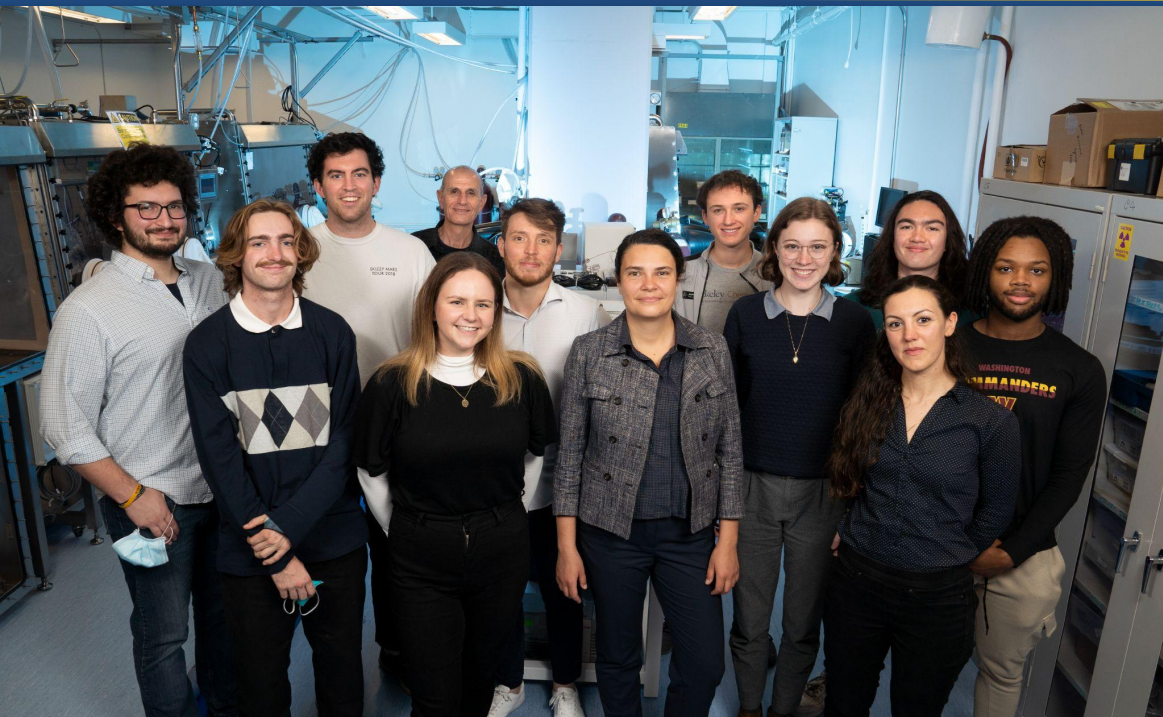


NUCLEAR SCIENCE AND SECURITY CONSORTIUM NEWSLETTER

Summer 2022



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A New Era: Introducing NSSC3

The NSSC research agenda has been redesigned to provide an integrated approach to strengthening the Nation’s nuclear security. We include five focus and two crosscutting areas, each joined across partner universities and National Labs as well as in relation to relevant projects in other focus and crosscutting areas. Research thrusts are organized around fundamental critical disciplines and broad in scope to enable the flexibility to respond to changing mission needs. Nuclear physics and nuclear data are grouped to ensure the latest advances in nuclear physics are leveraged towards high-quality nuclear data libraries for applied use. Nuclear materials science and nuclear chemical engineering have been added to enable a better understanding of alternative methods to process nuclear material and develop, construct, and test nuclear weapons. To harness recent advances in computer science for nuclear applications, computing and optimization is incorporated as a crosscutting area, which includes dedicated research projects as well as integration and engagement across all research focus areas. We incorporate new faculty, especially junior faculty, and new partner institutions to meet these nuclear R&D needs. Our nuclear security policy agenda has been refocused on educational enrichment via a workshop-in-residence at the Institute on Global Conflict and Cooperation. The initial technical tasking for the effort has been set in close collaboration with our national laboratory partners and we expect projects to evolve and adapt in line with NNSA’s Strategic Vision.

Letter from the NSSC Director

More than 10 years ago, the UC Berkeley Department of Nuclear Engineering had the vision, knowledge, and experience to assemble a multi-institutional winning team, with the UC Berkeley faculty at its core, and foster the development of science and technology underlying the nuclear security mission, with long-term investments in our greatest asset of today and tomorrow—our incredible students, who are contributing to a safer and more peaceful world. As the inaugural NNSA/DNN Consortium, the Nuclear Science and Security Consortium (NSSC) has developed a list of innovative approaches in recruiting and educating the best and the brightest, and in providing a new vision for collaborative R&D with the national laboratories by advancing research complementary to DOE lab programs in nuclear threat reduction, nuclear security and nonproliferation. As a result, 47% of students completing the NSSC program have been placed in the national labs and other government agencies, with over 90% retention rate in national and nuclear security careers.

Having that in mind, it was not a surprise that the Department of Energy's National Nuclear Security Administration awarded our team, with UC Berkeley at the helm, \$25 million for the third time to lead the NSSC over the next 5 years (2021-2026). The new NSSC phase has begun by bringing together nuclear scientists and engineers from eleven universities and five national labs, with a focus on fundamental nuclear sciences and applied nuclear science and engineering, linked by two crosscutting activities: computing and optimization for nuclear applications, and education in nuclear science, technology, and policy.

Overall, the NSSC is proud for supporting 611 people (undergraduate & graduate students, postdocs, specialists, and faculty) and for placing 143 (47%) of students and postdocs that completed the program into positions in the DOE National Laboratories or other government agencies. The NSSC has graduated 120 B.S., 85 M.S., and 139 Ph.D. student fellows and affiliates, and has supported 57 postdoctoral scholars through program completion. Scientific excellence of the NSSC teams has been demonstrated through the publication of 416 peer-reviewed manuscripts, 1,471 oral and poster presentations, and 219 excellence and innovation awards.



Prof. Jasmina Vujic
NSSC Director

The NSSC Kickoff and Advisory Board Meeting was held on April 19-20, 2022 via Zoom. The event featured updates on NSSC3 programs and accomplishments, student oral and poster presentations, and individual reports by NSSC3 Focus Area Leads. The Kickoff meeting concluded with the Advisory Board providing feedback and recommendations to the NSSC Leadership team.

The NSSC 2022 Summer Programs include the eight-week NSSC-LANL Keeping Nonproliferation Science Summer Program (June 20-August 12, 2022), the eight-week NSSC-LLNL 2022 Summer Experience for 9 NSSC Fellows and Affiliates, the Public Policy and Nuclear Threats Boot Camp (July 31-August 12, 2022, San Diego), the Nuclear Analytical Techniques Summer School (June 20-30, 2022, UC Davis), and the Nuclear Data Summer School (August 2 -12, 2022, UC Davis).

For the first time, the NSSC will offer a Laboratory Investigators Rotation that is enabling postdoctoral scholars and faculty to perform in-residence research at our partner laboratories, working under the guidance of lab scientists on projects supporting the DNN R&D mission. This summer, Assistant Prof. Raluca Scarlat will spend several weeks at LANL.

