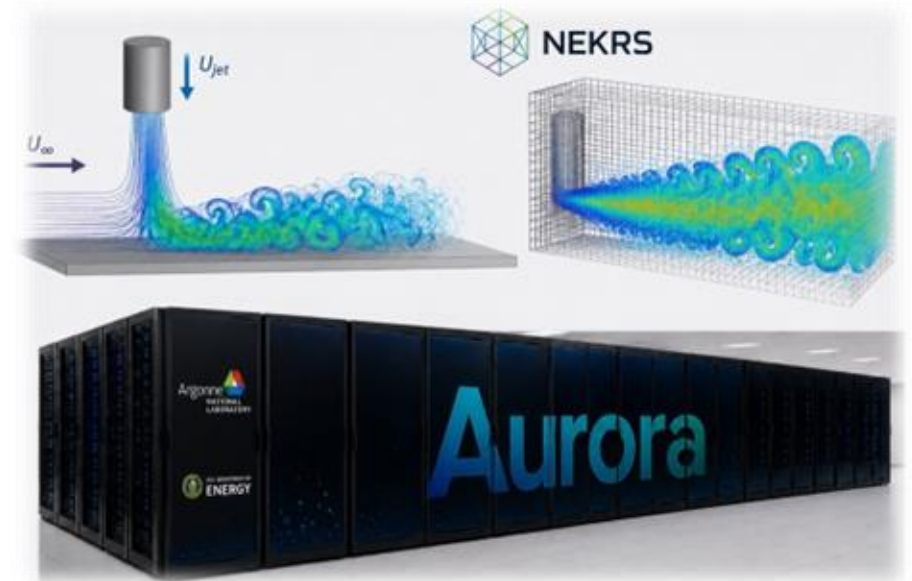
Scientific Field | Engineering, Fluids and Turbulence

Research Interests

- Computational Fluid Dynamics (CFD)
- AI for CFD
- High Performance Computing
- High-order CFD methods

Personal Interests

- Dance for fun
- Listening to music





Aditya Koneru

Argonne Scholar

Computational Science, Argonne National Laboratory
Lemont, IL (USA)



Scientific Field | Materials Science, Materials Discovery, Design, and Synthesis

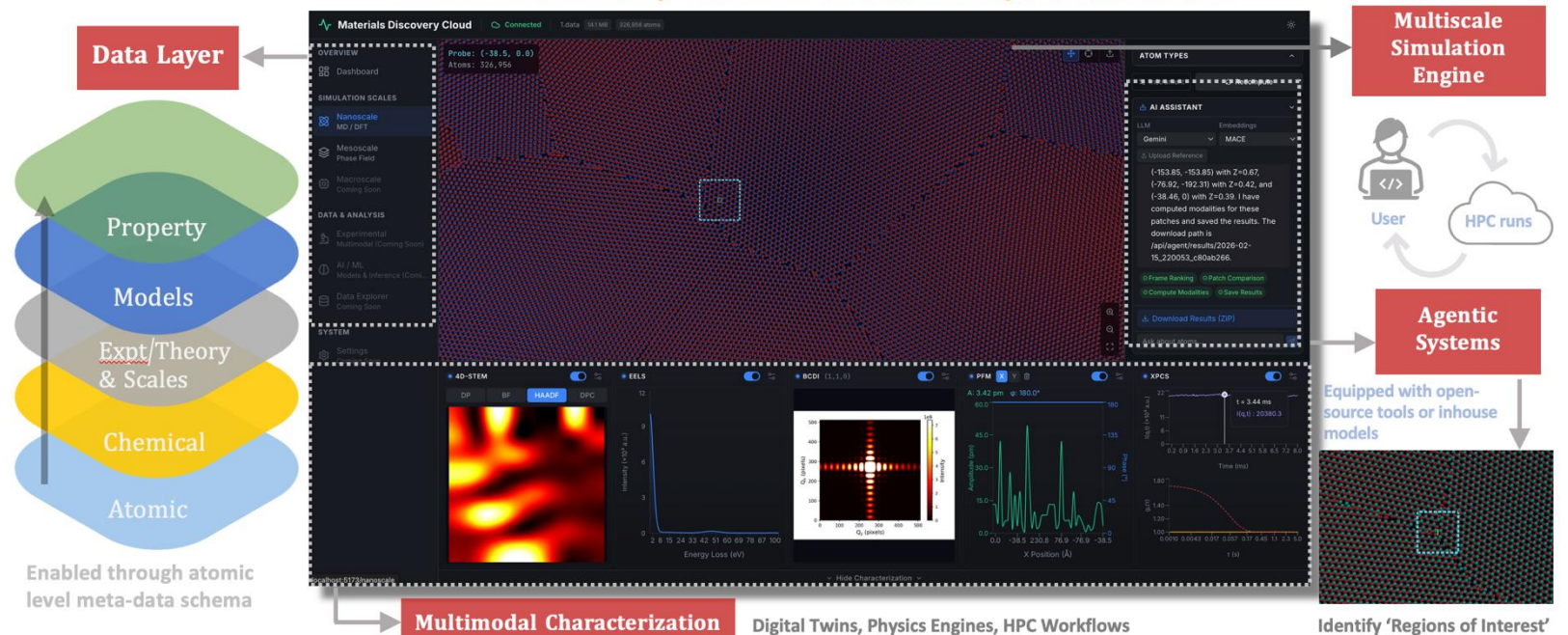
Research Interests

- Multiscale Intelligence
- Microelectronics
- Autonomous Synthesis

Personal Interests

- Teaching
- Traveling

Materials Discovery Cloud: A Multimodal Synthesis Enabler





Aishwarya Krishnan

Ph.D. Student

Mechanical Engineering, Univ. of Southern California
Los Angeles, CA (USA)



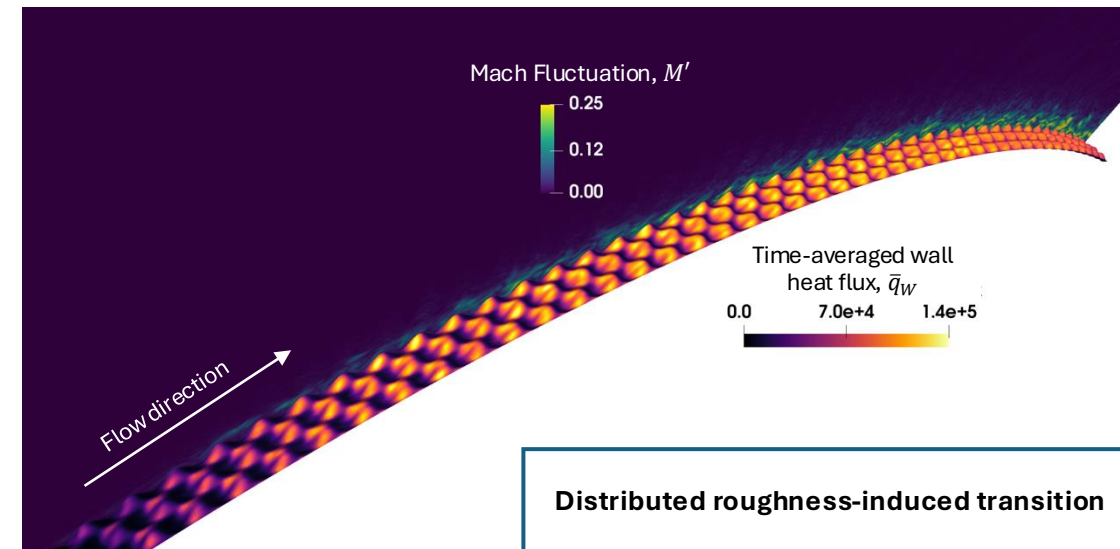
Scientific Field | Engineering, Fluids and Turbulence

Research Interests

- High-speed boundary layer stability and transition
- Physics-based wall modeling for compressible flows
- High performance computing

Personal Interests

- Baking
- Hiking





Mateo Landazuri

Ph.D. Student

Aerospace Engineering, Texas A&M University
College Station, TX (USA)



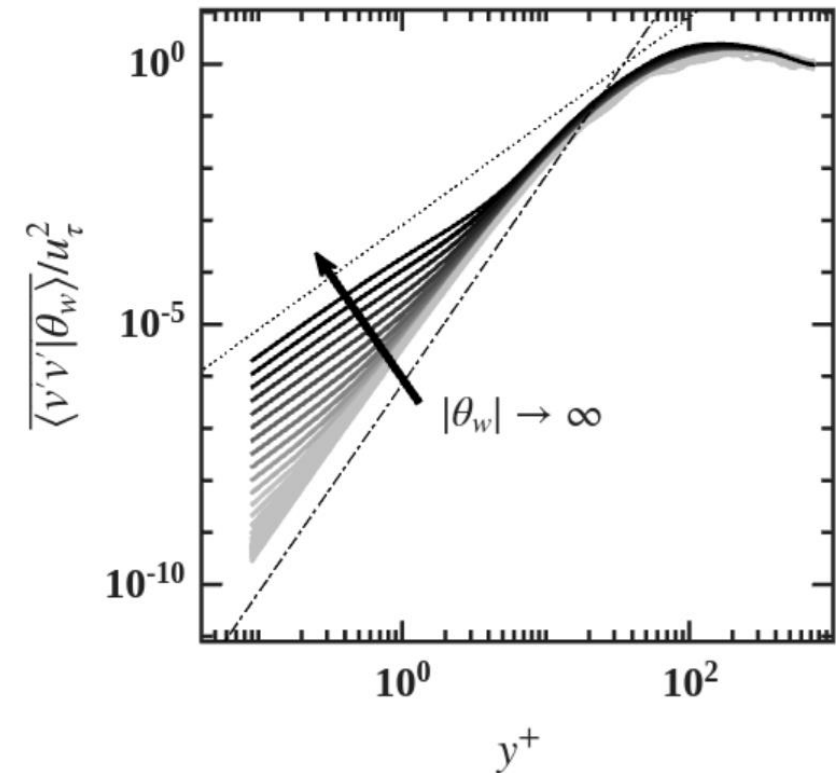
Scientific Field | Engineering, Fluids and Turbulence

Research Interests

- Wall-Bounded Compressible Flows
- Particle Tracking
- HPC/Accelerator Offloading

Personal Interests

- Music
- Baking





Eunice Ledres

Recent M.S Graduate
Geoscience, University of Nevada Las Vegas
Las Vegas, NV (USA)



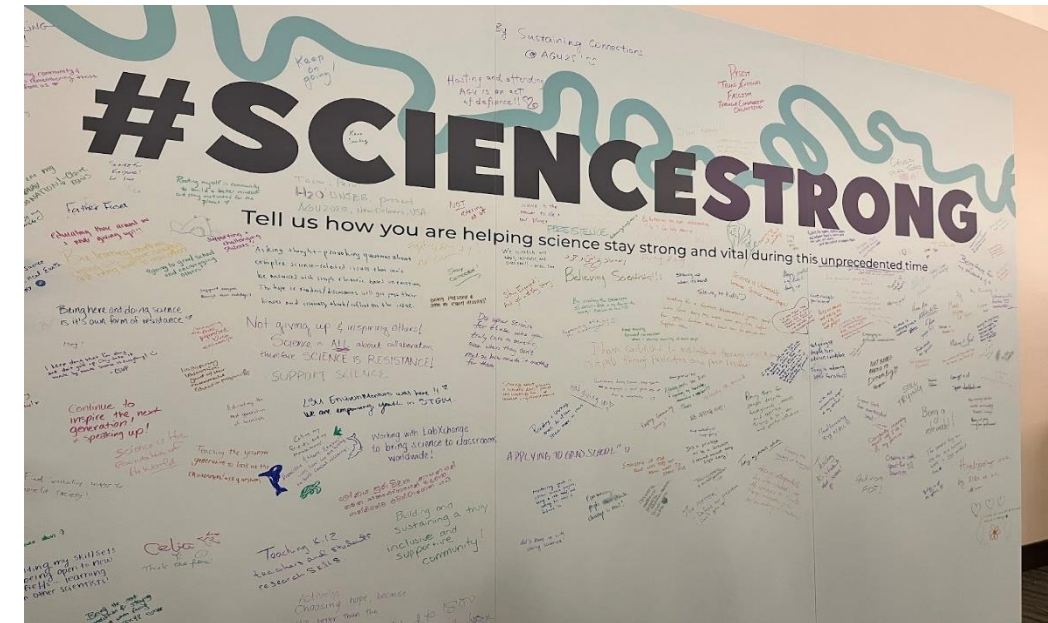
Scientific Field | Earth Science, Environmental Sciences

Research Interests

- Lake management
- Hydropower
- Machine Learning

Personal Interests

- Camping
- Pilates

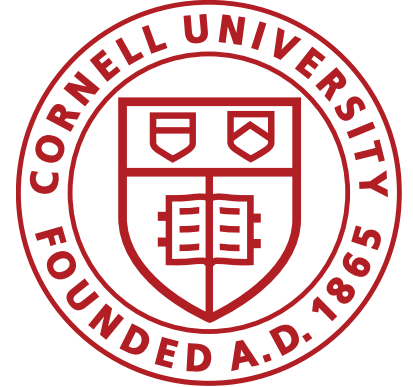




Chase Lee

Ph.D. Candidate

Sibley School of Mechanical and Aerospace Engineering, Cornell University
Ithaca, New York (USA)



