

UC Laboratory Fees Research Program – 2017 Awards

List of Lead Investigators for Each Collaborating Site by Campus/Location

UC Berkeley

Ali Javey, Department of Electrical Engineering and Computer Science

Site Lead/Collaborating Investigator, *Mesoscopic 2-D materials: Many-body Interactions & Applications*

Roger Falcone, Department of Physics

Site Lead/Collaborating Investigator, *Center for Frontiers in High Energy Density Science*

Haimei Zheng, Department of Materials Science and Engineering

Site Lead/Collaborating Investigator, *Designer Mesoscale Quantum Dot Solids*

UC Davis

Sarah Stewart, Department of Earth and Planetary Sciences

Site Lead/Collaborating Investigator, *Center for Frontiers in High Energy Density Science*

Dong Yu, Department of Physics

Site Lead/Collaborating Investigator, *Designer Mesoscale Quantum Dot Solids*

Julie Soderlind, Department of Materials Science and Engineering

Magnesium Scaffolds for Biomedical Implant Applications

UC-NL In-Residence Graduate Fellow at Livermore National Lab under the faculty guidance of Subhash Risbud

UC Irvine

Matthew Law, Department of Chemistry

Principal Investigator, *Designer Mesoscale Quantum Dot Solids*

David Mobley, Department of Pharmaceutical Sciences

Site Lead/Collaborating Investigator, *Macromolecular Movements by Simulation and Diffuse Scatter*

UCLA

Chee Wei Wong, Department of Electrical Engineering

Principal Investigator, *Mesoscopic 2-D materials: Many-body Interactions & Applications*

Warren Mori, Department of Physics and Astronomy

Site Lead/Collaborating Investigator, *Center for Frontiers in High Energy Density Science*

UC Merced

Lin Tian, Department of Physics

Site Lead/Collaborating Investigator, *Mesoscopic 2-D materials: Many-body Interactions & Applications*

James Stinecipher, Department of Environmental Systems

Modeling Tropical Carbon Fluxes via Carbonyl Sulfide Uptake

UC-NL In-Residence Graduate Fellow at Livermore National Lab under the faculty guidance of John Campbell

UC Riverside

Jefferson Perry, Department of Biochemistry

Site Lead/Collaborating Investigator, *Macromolecular Movements by Simulation and Diffuse Scatter*

Alexander Balandin, Department of Electrical Engineering

Site Lead/Collaborating Investigator, *Mesoscopic 2-D materials: Many-body Interactions & Applications*

Shane Kelly, Department of Physics and Astronomy

Strongly Coupled Atomtronics

UC-NL In-Residence Graduate Fellow at Los Alamos National Lab under the faculty guidance of Shan-Wen Tsai

UC San Diego

Farhat Beg, Department of Mechanical and Aerospace Engineering

Principal Investigator, *Center for Frontiers in High Energy Density Science*

Susan Taylor, Department of Chemistry and Biochemistry

Site Lead/Collaborating Investigator, *Macromolecular Movements by Simulation and Diffuse Scatter*

Andrew Kummel, Department of Physical Sciences

Site Lead/Collaborating Investigator, *Designer Mesoscale Quantum Dot Solids*

Ren Liu, Department of Electrical and Computer Engineering

Multimodal Nanoscale Cellular Probes

UC-NL In-Residence Graduate Fellowship at Los Alamos National Lab under the faculty guidance of Shadi Dayeh

UCSF

James Fraser, Department of Bioengineering and Therapeutic Sciences

Principal Investigator, *Macromolecular Movements by Simulation and Diffuse Scatter*

UC Santa Barbara

Kaustav Banerjee, Department of Electrical and Computer Engineering

Site Lead/Collaborating Investigator, *Mesosopic 2-D materials: Many-body Interactions & Applications*

UC Santa Cruz

Jonathan Fortney, Department of Astronomy and Astrophysics

Site Lead/Collaborating Investigator, *Center for Frontiers in High Energy Density Science*

LBNL

Alex Weber-Bargioni, Molecular Foundry

Site Lead/Collaborating Principal Investigator, *Mesosopic 2D materials: Many-body Interactions & Applications*

LLNL

Yinmin Wang, Materials Science Division

Site Lead/Collaborating Principal Investigator, *Mesosopic 2-D materials: Many-body Interactions & Applications*

Frank Graziani, Department of Weapons and Complex Integration

Site Lead/Collaborating Principal Investigator, *Center for Frontiers in High Energy Density Science*

James Stineciper, UC Merced — *Modeling Tropical Carbon Fluxes via Carbonyl Sulfide Uptake*