NSSC OVERVIEW

NSSC EXECUTIVE TEAM

DR. JASMINA VUJIC

Director
UC Berkeley

DR. BETHANY GOLDBLUM

Executive Director
UC Berkeley

DR. JASON HAYWARD

Deputy Executive Director
UT Knoxville

DR. KAI VETTER

NNSA Liaison
UC Berkeley

DR. LEE BERNSTEIN

Director for Laboratories
UC Berkeley

NSSC ADVISORY BOARD

DR. CAROL BURNS – Chair

Lawrence Berkeley National
Laboratory

DR. ROGER FALCONE

University of California, Berkeley

DR. MIRIAM “MIM” JOHN

Retired from Sandia National
Laboratory

LINTON BROOKS

Former Under Secretary of Energy
for Nuclear Security of the United
States

ELAINE BUNN

Former Deputy Assistant Secretary
of Defense for Nuclear and Missile
Defense Policy

DR. BRAD ROBERTS

Lawrence Livermore National
Laboratory

DR. BENN TANNENBAUM

National Nuclear Security
Administration

NSSC SUPPORT TEAM

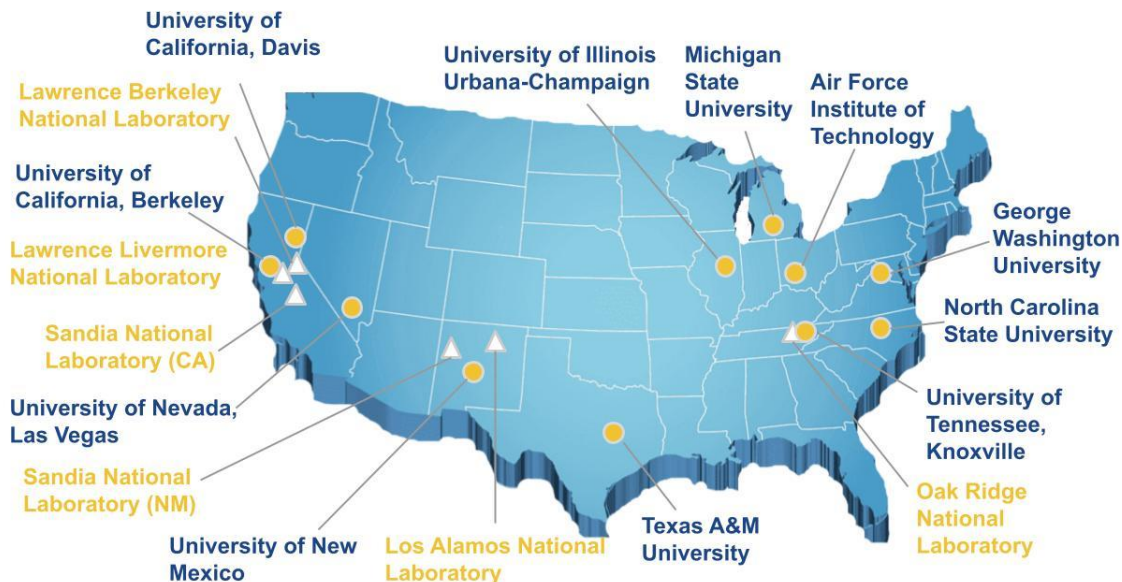
AVA BENKHATAR

Program Manager

DEREK JOHNSON

Financial Analyst

PARTNER INSTITUTIONS



PARTNER INSTITUTIONS MAIN POINT OF CONTACT COUNCIL

CHRISTOPHER CAHILL

George Washington University

ANIL PRINJA

University of New Mexico

JOHN VALENTINE

Lawrence Berkeley
National Laboratory

SEAN LIDDICK

Michigan State University

FREDERIC POINEAU

University of Nevada, Las Vegas

VLADIMIR MOZIN

Lawrence Livermore
National Laboratory

CHARLES FOLDEN

Texas A&M University

JASON HAYWARD

University of Tennessee, Knoxville

JENNIFER LADD-LIVELY

Oak Ridge
National Laboratory

MANI TRIPATHI

University of California, Davis

JIM STUBBINS

University of Illinois
Urbana-Champaign

DAVID PETERS

Sandia National Laboratory

DJAMEL KAOUMI

North Carolina State University

JUAN MANFREDI

Air Force Institute of Technology

MARGARET ROOT

Los Alamos
National Laboratory



Dr. Jasmina Vujic



Dr. Kai Vetter



Dr. Lee Bernstein



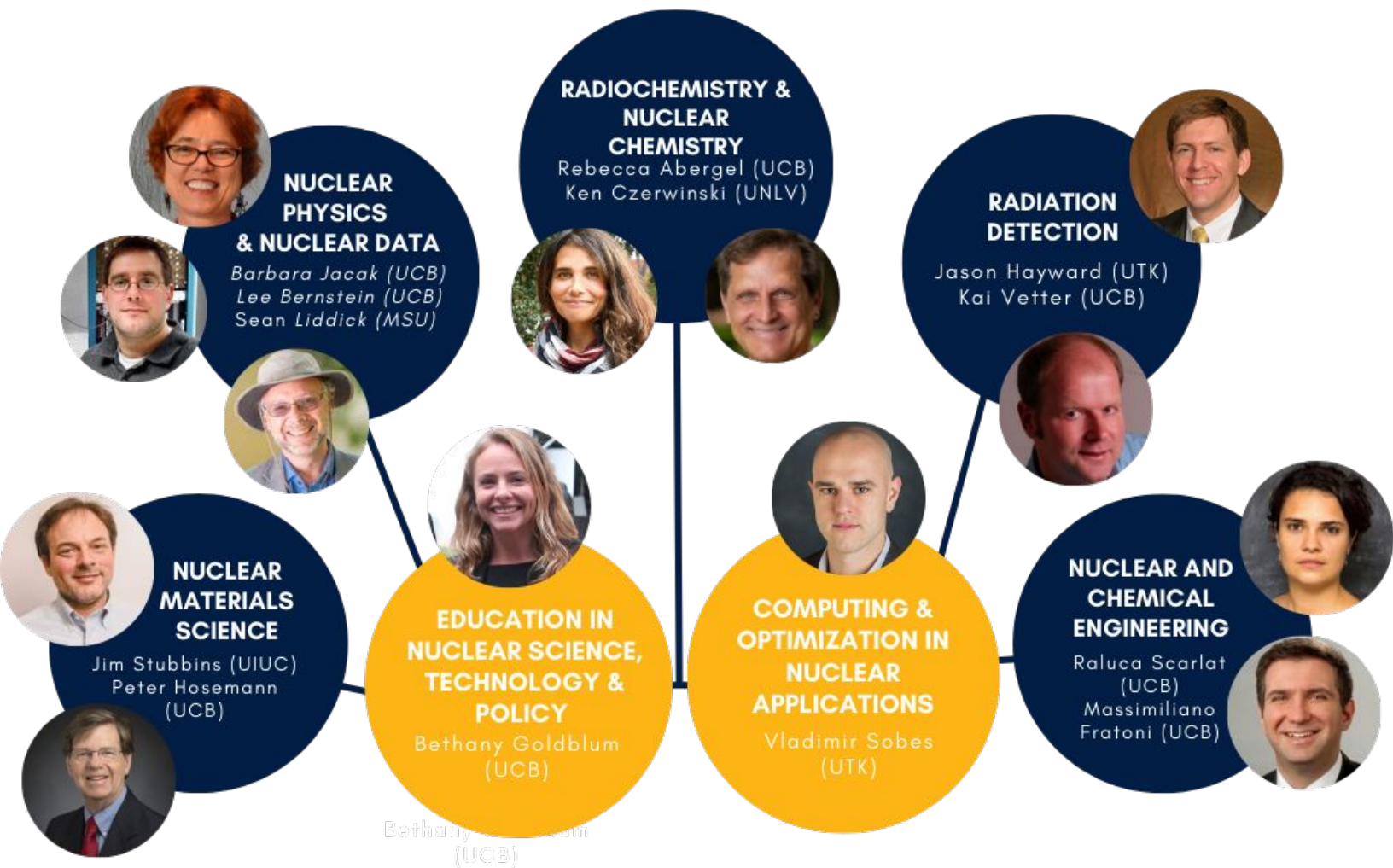
Dr. Bethany Goldblum



Dr. Jason Hayward

NSSC EXECUTIVE TEAM

NSSC Focus Areas & Crosscutting Areas



Our new consortium carries out research and development in five focus areas organized by two main themes: **fundamental nuclear sciences**, which includes nuclear physics and nuclear data, nuclear chemistry and radiochemistry, and nuclear materials science; and **applied nuclear science and engineering**, which includes radiation detection and nuclear and chemical engineering. Linking these research focus areas are two crosscutting activities: computing and optimization for nuclear applications, and education in nuclear science, technology, and policy.

NSSC FELLOW & AFFILIATE RESEARCH HIGHLIGHTS

Nuclear Physics and Nuclear Data

FOCUS AREA HIGHLIGHT

NOAH WALTON

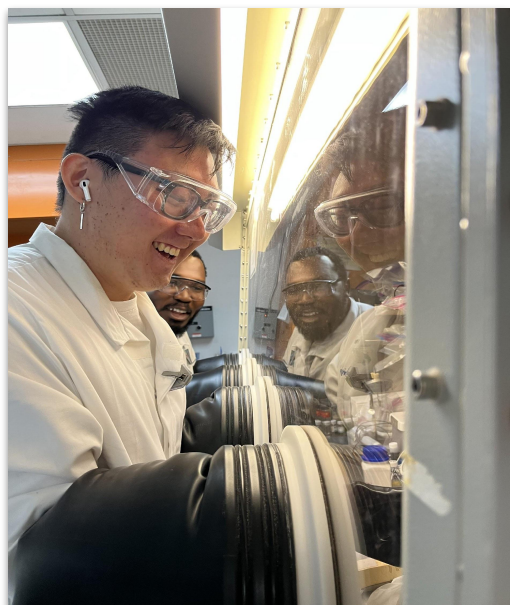
UNIVERSITY OF TENNESSEE, KNOXVILLE
NSSC GRADUATE FELLOW
Academic Advisor : Dr. Vladimir Sobes, UTK
Lab Mentor: Dr. Jesse Brown, ORNL

Noah's research seeks to leverage modern optimization algorithms and machine learning methods to automate the evaluation of experimental cross section data. Currently, the focus of his work is on the resolved resonance region as the physics are well established via R-matrix theory.



Radiochemistry and Nuclear Chemistry

CROSSCUTTING AREA HIGHLIGHT



HARRY JANG

UNIVERSITY OF NEVADA, LAS VEGAS
NSSC GRADUATE AFFILIATE
Academic Advisor: Dr. Frederic Poineau, UNLV
Lab Mentor: Sarah Hickam, LANL