Scientific Field | Engineering, Fluids and Turbulence

Research Interests

- Compressible multiphase flows
- Numerical methods
- Shock-induced aerobreakup

Personal Interests

- Video games
- Tennis





Seunghan Lee

Ph.D. Student

Materials Science and Engineering, Northwestern University
Evanston, IL (USA)



Northwestern
McCORMICK SCHOOL
OF ENGINEERING

Scientific Field | Materials Science, Materials Discovery, Design, and Synthesis

Research Interests

- AI-driven materials discovery
- Agentic AI for literature-informed scientific discovery
- Large-scale, long-timescale atomistic simulations with machine-learning interatomic potentials

Personal Interests

- Playing soccer
- Watching baseball





Benjamin James Li

Graduate Student Researcher

Department of Nuclear Engineering, UC Berkeley
Berkeley, California

University
of California
Berkeley

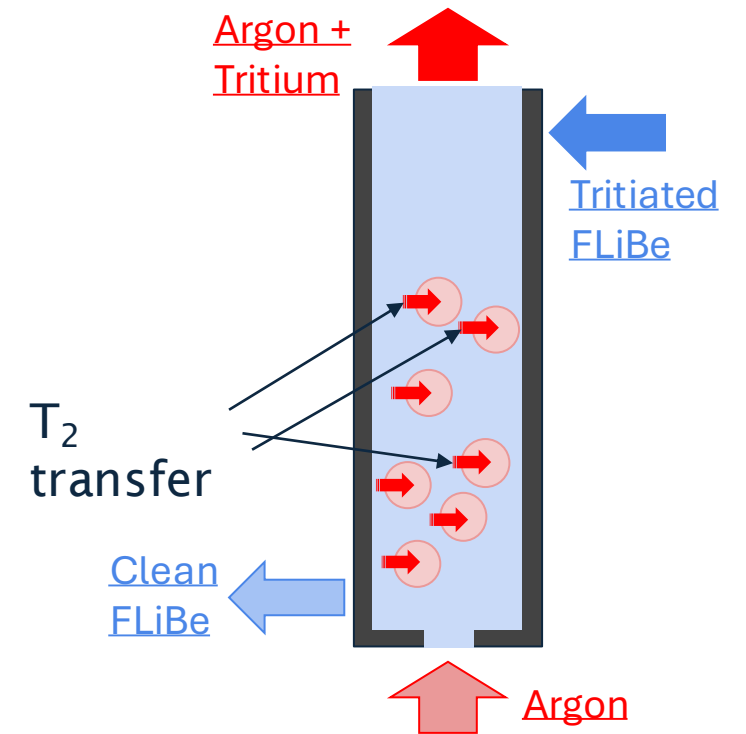
Scientific Field | Nuclear Energy

Research Interests

- Multiphase Computational Fluid Dynamics
 - Level Set Method, Volume of Fluid, Continuum Species Transport
- Fusion fuel cycle & tritium extraction
- Molten salt reactors & fission product extraction

Personal Interests

- Rock climbing
- Board games





Ruoyu Li

Ph.D. Candidate

Department of Computer Science, Florida State University
Tallahassee, FL



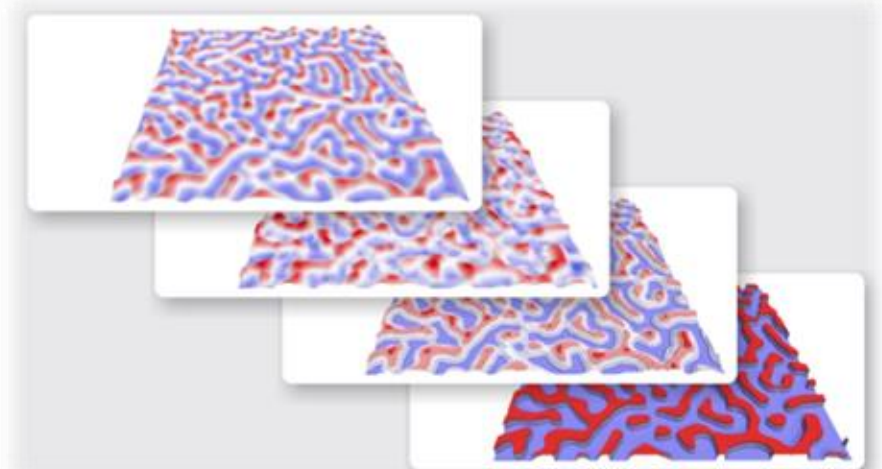
Scientific Field | Computer Science

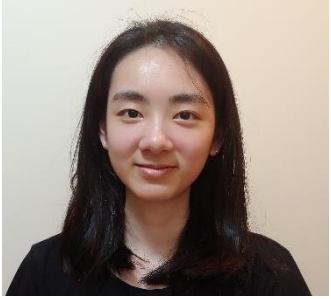
Research Interests

- High Performance Computing
- Scientific Data Management, Analytics, and Visualization
- Parallel, Distributed and Heterogeneous Systems
- Machine Learning

Personal Interests

- Video Game
- Piano





Hai Lu Lin

Ph.D. Student

Mechanical Engineering, The City College of New York
New York, NY (USA)



The City College
of New York

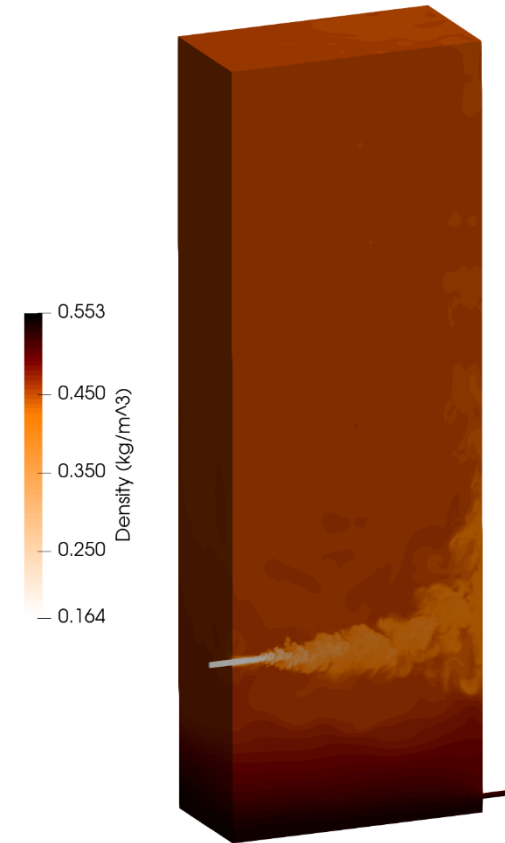
Scientific Field | Engineering, Fluids and Turbulence

Research Interests

- Computational Fluid Dynamics
- High-Performance Computing
- Thermal-Hydraulics Modeling for Reactor Safety

Personal Interests

- Traveling
- Reading





Rui Liu

Postdoctoral Fellow
NERSC, LBNL
Berkeley, CA (USA)



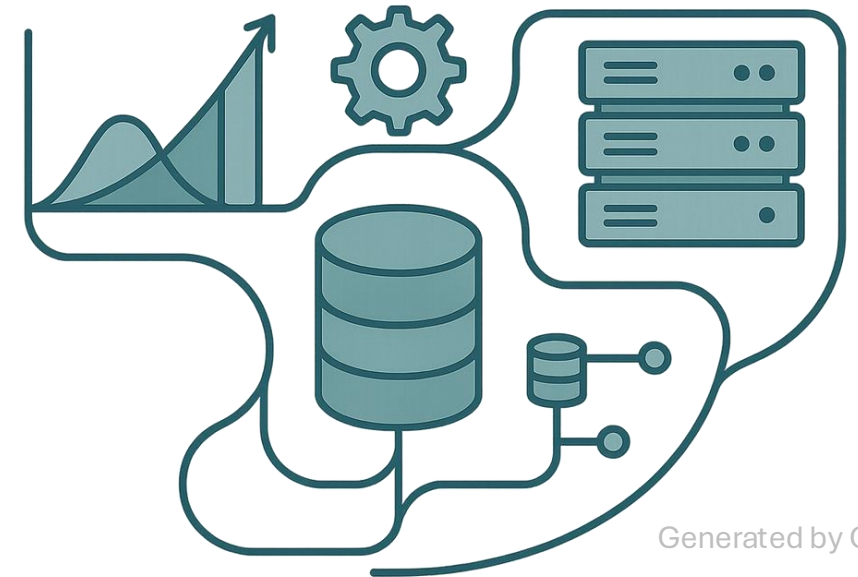
Scientific Field | Computer Science

Research Interests

- Performance Modeling and Optimization
- High-Performance Computing
- Data-Intensive Systems

Personal Interests

- Hiking
- Traveling



Generated by OpenAI



Bruno Lopez

Senior Research Scientist
Metacomp Technologies Inc
Westlake Village, CA (USA)

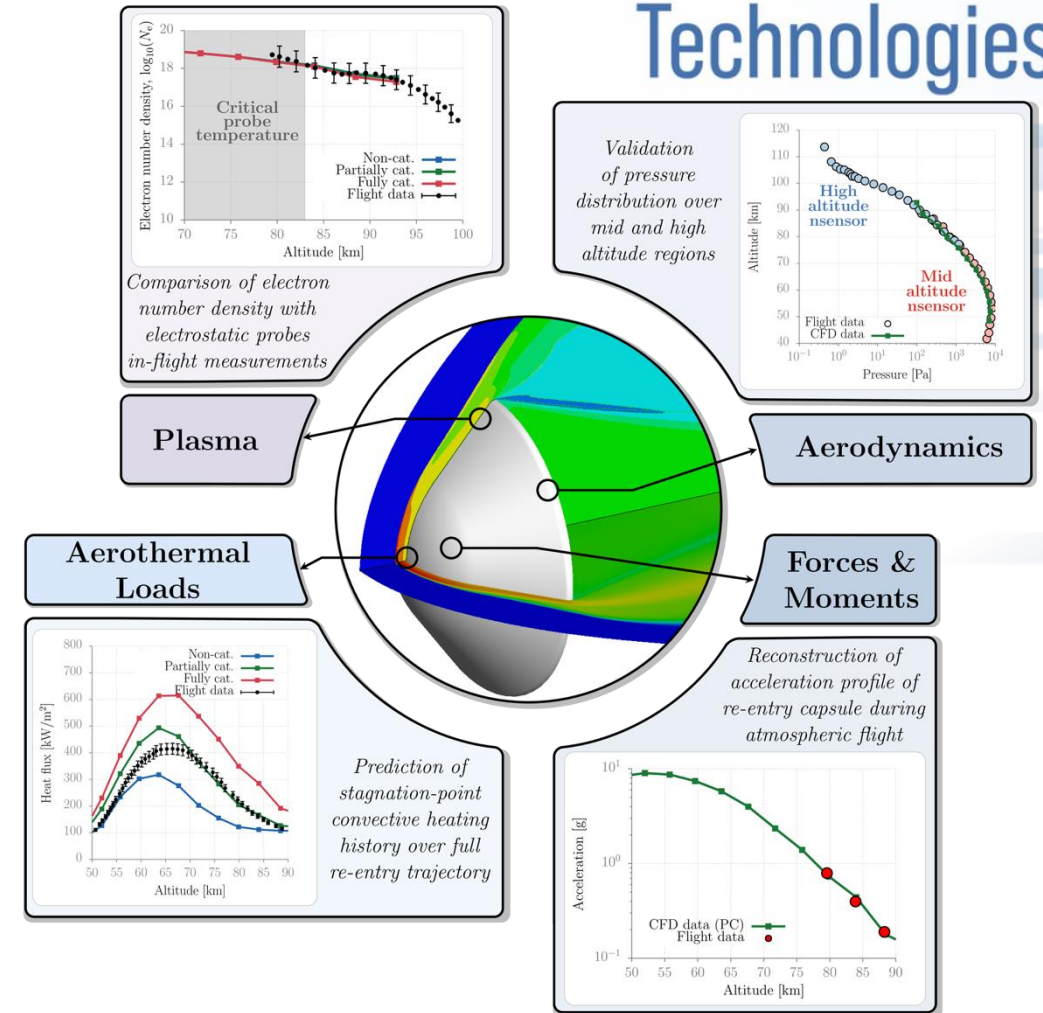
Scientific Field | Engineering, Heat Transfer

Research Interests

- Modeling of non-equilibrium high-temperature flows
- Gas surface interaction and database generation
- Databases for thermo, kinetic, and transport properties

Personal Interests

- Exhausting my 5 kids before bedtime through sports, science, and culture.
- Canyon exploration and hiking, especially when things get wet





Jackson Maxwell

Ph.D. Student

Chemistry, Rice University

Houston, Texas (USA)