UC-NL In-Residence Graduate Fellow under the laboratory mentorship of Philip Cameron-Smith

Julie Soderlind, UC Davis — *Magnesium Scaffolds for Biomedical Implant Applications*

UC-NL In-Residence Graduate Fellow under the laboratory mentorship of T. Yong-Jin Han

LANL

Han Htoon, Center for Integrated Nanotechnology

Site Lead/Collaborating Principal Investigator, *Mesosopic 2-D materials: Many-body Interactions & Applications*

David Meyerhofer, Physics Division

Site Lead/Collaborating Principal Investigator, *Center for Frontiers in High Energy Density Science*

Michael Wall, Department of Information Sciences

Site Lead/Collaborating Principal Investigator, *Macromolecular Movements by Simulation and Diffuse Scatter*

Victor Klimov, Department of Chemistry

Site Lead/Collaborating Principal Investigator, *Designer Mesoscale Quantum Dot Solids*

Ren Liu, UC San Diego — *Multimodal Nanoscale Cellular Probes*

UC-NL In-Residence Graduate Fellow under the laboratory mentorship of Jennifer Martinez

Shane Kelly, UC Riverside — *Strongly Coupled Atomtronics*

UC-NL In-Residence Graduate Fellow under the laboratory mentorship of Eddy Timmermans

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List of Lead Investigators for Each Collaborating Site by Project

Center for Frontiers in High Energy Density Science

Farhat Beg, Department of Mechanical and Aerospace Engineering, UC San Diego (*Principal Investigator*)

Roger Falcone, Department of Physics, UC Berkeley

Sarah Stewart, Department of Earth and Planetary Sciences, UC Davis

Warren Mori, Department of Physics and Astronomy, UCLA

Jonathan Fortney, Department of Astronomy and Astrophysics, UC Santa Cruz

Frank Graziani, Department of Weapons and Complex Integration, Lawrence Livermore National Laboratory

David Meyerhofer, Physics Division, Los Alamos National Laboratory

Designer Mesoscale Quantum Dot Solids

Matthew Law, Department of Chemistry, UC Irvine (*Principal Investigator*)

Haimei Zheng, Department of Materials Science and Engineering, UC Berkeley

Dong Yu, Department of Physics, UC Davis

Andrew Kummel, Department of Physical Sciences, UC San Diego

Victor Klimov, Department of Chemistry, Los Alamos National Laboratory

Macromolecular Movements by Simulation and Diffuse Scatter

James Fraser, Department of Bioengineering and Therapeutic Sciences, UCSF (*Principal Investigator*)

David Mobley, Department of Pharmaceutical Sciences, UC Irvine

Jefferson Perry, Department of Biochemistry, UC Riverside

Susan Taylor, Department of Chemistry and Biochemistry, UC San Diego

Michael Wall, Department of Information Sciences, Los Alamos National Laboratory

Mesoscopic 2-D materials: Many-body Interactions & Applications

Chee Wei Wong, Department of Electrical Engineering, UCLA (*Principal Investigator*)

Ali Javey, Department of Electrical Engineering and Computer Science, UC Berkeley

Lin Tian, Department of Physics, UC Merced

Alexander Balandin, Department of Electrical Engineering, UC Riverside

Kaustav Banerjee, Department of Electrical and Computer Engineering, UC Santa Barbara

Yinmin Wang, Materials Science Division, Lawrence Livermore National Laboratory

Han Htoon, Center for Integrated Nanotechnology, Los Alamos National Laboratory

Alex Weber-Bargioni, Molecular Foundry, Lawrence Berkeley National Laboratory

UC-National Lab In-Residence Graduate Fellows

Julie Soderlind, Department of Materials Science and Engineering, UC Davis (adviser: Subhash Risbud)

Lawrence Livermore National Laboratory (mentor: T. Yong-Jin Han)

Magnesium Scaffolds for Biomedical Implant Applications

James Stinecipher, Department of Environmental Systems, UC Merced (adviser: John Campbell)
Lawrence Livermore National Laboratory (mentor: Philip Cameron-Smith)
Modeling Tropical Carbon Fluxes via Carbonyl Sulfide Uptake

Shane Kelly, Department of Physics and Astronomy, UC Riverside (adviser: Shan-Wen Tsai)
Los Alamos National Laboratory (mentor: Eddy Timmermans)
Strongly Coupled Atomtronics

Ren Liu, UC San Diego, Department of Electrical and Computer Engineering (adviser: Shadi Dayeh)
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Multimodal Nanoscale Cellular Probes