Harry Jang is currently investigating the fluorination of uranium oxide microspheres for the preparation of UF_4 microspheres via ammonium bifluoride as well as UO_2F_2 microspheres via silver bifluoride. Recent findings indicate that the fluorination of UO_2F_2 microspheres via silver bifluoride is successful. The novel preparation of $(\text{NH}_4)_3\text{UO}_2\text{F}_5$ microspheres has also been indicated and further investigations are in place.

Nuclear Materials Science

FOCUS AREA HIGHLIGHT

Sarah Stevenson

UNIVERSITY OF CALIFORNIA, BERKELEY

NSSC GRADUATE AFFILIATE

Academic Advisor: Dr. Peter Hosemann, UCB

Lab Mentor: Lee Bernstein, LBNL

Sarah Stevenson's research is focused on helium ion implantation and effects characterization. She is investigating the mechanical (indentation, tensile testing) and microstructural (AFM, PALS, TEM) characterization of surface and bulk scale implantation effects. She is also working on developing an ion beam degrader for the LBL 88-Inch cyclotron.



Radiation Detection

FOCUS AREA HIGHLIGHT



AUSTIN MULLEN

UNIVERSITY OF CALIFORNIA, BERKELEY

NSSC GRADUATE FELLOW

Academic Advisor: Dr. Jasmina Vujic, UCB

Lab Mentor: Dr. Adam Bernstein, LLNL

Austin's research is focused on using wavelength shifting plates to increase the light collection of large-volume water-Cherenkov antineutrino detectors. Austin uses simulations to predict the performance of the plates in such detectors. To ensure that the simulations accurately reflect real-world conditions, he is also performing experimental measurements for validation. This includes measurements to assess the light collection of an individual plate in a dark box as well as four wavelength shifting plates in a one-ton water-Cherenkov detector.

Nuclear and Chemical Engineering

FOCUS AREA HIGHLIGHT

SASHA KENNEDY

UNIVERSITY OF CALIFORNIA, BERKELEY

NSSC GRADUATE FELLOW

Academic Advisor: Dr. Raluca Scarlat, UCB

Lab Mentor: Dr. Marisa Monreal, LANL

Sasha Kennedy works on two projects that address the safeguards and nonproliferation aspects of molten salt reactors through quantification of elements in fluoride salts via optical spectroscopy and elemental analysis methods. The goals of Sasha's elemental analysis research is to identify a digestion method to dissolve fluoride salts to identify major and minor constituent concentrations. Sasha's second project uses optical spectroscopy to determine the concentration and oxidation states of elements in fluoride salts in situ with the intention of being able to use the color of the sample to be able to predict what elements are most abundant.



Computing and Optimization in Nuclear Applications

FOCUS AREA HIGHLIGHT



LUCY LIU

UNIVERSITY OF CALIFORNIA, BERKELEY

NSSC UNDERGRADUATE FELLOW

Academic Advisor: Dr. Bethany Goldblum, UCB

Lab Mentors: Jon Whetzel, SNL

Lucy Liu's research focuses on the development of transferable machine learning models for classification of nuclear reactor power using nonradiological data from multisensor arrays. She has implemented multithreading capabilities for recursive feature addition and recursive feature elimination algorithms to enable the determination of feature importance, which enhances the interpretability and explainability of neural networks. On the Berkeley campus, she also leads a machine learning club and teaches Principles and Techniques of Data Science.