RICE UNIVERSITY

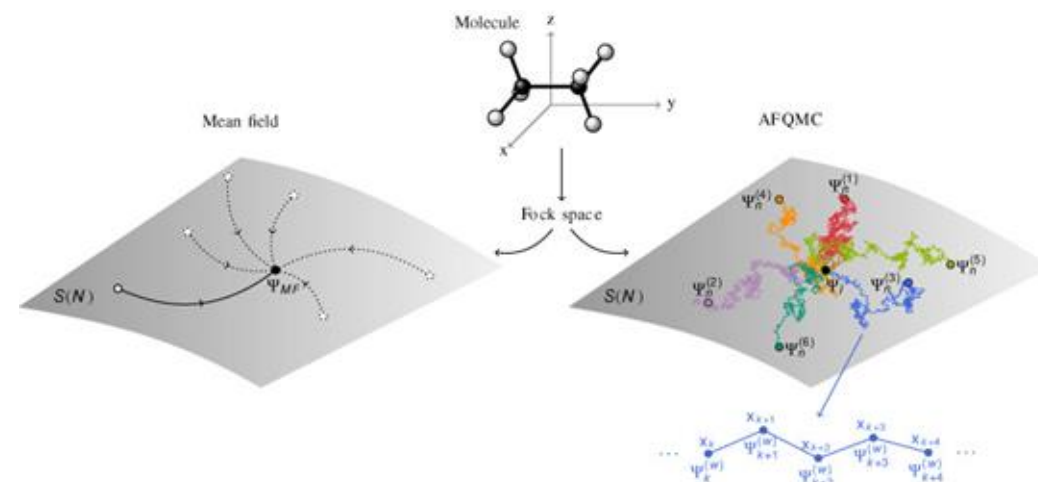
Scientific Field | Chemistry, Quantum Chemistry

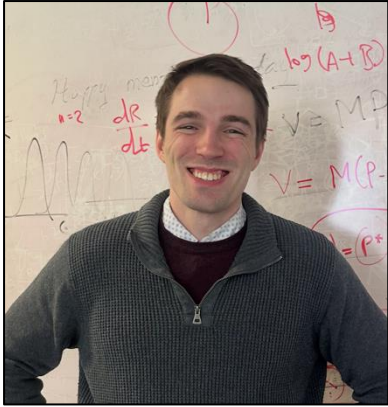
Research Interests

- Phaseless Auxiliary-Field Quantum Monte Carlo
- F-block Chemistry
- Relativistic Effects

Personal Interests

- Reading
- Watching Movies

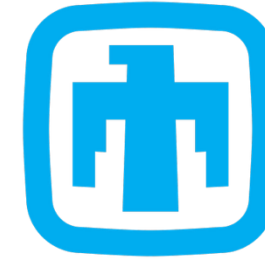




Daniel Moore

Postdoc

Materials Physics, Sandia National Laboratories
Livermore, CA (USA)



**Sandia
National
Laboratories**

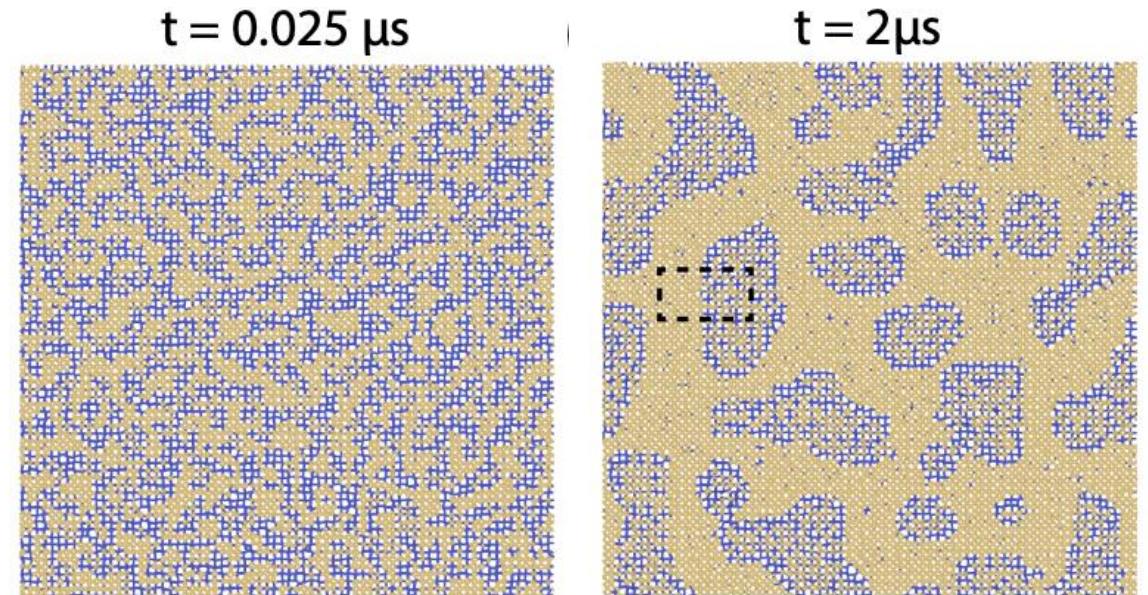
Scientific Field | Materials Physics

Research Interests

- Microstructure
- Grain Boundaries
- 2D-Materials

Personal Interests

- Reading
- Camping



Micron-scale MD simulations of GB Microstructure



U.S. DEPARTMENT
of **ENERGY**



Alexander C. Murph

Staff Scientist

Statistics Group, Los Alamos National Laboratory
Los Alamos, NM (USA)



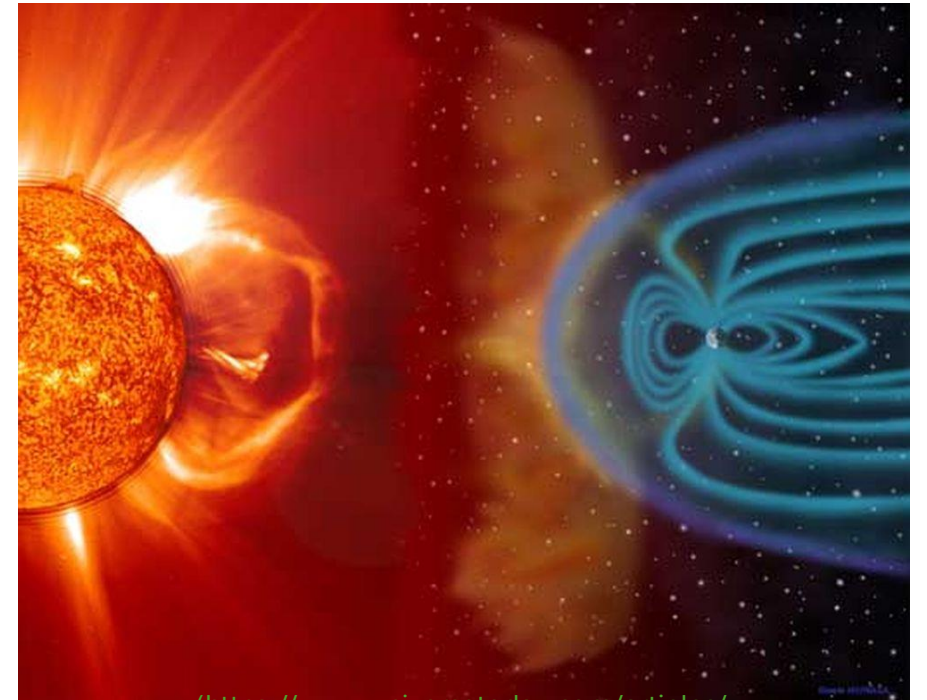
Scientific Field | Computer Science, Mathematics

Research Interests

- Disease modeling/forecasting
- Solar Energetic Particle Events
- Radio-nuclear Chemistry

Personal Interests

- Swimming
- Sketch comedy/clowning



(<https://www.universetoday.com/articles/>
)



Sameera Nalin Venkat

William R. Wiley Postdoctoral Fellow

Environmental Molecular Sciences Laboratory

Pacific Northwest National Laboratory (USA)



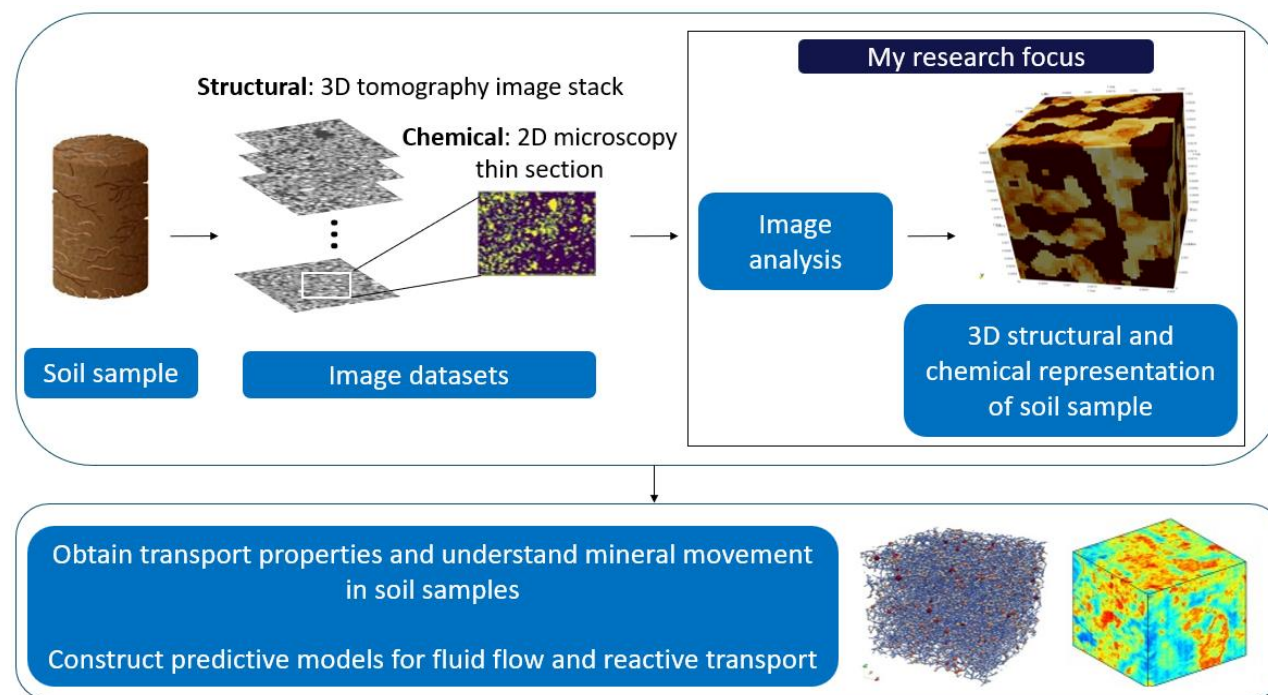
Scientific Field | Earth Science, Environmental Sciences

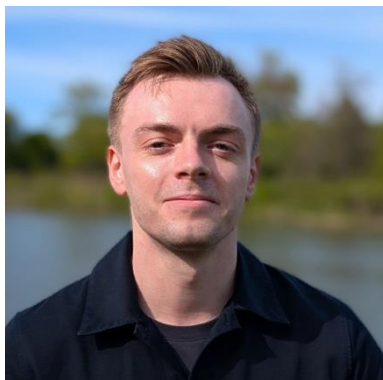
Research Interests

- Image analysis
- Machine and deep learning
- High-performance computing

Personal Interests

- Reading
- Drawing





Bricker Ostler

PhD Candidate

Department of Physics, University of Chicago
Chicago, IL (USA)



THE UNIVERSITY OF
CHICAGO

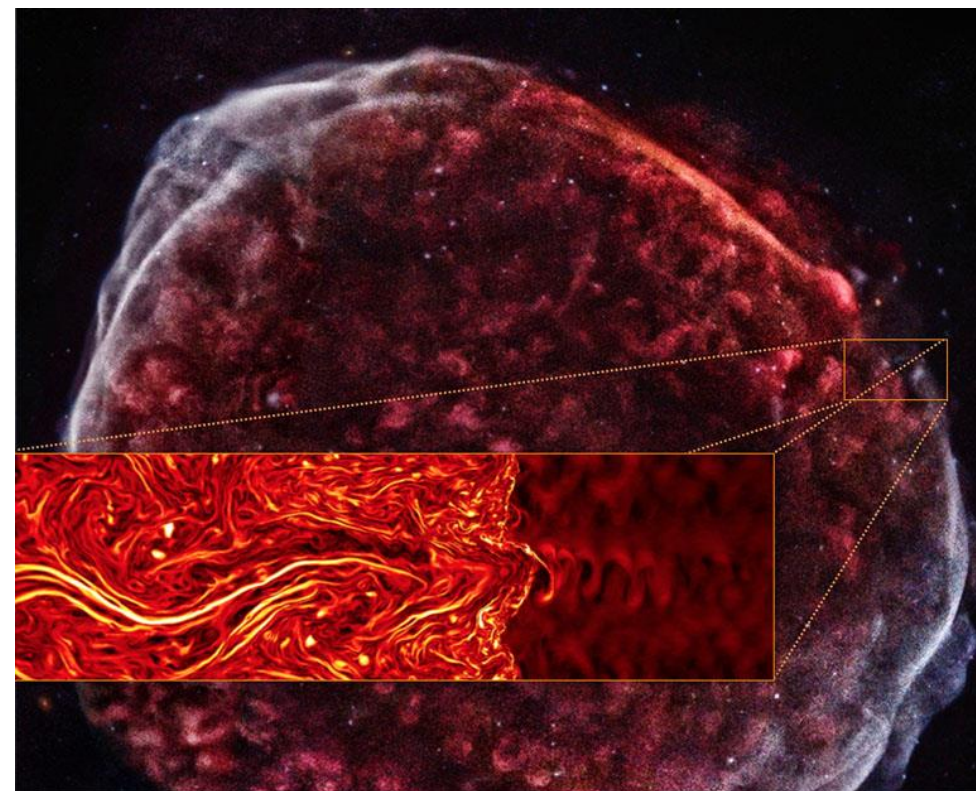
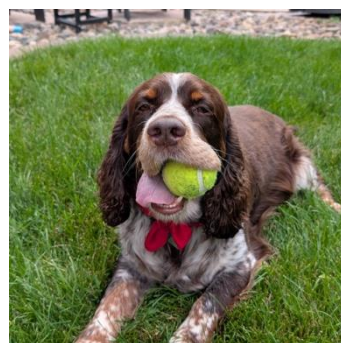
Scientific Field | Astrophysics

Research Interests

- Cosmic ray streaming instabilities
- Hybrid (fluid electron + kinetic ion) PIC simulations of collisionless plasma
- Performance optimization + algorithm development

Personal Interests

- Playing with my dog!