NSSC-LANL Keepin Nonproliferation Science Summer Program

JUNE 20 - AUGUST 12, 2022 | LOS ALAMOS, NM

Eight NSSC Fellows and Affiliates will spend the summer of 2022 learning about how game-changing science, engineering, and technology are applied to reduce the dynamic threats of nuclear proliferation. The NSSC-LANL Keepin Nonproliferation Science Summer Program is an eight-week extended research internship hosted by the Nuclear Science and Security Consortium and Los Alamos National Laboratory. The program provides a survey of the national laboratory activities and mission space, focused research projects with a strong connection to nonproliferation science and technology, and a companion symposium series linking nuclear security science, technology, and policy. Students will have broad exposure to LANL, access to mentors from LANL and SNL, and opportunities for lab-directed research.



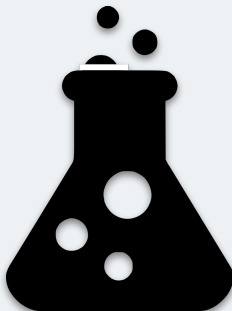
Keepin Program participants learn about the Detector for Advanced Neutron Capture Experiments at the Los Alamos Neutron Science Center



13 NSSC students worked at LANL in 2021



5 NSSC students converted to LANL staff within the past two years (3 were previous Keepin Program students!)



Numerous experiments performed annually in collaboration with LANL



Six LANL-NSSC nonproliferation talks during the Summer 2021 seminar series

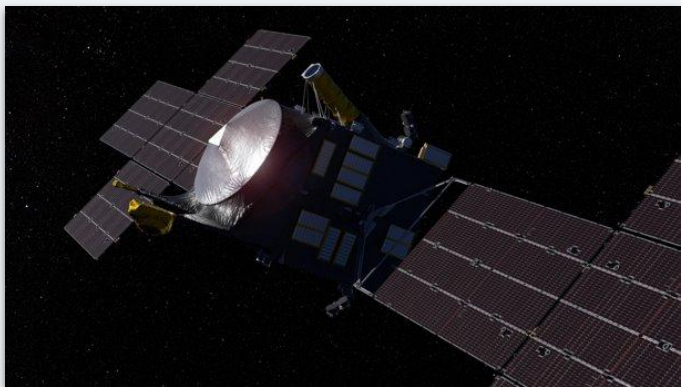
NSSC-LLNL Summer Experience

RESEARCH INTERNSHIPS | LIVERMORE, CA

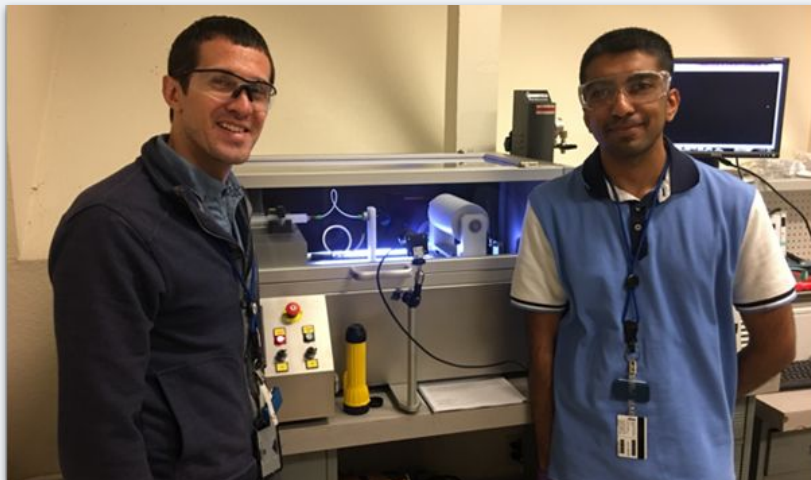
During an eight-week internship in Summer 2022, 9 NSSC Fellows and Affiliates will work directly with an LLNL staff member and collaborate with teams of experts to perform research in nuclear science and engineering supporting the nonproliferation mission. Scholars will also join activities offered under the NSSC-LLNL Summer Experience that provide insights into national security mission areas, including lectures, facility tours, and hands-on training. This new “experience” as a part of NSSC3 builds upon a decade of collaborative research between LLNL and NSSC academic institutions.



Mark Mitchell (LLNL), Prof. Juan Manfredi (AFIT), Ava Benkhatar (UCB), James McGreivy (UCB), and Dr. Vladimir Mozin (LLNL) at Lawrence Livermore National Laboratory



1st Virtual Experiment by NSSC Fellow Chris Brand, Dr. Vladimir Mozin, and Dr. Phil Kerr



Former NSSC Fellow Nanthakishore Makeswaran with his mentor Dr. James Kelly at LLNL prior to graduating with his PhD

NSSC Summer Programs

PUBLIC POLICY AND NUCLEAR THREATS BOOT CAMP

JULY 31–AUGUST 12, 2022 | SAN DIEGO, CA

The NSSC co-sponsors this summer workshop-in-residence at UC San Diego, known as the PPNT boot camp, which aims to give participants the knowledge and analytic tools to contribute to the debate on future US nuclear policy. The boot camp features lectures, discussions, debates, and policy simulations. Participants attend talks by distinguished researchers, academics, policy officials, and operational specialists from leading universities, the National Laboratories, international organizations, and government agencies dealing with nuclear threats, command and control, international safeguards, nonproliferation strategies, and other nuclear issues.



NUCLEAR ANALYTICAL TECHNIQUES SUMMER SCHOOL

JUNE 20-30, 2022 | DAVIS, CA

The Nuclear Analytical Techniques Summer School consists of some lectures, but mostly hands-on activities involving nuclear detection methods. Students perform Neutron Activation Analysis using the McClellan Nuclear Research Center, study proton elastic scattering at the Crocker cyclotron facility, gain experience and skills in counting with NaI and HPGe crystals, and learn about detectors and analysis techniques important across a broad range of science and industry.



NUCLEAR DATA SUMMER SCHOOL

A NEW NSSC3 SUMMER PROGRAM

AUGUST 1-12, 2022 | DAVIS, CA

The NSSC Nuclear Data Summer School will offer students a comprehensive overview of nuclear data as a subfield of nuclear science. Students will learn how experimental and evaluated nuclear data is generated, how its corresponding uncertainties are estimated, and how nuclear data affects scientific applications. In addition to the lecture series, this summer school will feature a lab practical where students will perform a nuclear cross section measurement at the UC Davis Crocker Cyclotron.

This lab practical will give students hands-on experience and the potential to become co-authors of a publication. A panel of scientists from the nuclear data community have been invited to give lectures on their various areas of expertise. The lecturers come from several U.S. DOE National Laboratories and affiliated research universities.



NSSC Events

NSSC KICKOFF AND ADVISORY BOARD MEETING

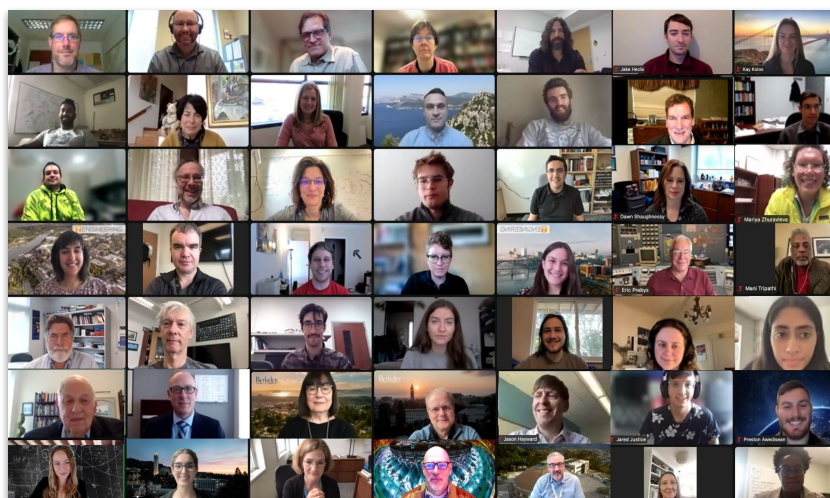
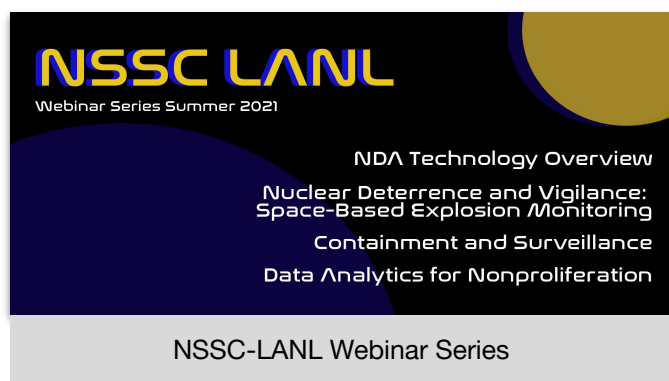
The Nuclear Science and Security Consortium Kickoff and Advisory Board Meeting was held April 19 – 20, 2022 via Zoom. The event featured updates on NSSC3 programs and accomplishments, student oral and poster presentations, and individual reports by NSSC3 Focus Area Leads. The Kickoff meeting concluded with the Advisory Board providing feedback and recommendations to the NSSC Leadership team.

NSSC MONTHLY WEBINARS AT UC BERKELEY

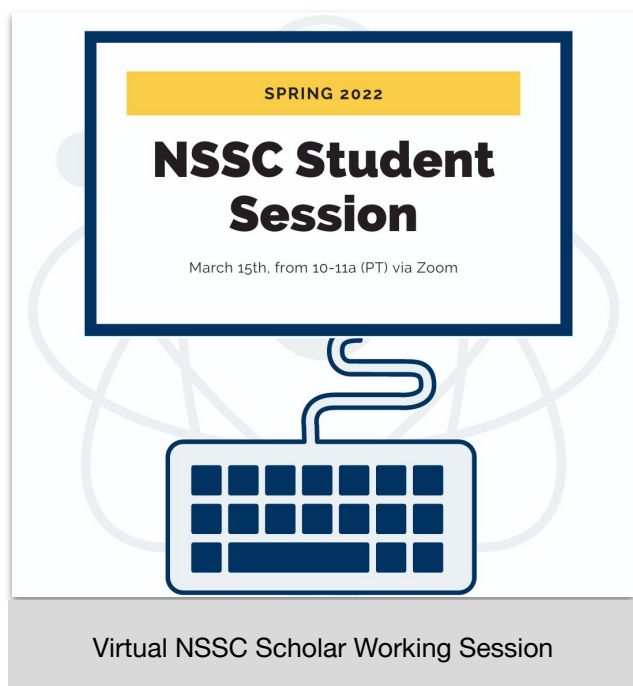
NSSC has continued to host monthly webinars. A few highlights from the past year's webinar series included the NSSC-LANL Summer Webinar Series, "Non-Destructive Characterization Techniques to Defend the US Homeland" by Dr. Steven Glenn (LLNL), and a NNSA-UK Collaboration webinar on "Novel laser-based sources and how to leverage them" given by Dr. Chris Murphy. Virtual webinars are open to all consortium academic partners.

NSSC STUDENT WORKING SESSION

Every semester, NSSC Scholars at the University of California, Berkeley meet for a working session to present updates on their research and connect. Recent working sessions have taken place virtually to comply with COVID-19 regulations.



2022 NSSC Kickoff and Advisory Board Meeting Attendees



NSSC Webinars are organized monthly!

NSSC News



US Senate confirms Dr. Kathryn Huff (former NSSC UCB Fellow) for Asst. Sec. of Energy, DOE Office of Nuclear Energy



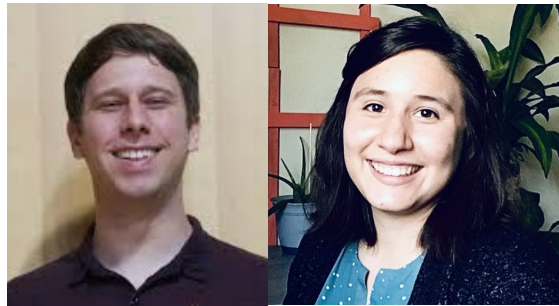
Michigan State University's Facility for Rare Isotope Beams (FRIB), a user facility for the U.S. DOE Office of Science, opened its doors to discovery with a ribbon-cutting ceremony on May 2, 2022.



MSU Students and NSSC Fellows view the first beam at FRIB from Oslo, Norway.



Asst. Prof. Angela Di Fulvio (UIUC) was named winner of the Grainger College of Engineering Dean's Award for Excellence in Research.



NSSC Fellows Benjamin Walusiak (GWIU) and Jenna Garcia (TAMU) were selected to participate in the 2022 G. T. Seaborg Institute Graduate Research Program at Los Alamos National Laboratory.



Raluca Scarlat (UCB) is among eleven members named to the DOE Nuclear Energy Advisory Committee, which advises the Secretary and the Assistant Secretary for Nuclear Energy on current priorities in the department's programs.



NSSC Fellows Kelly Kmak, Tim Genda, Jake Hecla, & Kalie Knecht were awarded "Best Paper" by the Department of Nuclear Engineering at UC Berkeley



Dr. Peter Hosemann (UCB) was named winner of the 2022 TMS Brimacombe Medalist Award.



Prof. Anil Prinja's manuscript on "Stochastic Transport Model for the Cumulative Number of Fissions and Deposited Fission Energy" was selected for publication in a special issue of *Nuclear Science and Engineering*.

NSSC Laboratory Investigators Rotation

A New NSSC3 Initiative

LAUNCHING SUMMER 2022 | ON-SITE AT THE NATIONAL LABS

The NSSC Lab Investigators Rotation is designed for postdoctoral scholars, faculty, and faculty-student teams. To establish strong relationships between University faculty and national lab scientists that transcend the award performance period, NSSC postdoctoral scholars and Assistant Professors will participate in assignments at partner laboratories for a period of 6-8 weeks with the goal of establishing new research collaborations, nurturing existing ones, and deepening University-Lab connections. We anticipate that these laboratory rotations will facilitate the transfer of new ideas, concepts, and technologies between our institutions and serve to “grease the wheels” for student engagement and employment at the labs.