Aditya Parik

Postdoctoral Fellow

Mechanical Engineering, Utah State University,
Logan, UT (USA)



COLLEGE of
ENGINEERING
UtahStateUniversity

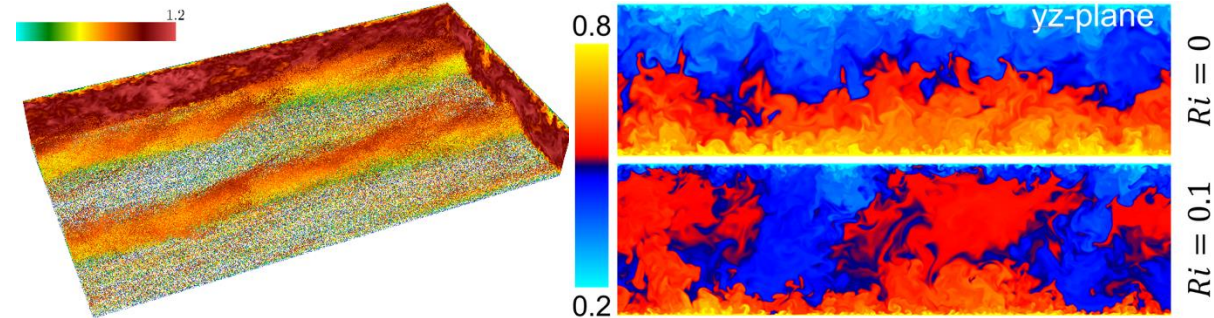
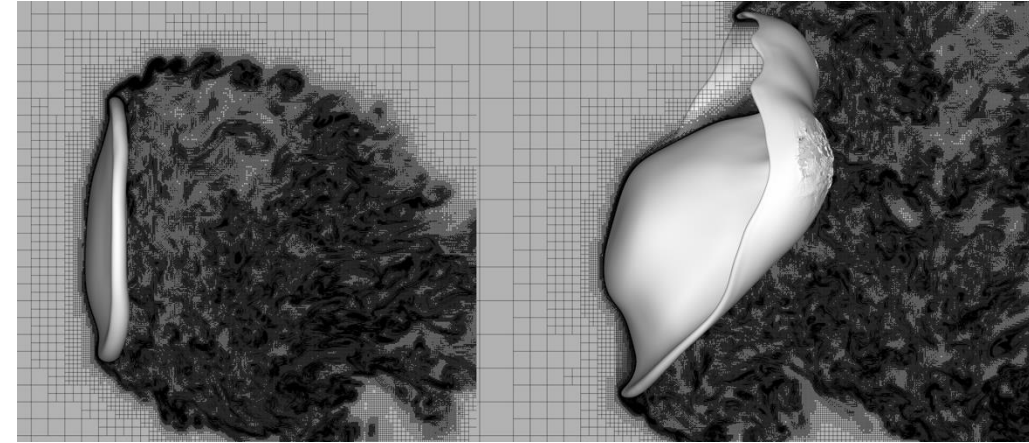
Scientific Field | Engineering, Fluids and Turbulence

Research Interests

- DNS/LES of turbulent and multiphase flows.
- Primary and secondary fragmentation dynamics of non-Newtonian fluids.
- Development of exascale GPU workflows for particle transport and immersed boundary methods.

Personal Interests

- Hiking / Outdoor recreation
- Guitar / Music



Current research supported by DOE-NE NEUP; computing resources from ALCF Aurora and TACC Frontera.



Saverio Pasqualoni

M.S. / Ph.D. Student

Computer Science, KAUST

Thuwal, Saudi Arabia



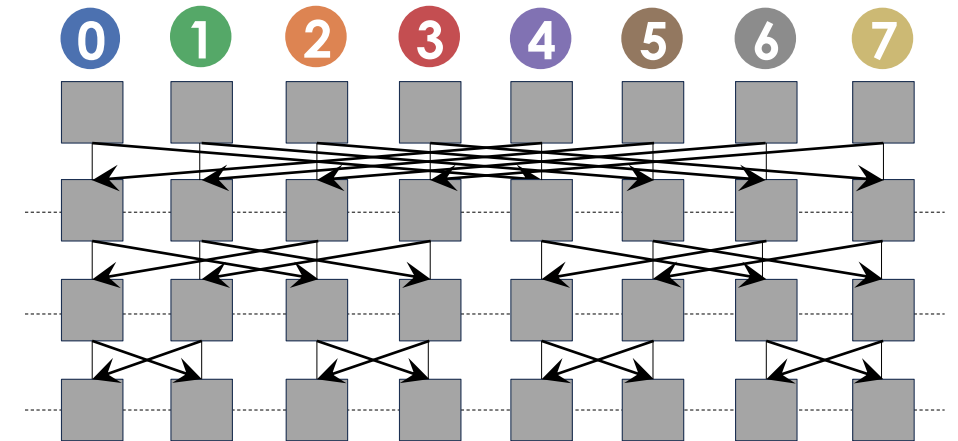
Scientific Field | Computer Science

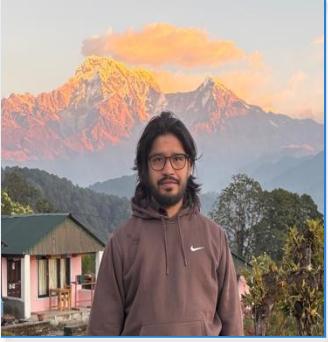
Research Interests

- Collective Communications
- Accelerators
- Performance Evaluation

Personal Interests

- Climbing (and other sports...)
- Comics





Abhiyan Paudel

Ph.D. Student

Aerospace Engineering, Rensselaer Polytechnic Institute
Troy, NY (USA)



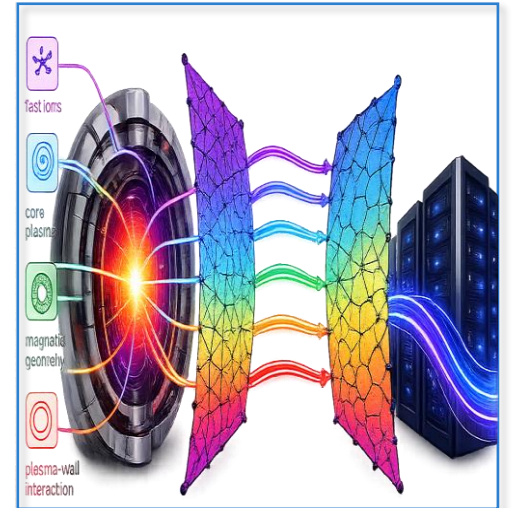
Scientific Field | Fusion Energy

Research Interests

- High-Performance Computing
- Multiphysics & Multiscale Coupling
- Numerical Methods

Personal Interests

- Strength Training
- Hiking





Juan Manuel Pérez

Ph.D. Student

Fluid Mechanics, University of Zaragoza
Zaragoza (Spain)



Universidad
Zaragoza

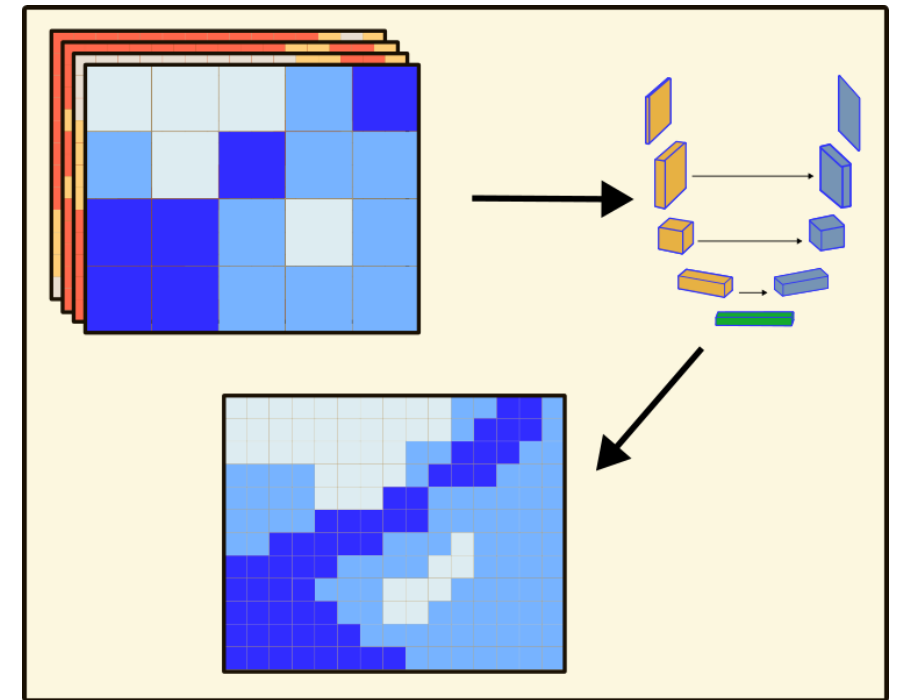
Scientific Field | Engineering, Fluids and Turbulence

Research Interests

- Sub-grid Scale and Multi-scale Modeling
- Hybrid Physics-ML Models for Hydrological Flows
- HPC for Hydrodynamic Simulations

Personal Interests

- Volleyball
- Traveling





Surya Ramachandran

Ph.D. Candidate

Mechanical Engineering, University of Minnesota, Twin Cities
Minneapolis, MN (USA)



UNIVERSITY OF MINNESOTA

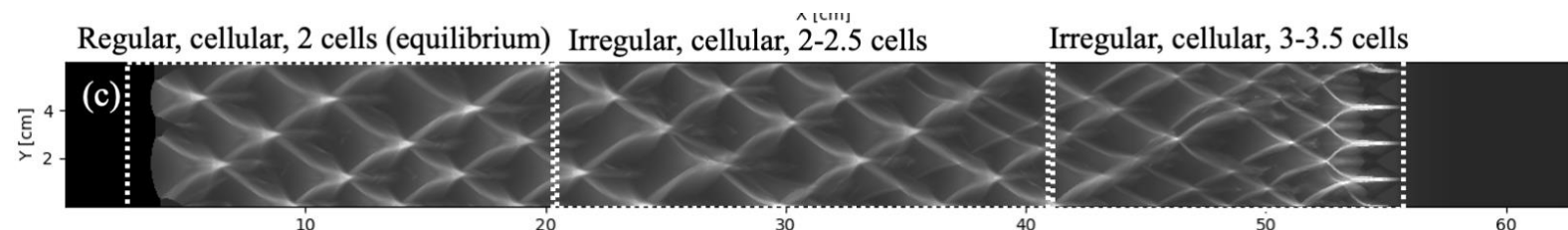
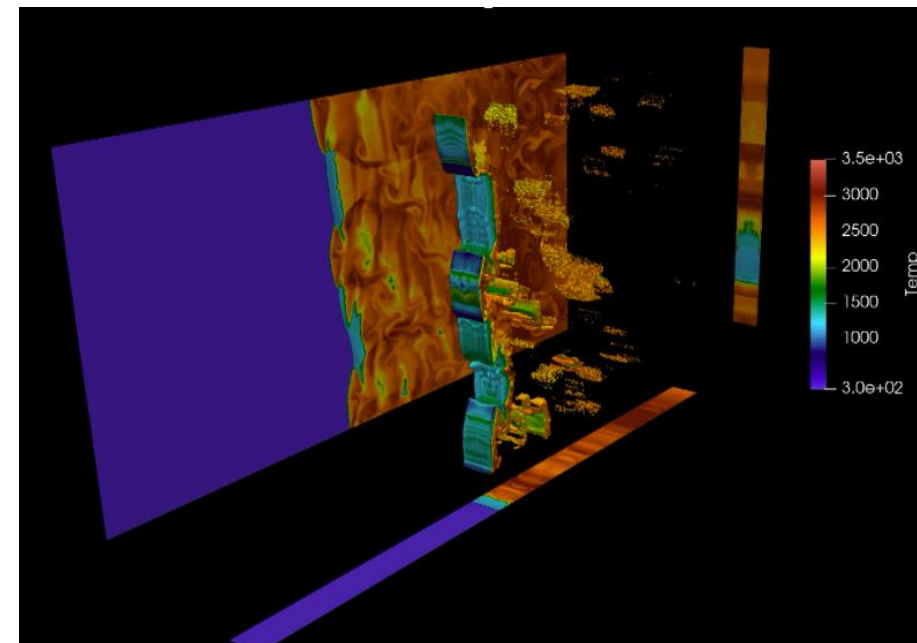
Scientific Field | Engineering, Combustion