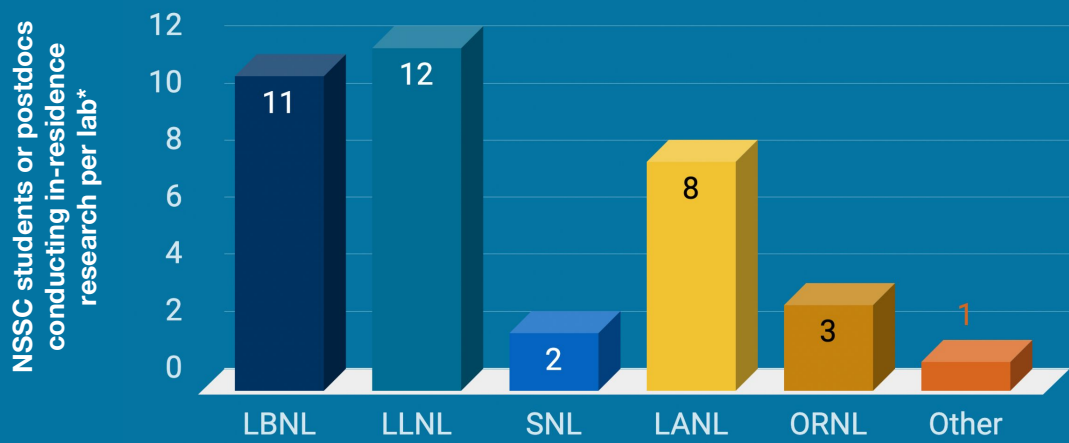


Assistant Prof. Raluca Scarlat (UCB) will participate in the NSSC Lab Investigators Rotation in Summer 2022 at LANL. She joins her graduate student, NSSC Fellow Sasha Kennedy, who will attend the 2022 NSSC-LANL Keepin Nonproliferation Science Summer Program.

Raluca Scarlat is an Assistant Professor at UC Berkeley Department of Nuclear Engineering since 2019. She received B.S. in Chemical Engineering from Cornell University in 2006, and Ph.D. in Nuclear Engineering from UC Berkeley. Her research includes the chemistry, electrochemistry and physical chemistry of high-temperature molten salts and materials, molten salt corrosion, as well as high-temperature chemistry of graphite and other non-oxide ceramics. Her research is highly relevant for advanced reactors such as fluoride-salt-cooled high-temperature reactors (FHRs) and Molten Salt Reactors (MSRs), high-temperature gas cooled reactors (HTGRs), and tritium-breeding blankets for fusion systems. She is also analyzing the safety, licensing and design of nuclear reactors. In 2021, Raluca received the prestigious Mary Jane Oestman Professional Women's Achievement Award from the American Nuclear Society.

NSSC Metrics

NSSC3 YEAR 1 LAB ENGAGEMENT METRICS

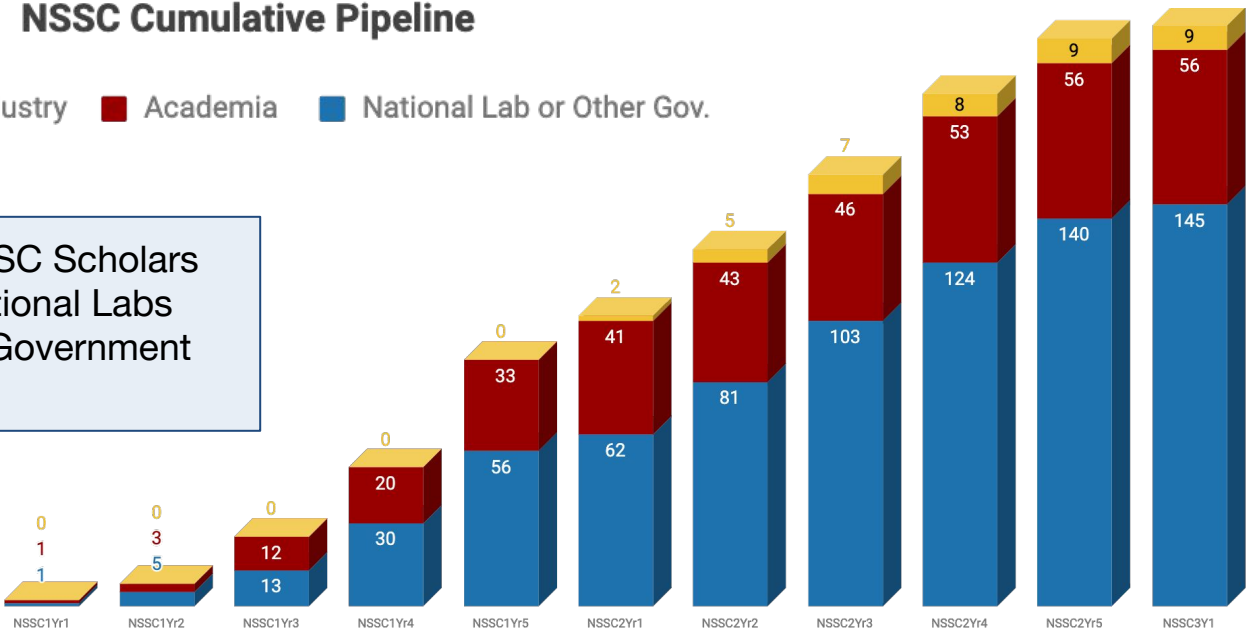


*If a student conducts in-residence research at more than one lab, they are counted towards each lab

NSSC Cumulative Pipeline

In-Field or Industry Academia National Lab or Other Gov.

47% of NSSC Scholars (143) to National Labs and Other Government Positions!



METRICS OF SUCCESS since 2011



611
Personnel
Supported



344
Degrees
Earned



219
Awards



416
Peer-Reviewed
Publications



601
Posters



912
Oral
Presentations

NSSC Pipeline Metrics (2011-Present)

NSSC Alumni Hired at the National Labs or Government Positions



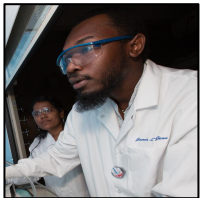
Kathryn Huff
PhD UCB
DOE
2022



Peter Huck
PhD GWU
LLNL
2022



Katherine
Luebke
PhD UNLV
LANL
2022



James
Louis-Jean
PhD UNLV
SRNL
2022



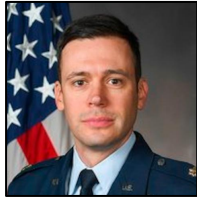
Luca Pagani
PhD UCD
PNNL
2022



Fernando
Torales-Acosta
PhD UCB
LBNL
2022



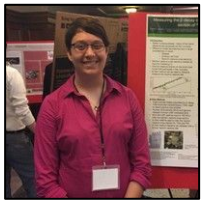
Joshua Smith
PhD UTK
LLNL
2021



James
Bevins
PhD UCB
LANL
2021



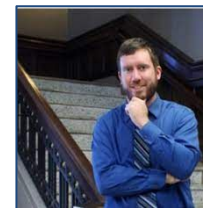
Juan Manfredi
Postdoc UCB
AFIT
2021



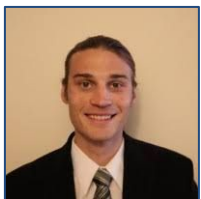
Katie Childers
PhD MSU
RSL
2021



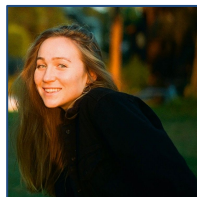
Jake Tibbetts
Masters UCB
Intelligence
2021



Caleb Redding
PhD UTK
ORNL
2021



Eric Nelius
Masters UTK
SNL
2021



Paulina Wheeler
Bachelors UCB
NASA
2021



Rebecca Lowe
PhD UNLV
NNSS
2021



Carl Britt
PhD UTK
PNNL
2021



Andrea Richard
PhD MSU
LLNL
2021



Jason Matheny
Masters UCB
LANL
2021

NSSC Pipeline Metrics (2011-Present)

NSSC Alumni Hired at the National Labs or Government Positions



Cordell Delzer
PhD UTK
LANL
2021



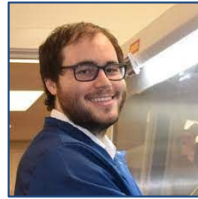
Kelly Kmak
PhD UCB
LLNL
2021



Roy Ready
PhD MSU
US Naval
Research Lab
2021



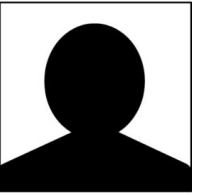
Brian Champine
PhD UCB
LLNL
2021



Kevin Glennon
PhD TAMU
LLNL
2021



Hi Vo
PhD UCB
LANL
2021



John Ash
PhD MSU
TRIUMF
2021



Jon Balajthy
PhD UCD
SNL
2020



Jackie Dorhout
PhD UNLV
LANL
2020



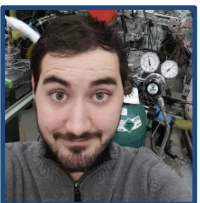
Athena Gallardo
PhD UNLV
LANL
2020



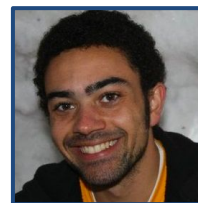
Teal Pershing
PhD UCD
LLNL
2020



Rebecca
Krentz-Wee
PhD UCB
IAEA
2020



Brenden
Longfellow
PhD MSU
LLNL
2020



Micah Folsom
PhD UTK
LBNL
2020



Andrew
Reddie
Postdoc UCB
SNL
2020



Max Wallace
Bachelors
UCB
LLNL
2020



August
Ridenour
PhD GWU
NRL
2020



Stephanie
Lyons
Postdoc MSU
PNNL
2020

NSSC Pipeline Metrics (2011-2022)

NSSC Alums Hired at the National Labs or Government Positions



Adriana Sweet
PhD UCB
LLNL
2020



Tucker
McClanahan
PhD UTK
LANL
2020



Eleanor Comer
Masters UTK
Y-12 National
Security Complex
2020



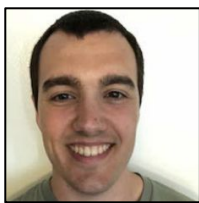
Terri
Poxon-Pearson
PhD MSU
NNSA
2020



Travis Smith
Masters UTK
State of
Nebraska
2020



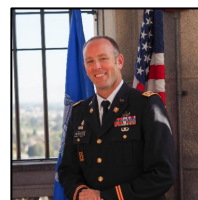
J.R. Powers-Luhn
PhD UTK
PNNL
2020



Daniel Votaw
Masters MSU
LANL
2019



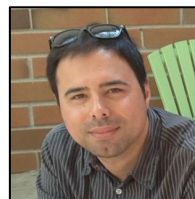
Caroline
Hughes
Masters UCB
PNNL
2019



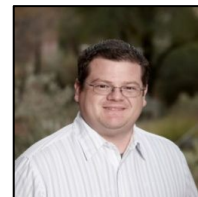
Keith McManus
PhD UCB
NNSA
2019



Daniel Hellfeld
PhD UCB
LBNL
2019



Aaron
Manalaysay
Postdoc UCD
LBNL
2019



William Kerlin
PhD UNLV
LLNL
2019



Christian
Bustillos
PhD UCI
LLNL
2019



Rachel Mersch
PhD UTK
ORNL
2019



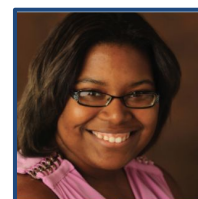
Jaclynn Unangst
PhD UCI
SNL
2019



Bradley Childs
PhD UNLV
LLNL
2019



Madhuri Kumari
PhD UCD
SNL
2019



Ardelia Clarke
PhD Fisk
PNNL
2019

NSSC Pipeline Metrics (2011-2022)

NSSC Alums Hired at the National Labs or Government Positions



Milos Atz
PhD UCB
ANL
2019



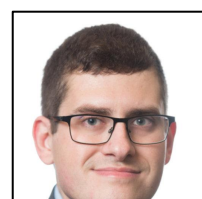
Angela Simone
Moore
PhD UTK
PNNL
2019



Michael Moore
PhD UTK
PNNL
2019



Kelsey
Ammundon
Masters UCB
LANL
2019



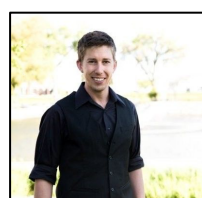
Lucas
Boron-Brenner
PhD UNLV
PNNL
2019



Sarah
Laderman
Masters UCB
IAEA
2018



Winston
Degraw
Bachelors UCB
LBNL
2018



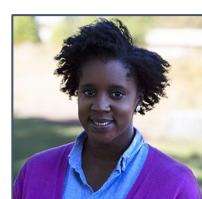
Scott Parker
PhD UCB
LANL
2018



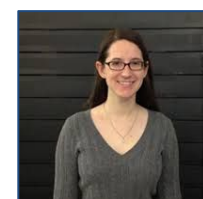
Nicole Apadula
Postdoc UCB
LBNL
2018



Elizabeth
Heckmaier
PhD UCI
LLNL
2018



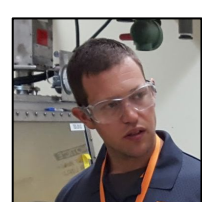
Tomi
Akindele
PhD UCB
LLNL
2018



Krystin Stiefel
PhD MSU
ORNL
2018



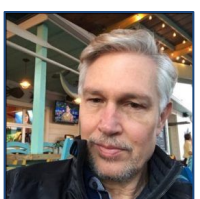
Jason Richards
PhD UNLV
ORNL
2018



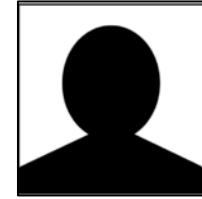
Mark Quint
Masters UTK
U.S. Army
2018



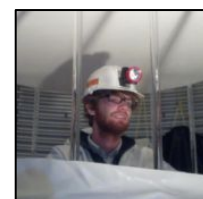
Daniel Harding
PhD UTK
Norfolk Naval
Shipyard
2018