Research Interests

- Computational Reacting Flows and Fluid Dynamics
- Scientific Machine Learning
- High Performance Computing

Personal Interests

- Strength Training & Fitness
- Classical Music





Usman Riaz

Postdoctoral Research Associate
Scientific Computation Research Center, Rensselaer Polytechnic Institute
Troy, NY (USA)



Rensselaer



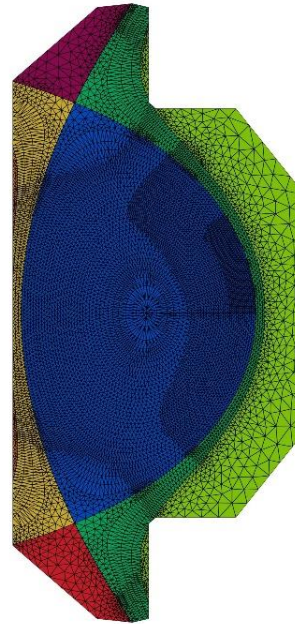
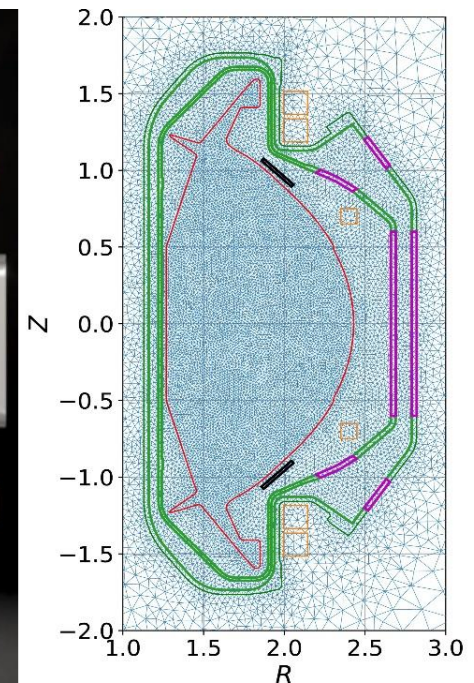
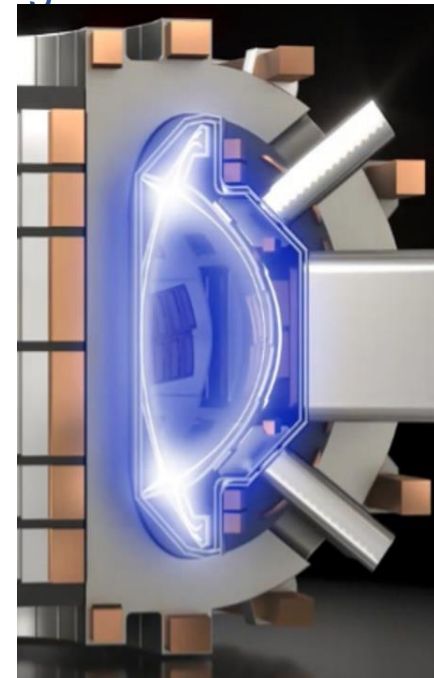
Scientific Field | Computational Fusion Energy, Magnetic Fusion

Research Interests

- Geometric Modeling and Meshing
- Finite Element Methods
- Computational Fusion

Personal Interests

- Cricket
- Reading literature & watching Sitcoms





Gabriel Robert-Dautun

PhD Student
High Intensity Physics, CEA
Saclay, France



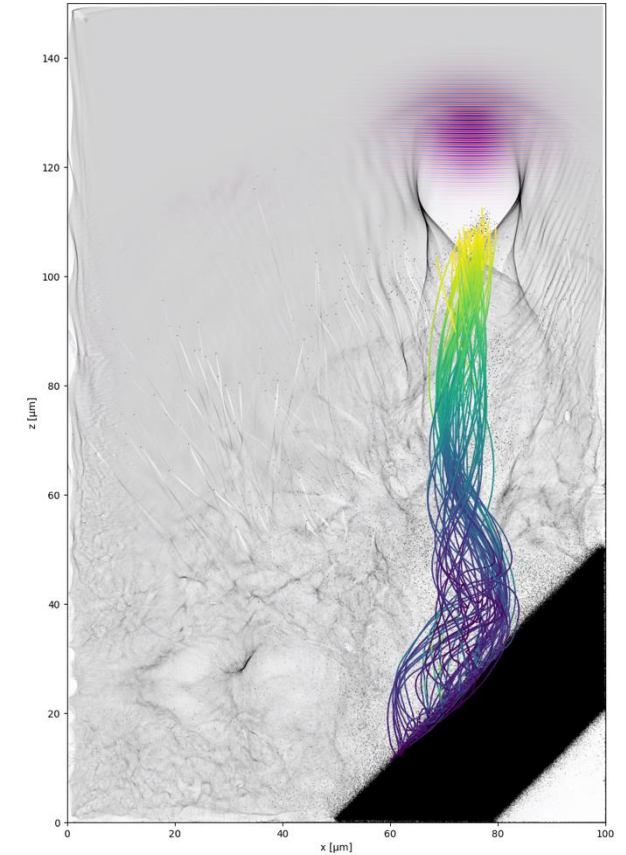
Scientific Field | Physics, Plasma physics

Research Interests

- Plasma based acceleration
- High Performance Computing
- Astrophysics

Personal Interests

- Piano
- Gym
- Video games





Shobhan Roy

Post-doctoral researcher

Mech. Engg. and IIHR—Hydroscience & Engg., University of Iowa
Iowa City, IA (USA)



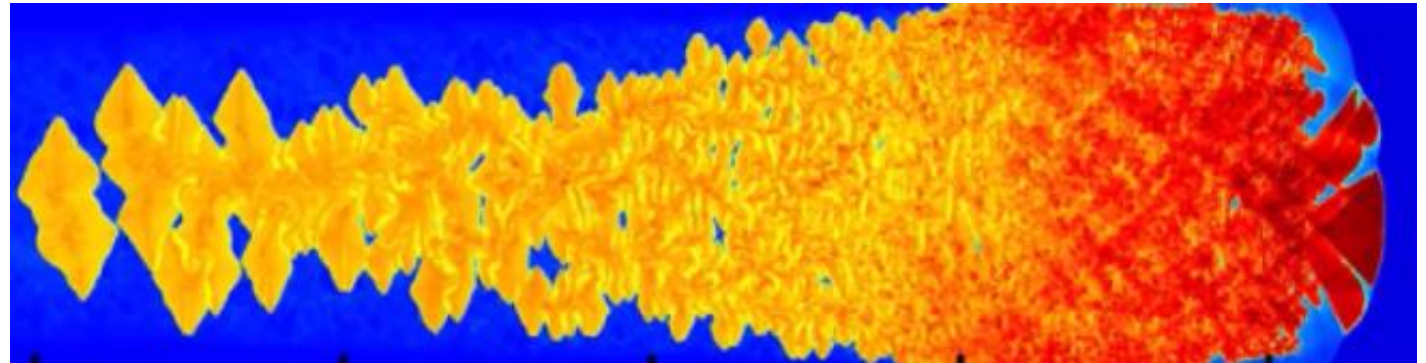
Scientific Field | Materials Science, Materials Discovery, Design, and Synthesis

Research Interests

- Multi-physics and materials modeling
- Computational mechanics
- Physics-informed machine learning

Personal Interests

- Hiking, camping, swimming
- Sci-fi & horror movies





Mateus Schuabb

Ph.D. Student

Aerospace Engineering, The Ohio State University
Columbus, OH (USA)



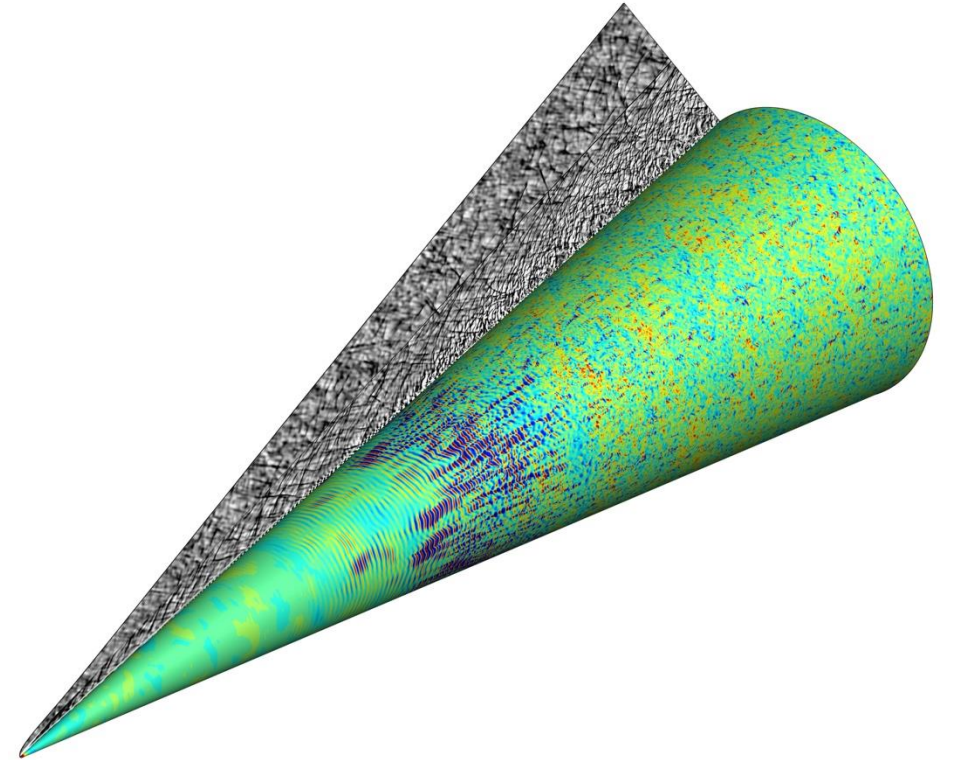
Scientific Field | Engineering, Fluids and Turbulence

Research Interests

- Hypersonic boundary-layer transition
- Direct numerical simulation (DNS)
- High-Performance Computing

Personal Interests

- Soccer
- Traveling





Snigdaa Sethuram

Postdoc

Computational Sciences, ANL

Chicago, IL (USA)



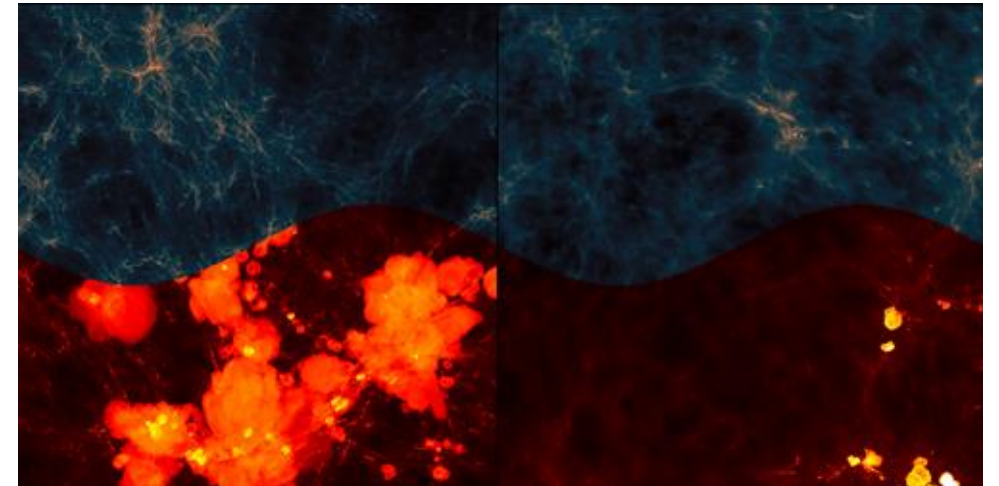
Scientific Field | Physics, Astrophysics

Research Interests

- MHD simulations & radiative modeling
- Galaxy evolution
- Resolution-independent subgrid methods

Personal Interests

- Music and production
- Trail biking





Khaled SharafEldin

Postdoctoral Associate
XSD, Argonne National Laboratory
USA, IL



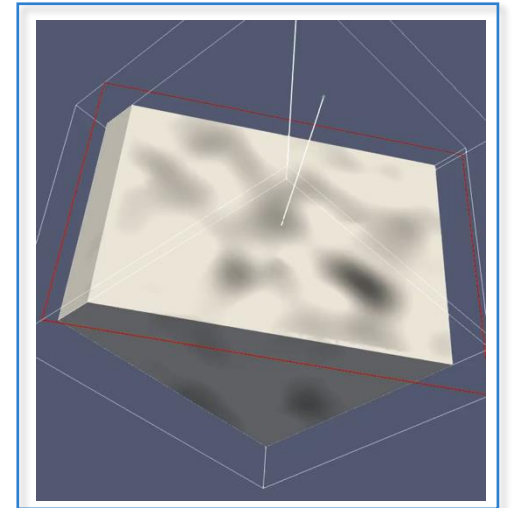
Scientific Field | Materials Science, Condensed Matter, and Materials Physics

Research Interests

- Multiscale plasticity
- Materials under extreme conditions
- Advanced characterization techniques (BCDI)

Personal Interests

- DIY projects
- Cycling/Rowing





Saurav Shenoy

Ph.D. Student

Materials Science, The Pennsylvania State University
State College, PA (USA)



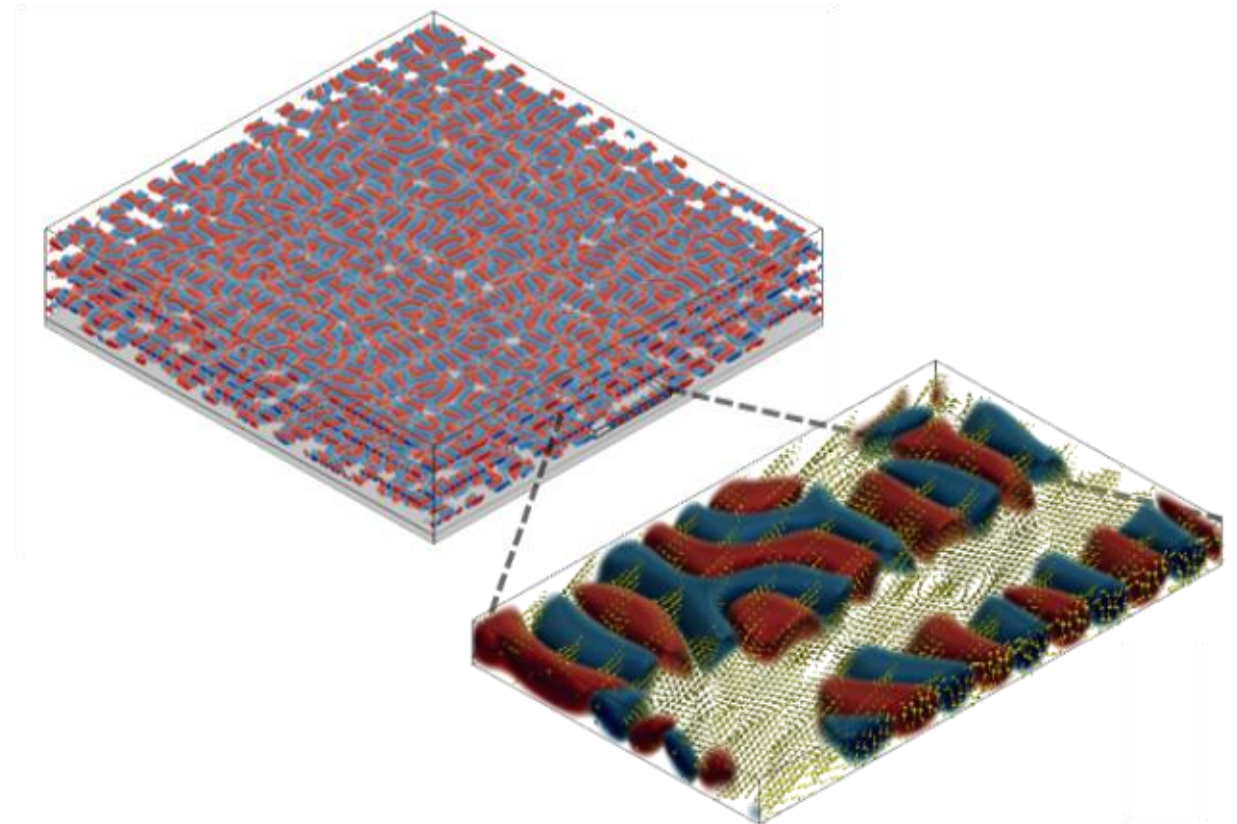
Scientific Field | Materials Science, Nanoscience

Research Interests

- Properties of ferroic materials
- Phase-field modeling
- High-Performance Computing

Personal Interests

- Soccer
- Non-fiction





Bowen Shi

Ph.D. Student
Oden Institute, The University of Texas at Austin
Austin, Texas (USA)



ODEN INSTITUTE

FOR COMPUTATIONAL ENGINEERING & SCIENCES

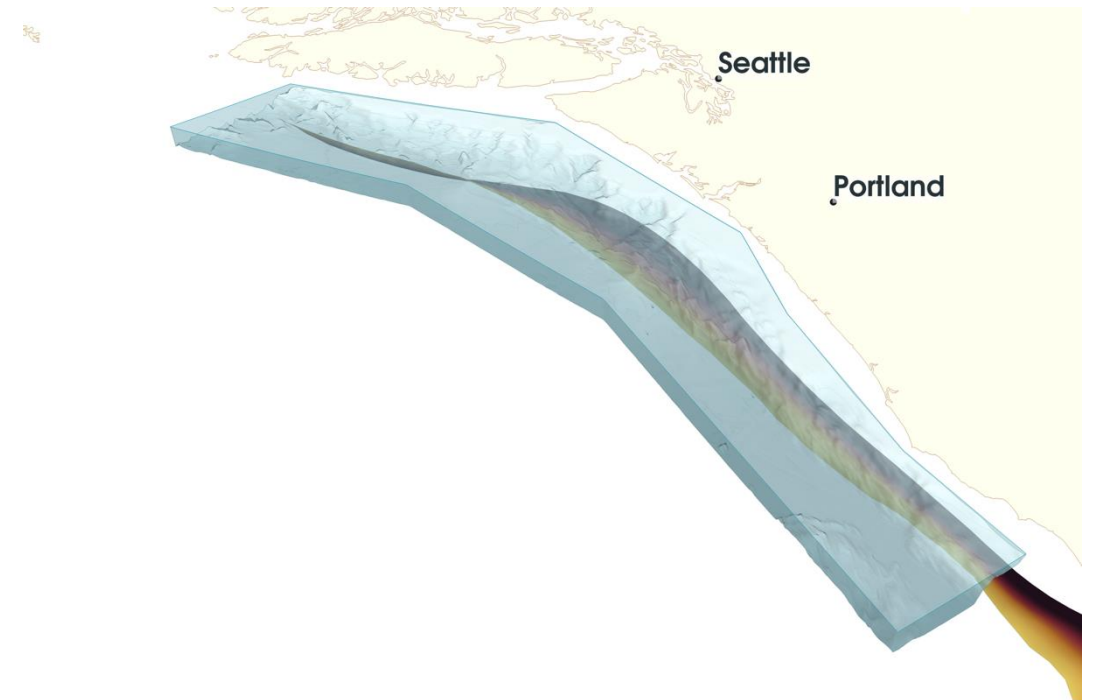
Scientific Field | Mathematics

Research Interests

- High-performance Computing
- Hardware-aware Algorithms
- Applied Mathematics

Personal Interests

- Hiking
- Classical Music





Archana Sridhar

Postdoctoral Fellow

Mechanical Engineering, Georgia Institute of Technology
Atlanta, GA (USA)



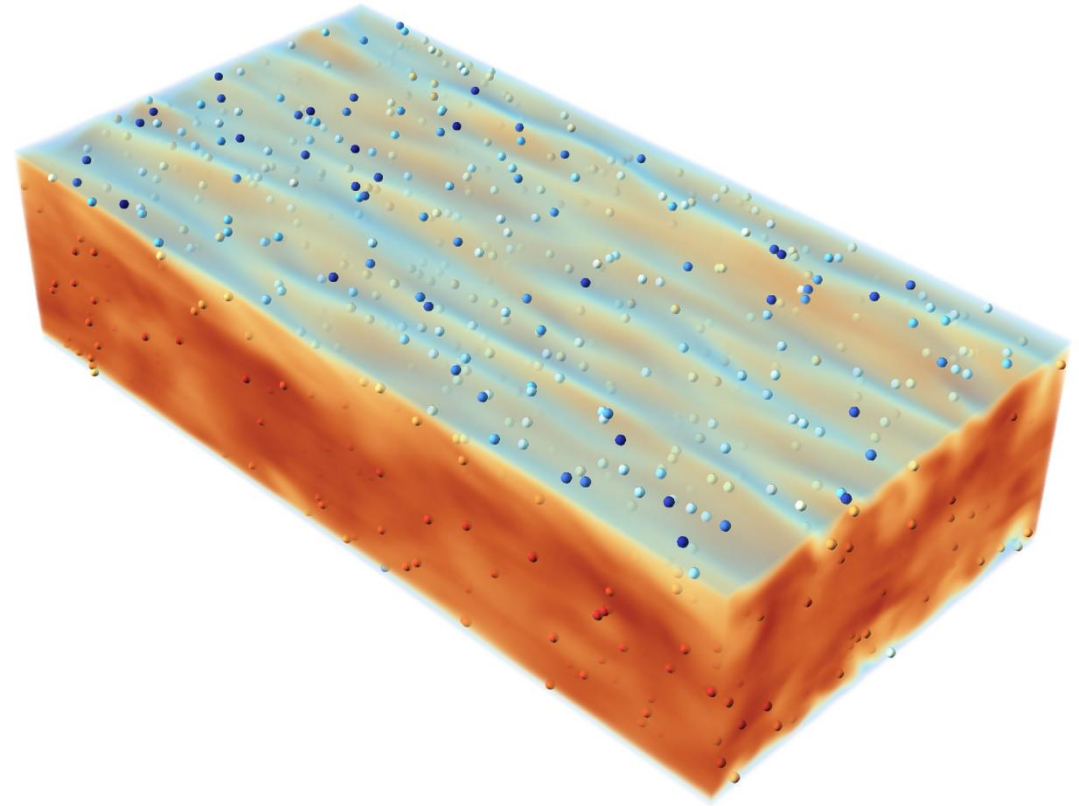
Scientific Field | Engineering, Fluids and Turbulence

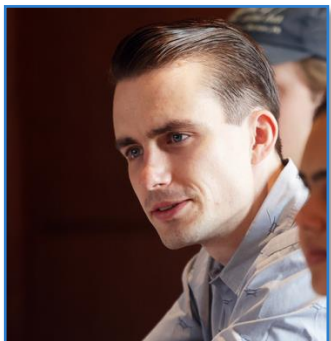
Research Interests

- Multiphase (Particle-laden) Flows
- Turbulence
- High-Performance Computing

Personal Interests

- Tennis
- Strength training/Hiking





Alex Wadell

Post Doctoral Researcher
CAI-3, Los Alamos National Laboratory
Los Alamos, New Mexico



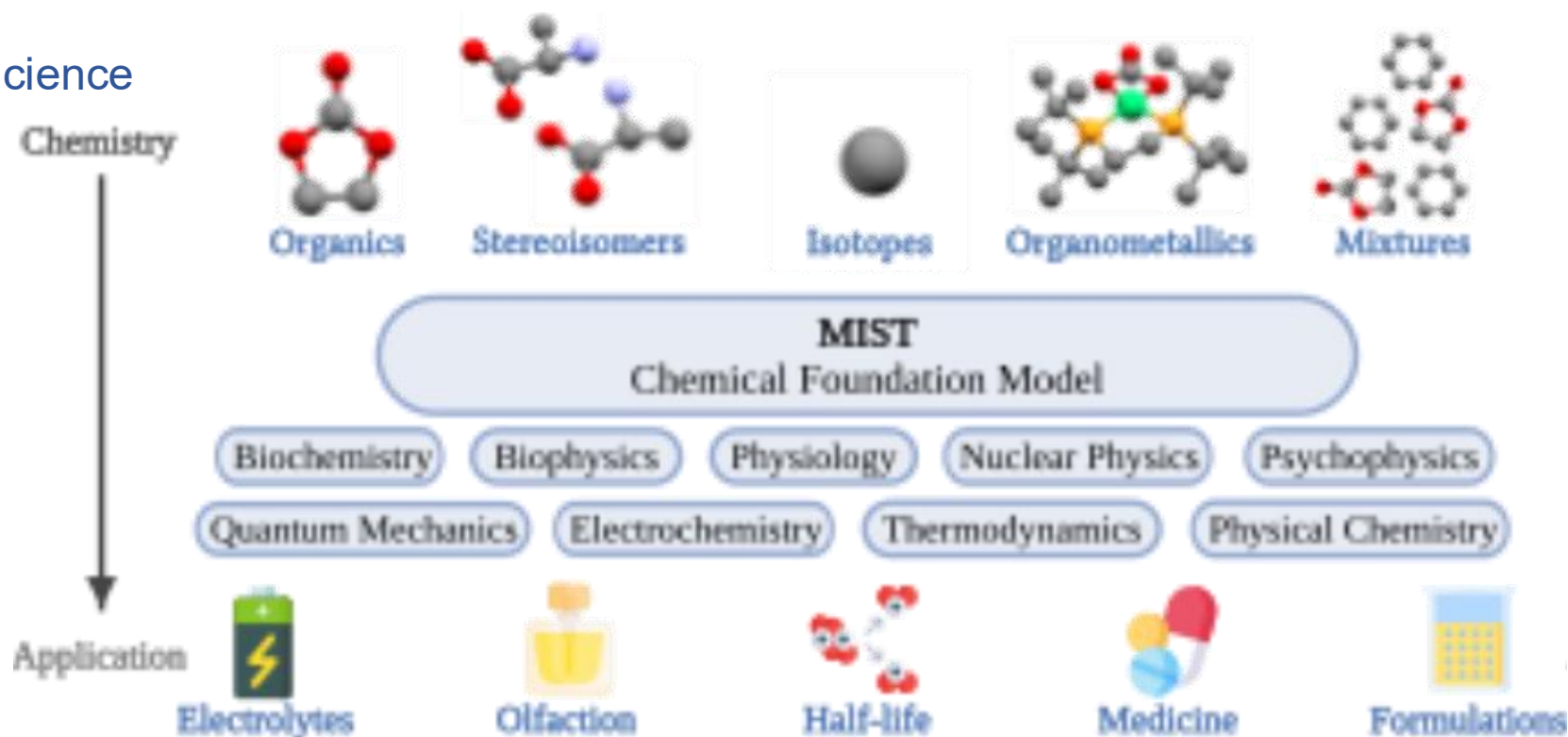
Scientific Field | Materials Science

Research Interests

- Scientific Foundations Model
- High-Performance Computing
- Mechanistic Interpretability

Personal Interests

- Mountain Biking
- Baking





Jordan Wagner

Postdoc

Mechanical Engineering, Rice University
Houston, Texas (USA)



RICE UNIVERSITY
School of Engineering
and Computing



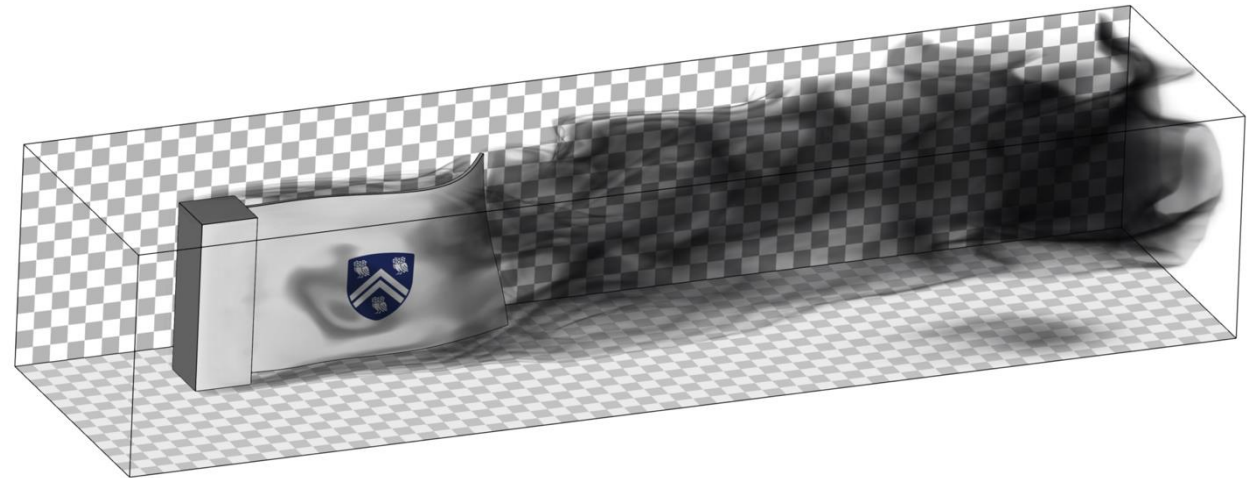
Scientific Field | Engineering, Fluid-Structure Interaction

Research Interests

- Finite element methods
- Flow over rough surfaces
- Physics-informed machine learning

Personal Interests

- Diving
- Reading (history)
- Chess





Carolyn Wendeln

Ph.D. Student

Computational Mathematics, Science and Engineering, Michigan State University, East Lansing, MI (USA)



MICHIGAN STATE
UNIVERSITY

Scientific Field | Physics, Plasma Physics

Research Interests

- Magnetohydrodynamics
- Turbulence
- High-Order Numerical Methods

Personal Interests

- Reading
- Running with my dog





Ben Wibking

Postdoc

Physics and Astronomy, Michigan State University
East Lansing, MI (USA)



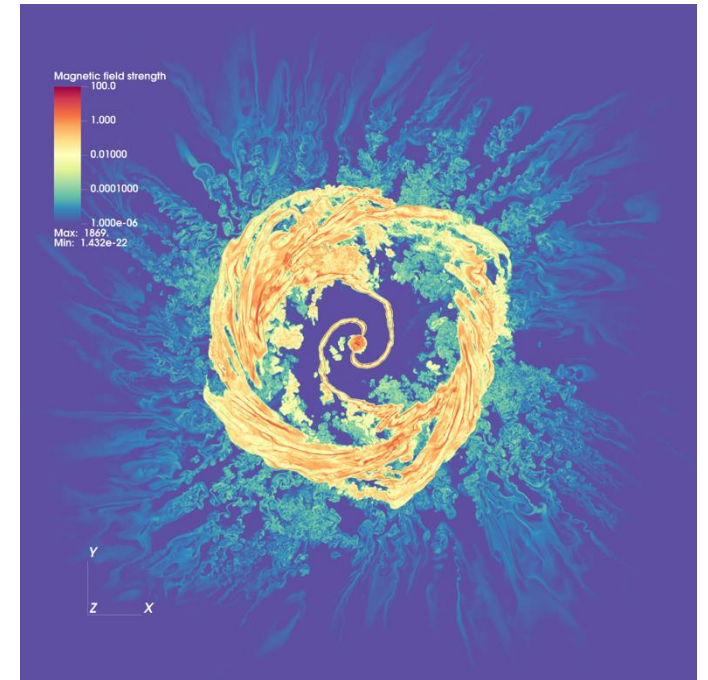
Scientific Field | Physics, Astrophysics

Research Interests

- Galaxy formation and evolution
- Magnetohydrodynamics
- Stiff kinetics solvers

Personal Interests

- Bouldering
- Hiking





Jeremy Johnathan Williams

Doctoral Researcher (PhD Student)

Computational Science and Technology, KTH Royal Institute of Technology
Stockholm, Stockholm County (Sweden)



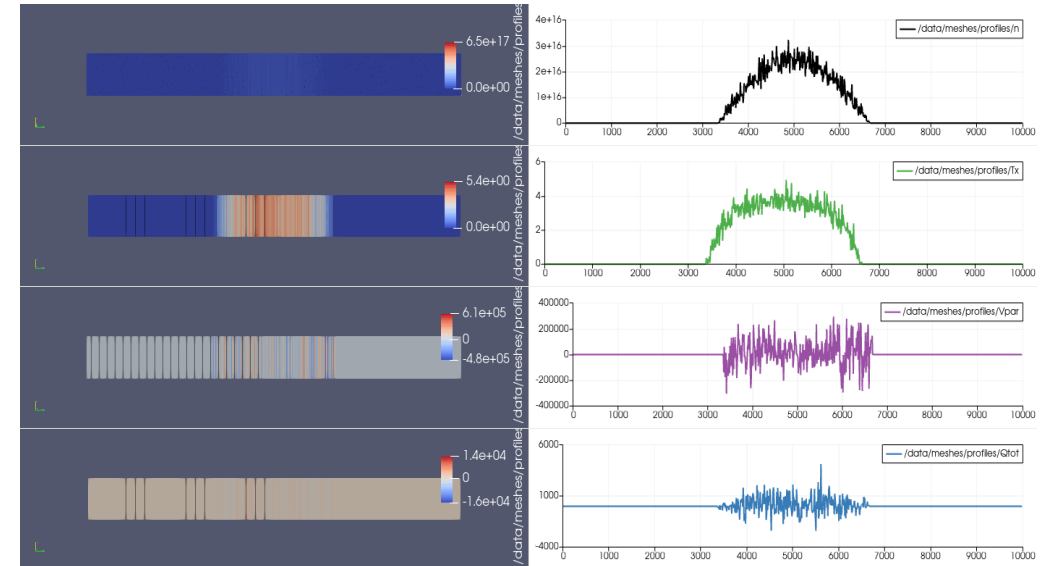
Scientific Field | Computer Science, High-Performance Computing and Visualization

Research Interests

- Performance Engineering
- High-Performance Computing, Data Analytics, and AI/ML
- Large-Scale Systems Monitoring and Resource Management

Personal Interests

- Travelling
- Social Activities





Changwen Xu

Ph.D. Candidate

Mechanical Engineering, University of Michigan
Ann Arbor, MI (USA)



**ELECTROCHEMICAL ENERGY
GROUP**

Scientific Field | Materials Science, Materials Discovery, Design, and Synthesis

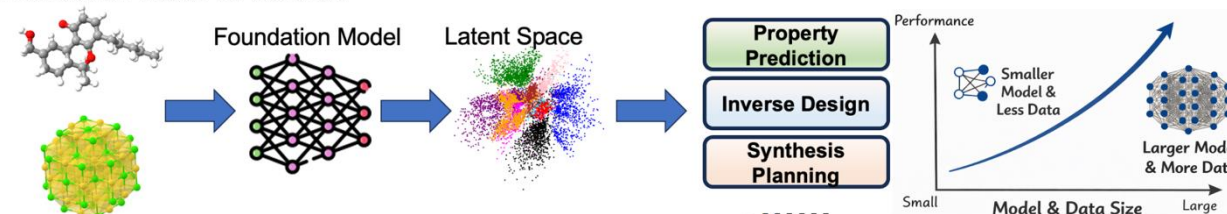
Research Interests

- Scientific Machine Learning
- Agentic AI
- Foundation Model for Science

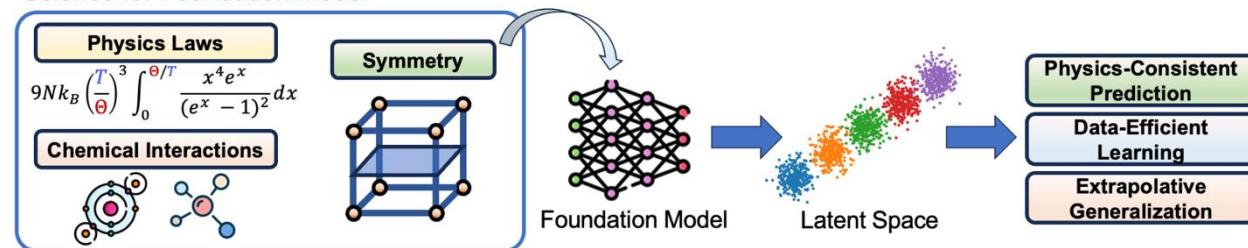
Personal Interests

- Soccer
- Basketball

Foundation Model for Science



Science for Foundation Model



Real-World Co-Development & Validation





Kiran Yalamanchi

Associate Research Scientist

Transportation and Power Systems, Argonne National Laboratory

Lemont, Illinois (USA)



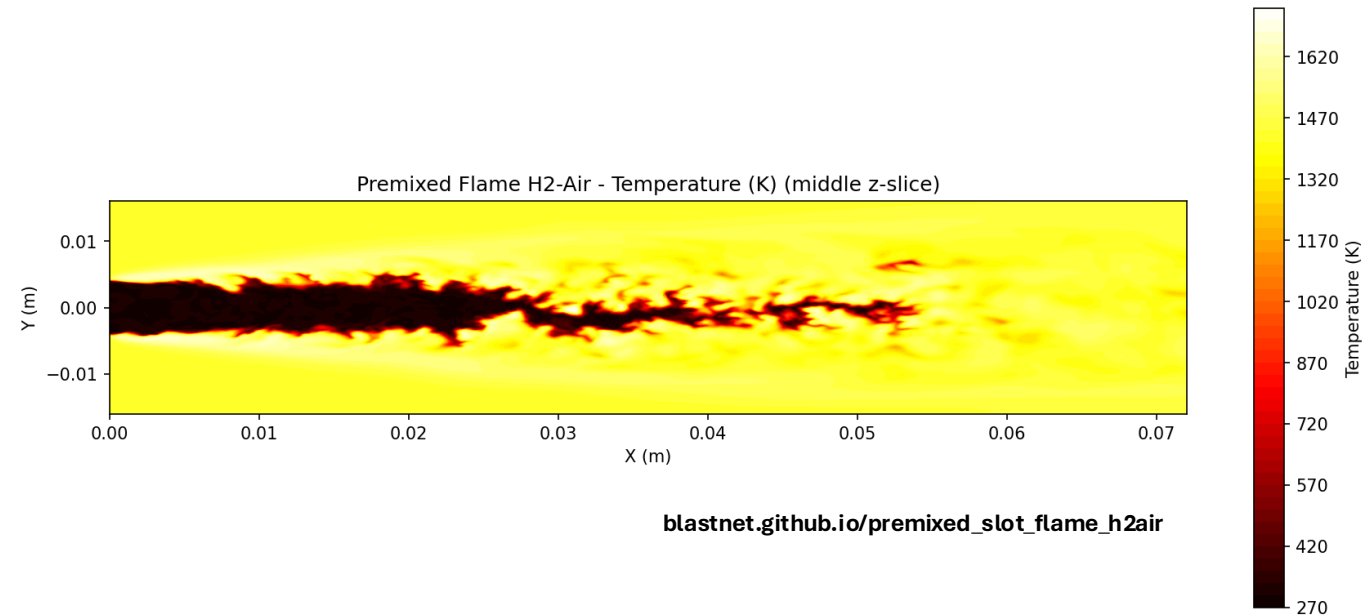
Scientific Field | Engineering, Fluids and Turbulence

Research Interests

- Combustion systems modelling
- Fuel characterization and optimization
- PDE Foundation models

Personal Interests

- Badminton
- Travelling





Shawn Zamperini

Scientist
General Atomics
San Diego, CA



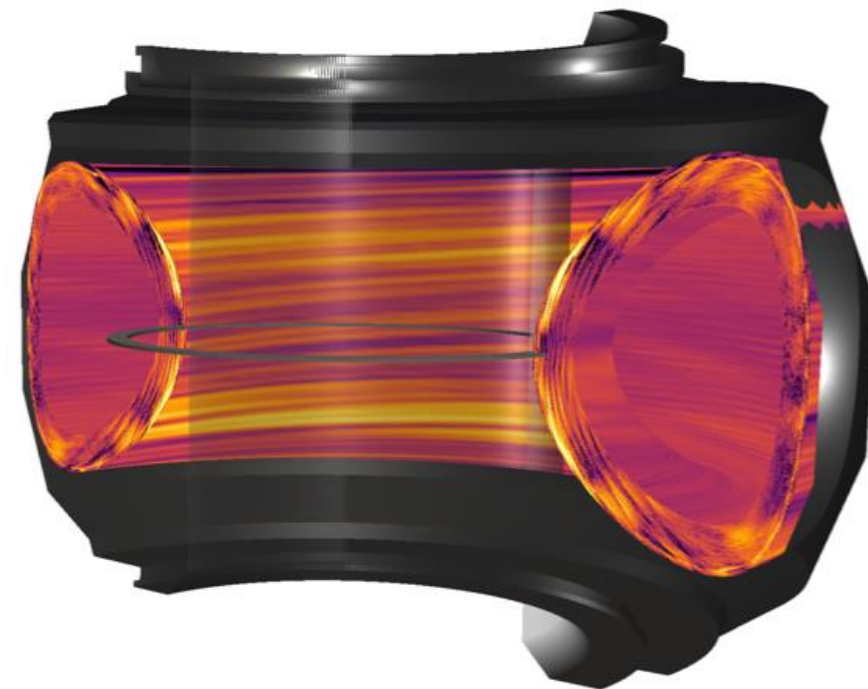
Scientific Field | Fusion Energy, Magnetic Fusion

Research Interests

- Simulation of plasma turbulence in tokamaks
- Transport of impurities into core
- Validating novel materials for fusion reactor walls

Personal Interests

- Reading, gardening, cooking, piano, hiking



Simulation of tungsten transport in the edge of DIII-D



Ryan Zapp

Ph.D. Student

Mechanical Engineering, University of Southern California
Los Angeles, CA (USA)



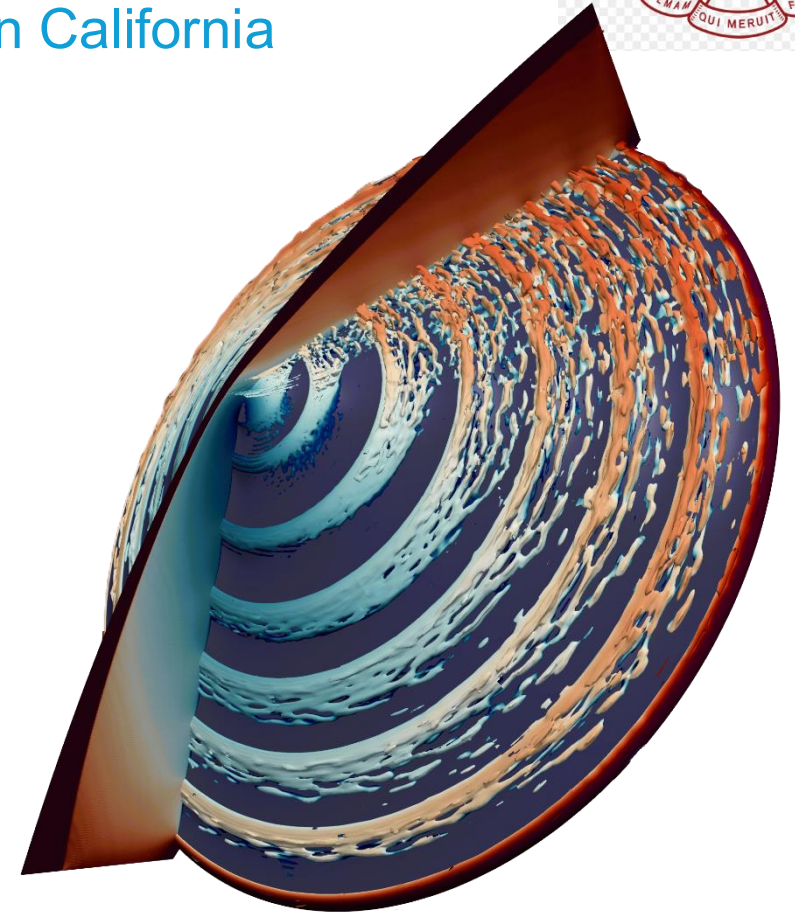
Scientific Field | Engineering, Fluids and Turbulence

Research Interests

- Wall Modeling for Transitional/Turbulent Flows
- Numerical Methods in CFD
- High-Performance Computing

Personal Interests

- Writing Music
- Graphic Novels





Benran Zhang

Ph.D. Student

Materials Science, University of Southern California
Los Angeles, California (USA)



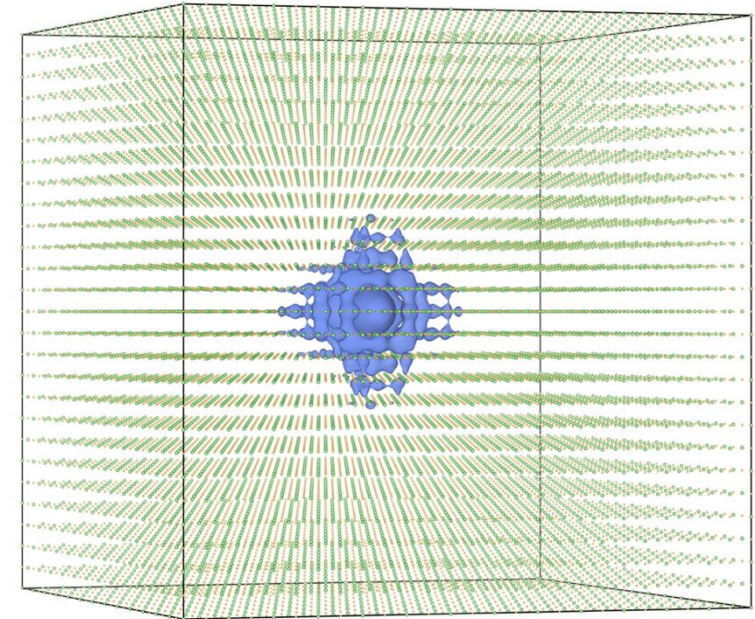
Scientific Field | Materials Science, Condensed Matter and
Materials Physics

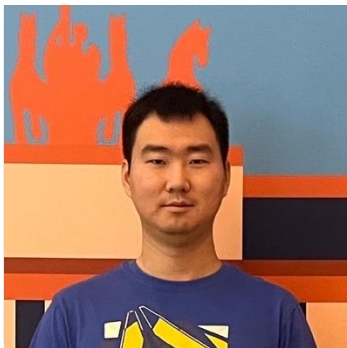
Research Interests

- Excited States Phenomenon
- High Performance Computing

Personal Interests

- Guitar
- Craft Beer





Longtao Zhang

Ph.D. Student

Dept. of Computer Science, Florida State University
Tallahassee, FL



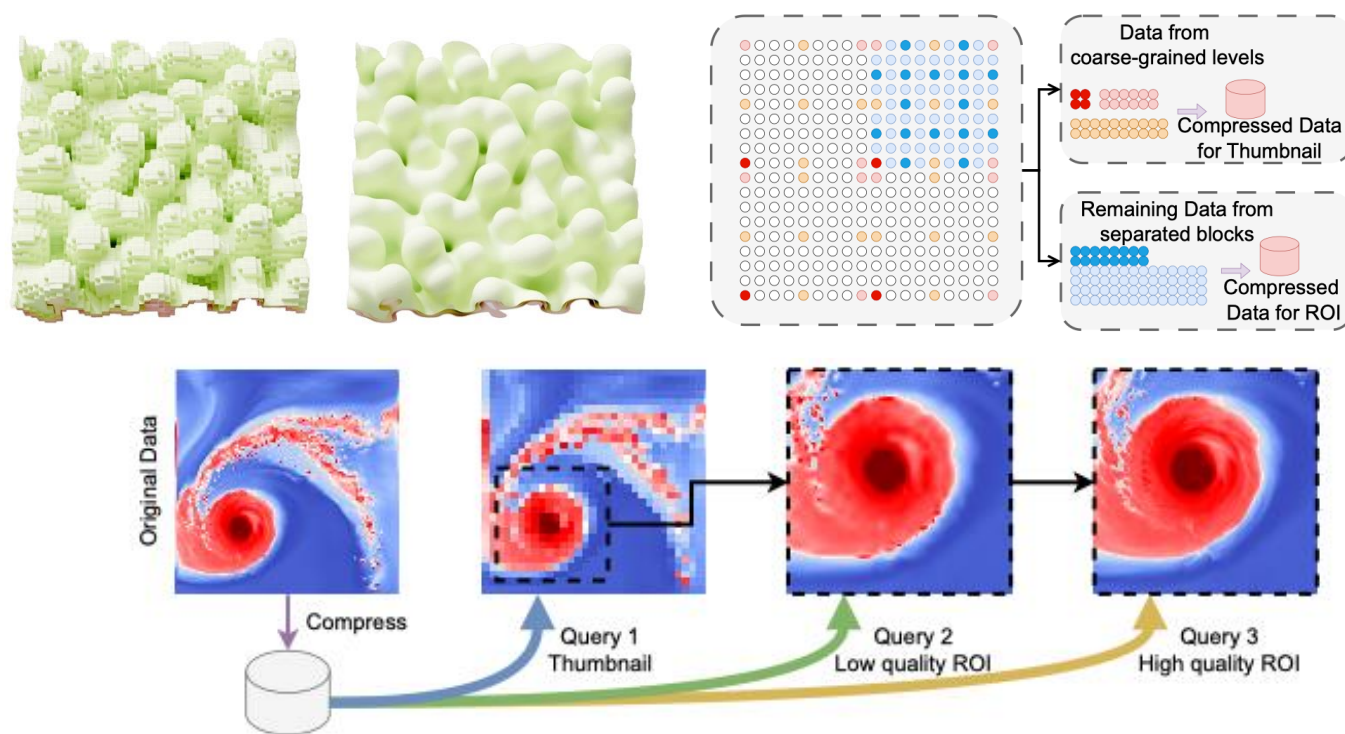
Scientific Field | Computer Science

Research Interests

- Lossy Compression
- High Performance Computing
- Parallel Computing

Personal Interests

- Gym
- Hiking





Chunheng Zhao

Research Associate
Mechanical Engineer, CCNY
New York, New York



The City College
of New York

Scientific Field | Fluids and Turbulence

Research Interests

- Fluids and Turbulence
- Fluids-Structure Interaction
- Heat Transfer

Personal Interests

- LLM Inference/Training Infra
- HPC for LLM