Maxwell
Sherrod
PhD UNLV
SRNL
2018



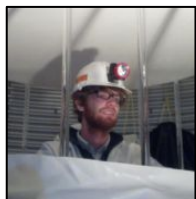
Mike Shattan
PhD UTK
AFIT
2018



Morgan Askins
PhD UCD
LBNL
2018

NSSC Pipeline Metrics (2011-2022)

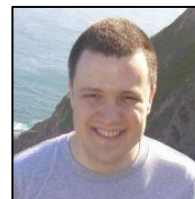
NSSC Alums Hired at the National Labs or Government Positions



Morgan Askins
PhD UCD
LBNL
2018



Matthew Tweardy
PhD UTK
NNSA at PNNL
2018



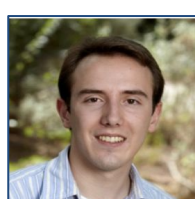
Steven Gardiner
PhD UCD
Fermi National
Accelerator Lab
2018



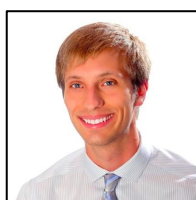
Joseph Labrum
Bachelors UCB
Intelligence
2017



Josh
Despotopulos
Graduate UNLV
LLNL
2017



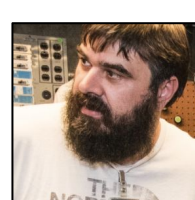
Marc Fitzgerald
PhD UNLV
LLNL
2017



Leo Kirsch
PhD UCB
LLNL
Spring 2017



Joe Belarge
Postdoc MSU
MIT Lincoln Lab
2017



Josh Brown
PhD UCB
SNL
Fall 2017



Gian Surbella
PhD GWU
PNNL
Spring 2017



Jessica Roche
Bachelors UCB
LLNL
2016



Nicole Larson
Bachelors MSU
INL
2016



Anthony Juarez
UCB
SNL
2016



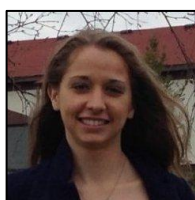
Thomas
Halverson
Masters UCB
West Point
2016



Scott Suchyta
PhD MSU
Postdoc UCB
RSL
2016



Eva Uribe
PhD UCB
SNL
2016



Kalee Hammerton
PhD MSU
Savannah River
2016



Keenan Thomas
Masters UCB
LLNL
2016

NSSC Pipeline Metrics (2011-2022)

NSSC Alums Hired at the National Labs or Government Positions



Chris Morse
PhD MSU
LBNL
2016



Quinlan Smith
Masters UNLV
ORNL
Spring 2016



Derek McLain
PhD UNLV
ANL
2016



Janelle Droessler
PhD UNLV
LANL
2016



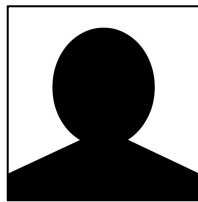
Nick Bricker
Masters UCB
LBNL
2016



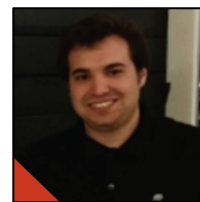
Charles Loelius
Masters MSU
NNSA | PNNL
2016



Nick Walsh
Postdoc UCD
LLNL
2016



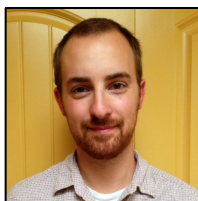
Christopher
Prokop
PhD MSU
LANL
2016



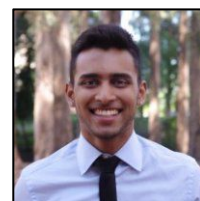
Michael Jones
PhD MSU
LBNL
2016



Sergey Uvarov
Masters UCD
LLNL
2016



David Weisz
PhD UCB
LLNL
2016



Uday Mehta
Bachelors UCB
LLNL
2016



Barbara Wang
Postdoc UCB
LLNL
2016



Caleb Roecker
PhD UCB
LANL
2016



Ross Barnowski
PhD UCB
LBNL
2016



Christopher Brand
Bachelors UCB
LLNL
2015



Marc Bergevin
Postdoc UCD
LLNL
2015



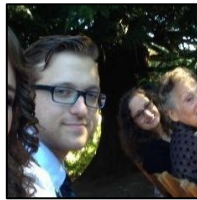
Andrew
Haefner
PhD UCB
LBNL
2015

NSSC Pipeline Metrics (2011-2022)

NSSC Alums Hired at the National Labs or Government Positions



Timothy Shokair
Postdoc UCB
LLNL
2015



Ross Meyer
Bachelors UCB
LBNL
2015



Andrew Wysong
Masters UCB
LLNL
2015



David Sweeney
Postdoc UCB
DTRA
2015



Tenzing Joshi
PhD UCB
LBNL
2015



Justin Munson
PhD UCB
LLNL
2015



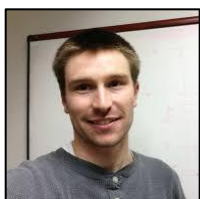
Sherry Faye
PhD UNLV
LLNL
Spring 2015



Deepa Khatri
Bachelors UCB
NNSA/LFO
2014



Maryline Ferrier
PhD UNLV
LANL
2014



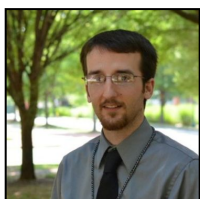
Steven Stroberg
PhD MSU
TRIUMF
Spring 2014



Andrew Gillick
Masters UCB
Army
2014



Anthony Lubbers
Bachelors UCB
LLNL
2014



Alex Braatz
PhD UCI
ORNL
2015



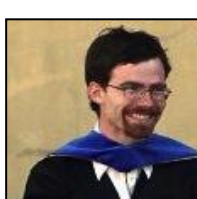
Perry Chodash
PhD UCB
LLNL
2015



Duane Smalley
Postdoc MSU
LANL
2014



Matthew Proveaux
Masters UCB
PNNL
2014



Tim Aucott
PhD UCB
SRNL
2014



Keri Campbell
PhD UNLV
LANL
2014

NSSC Pipeline Metrics (2011-2022)

NSSC Alums Hired at the National Labs or Government Positions



Jeromy Tompkins
Postdoc MSU
NSCL
2014



Audrey Roman
PhD UNLV
LANL
2014



Victor Negut
Bachelors UCB
LBNL
2014



Cameron Bates
PhD UCB
LANL
2014



Jeremy Mock
PhD UCD
LBNL
2014



Brian Plimley
PhD UCB
LBNL
May 2014



Jenna Smith
PhD MSU
TRIUMF
Spring 2014



Anagha Iyengar
Bachelors UCB
NSA
2014



Quinn Looker
PhD UCB
SNL
2013



Adam Rice
Masters UCB
Intelligence
2013



Ligang Bai
Postdoc UNLV
ANL
2013



Paul Davis
Postdoc UCB
NSA
Spring 2013



Brian Daub
Postdoc UCB
LLNL
2013



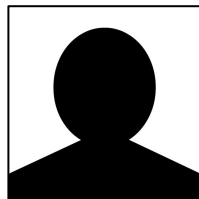
Jonathan Plaue
PhD UNLV
LANL
2012



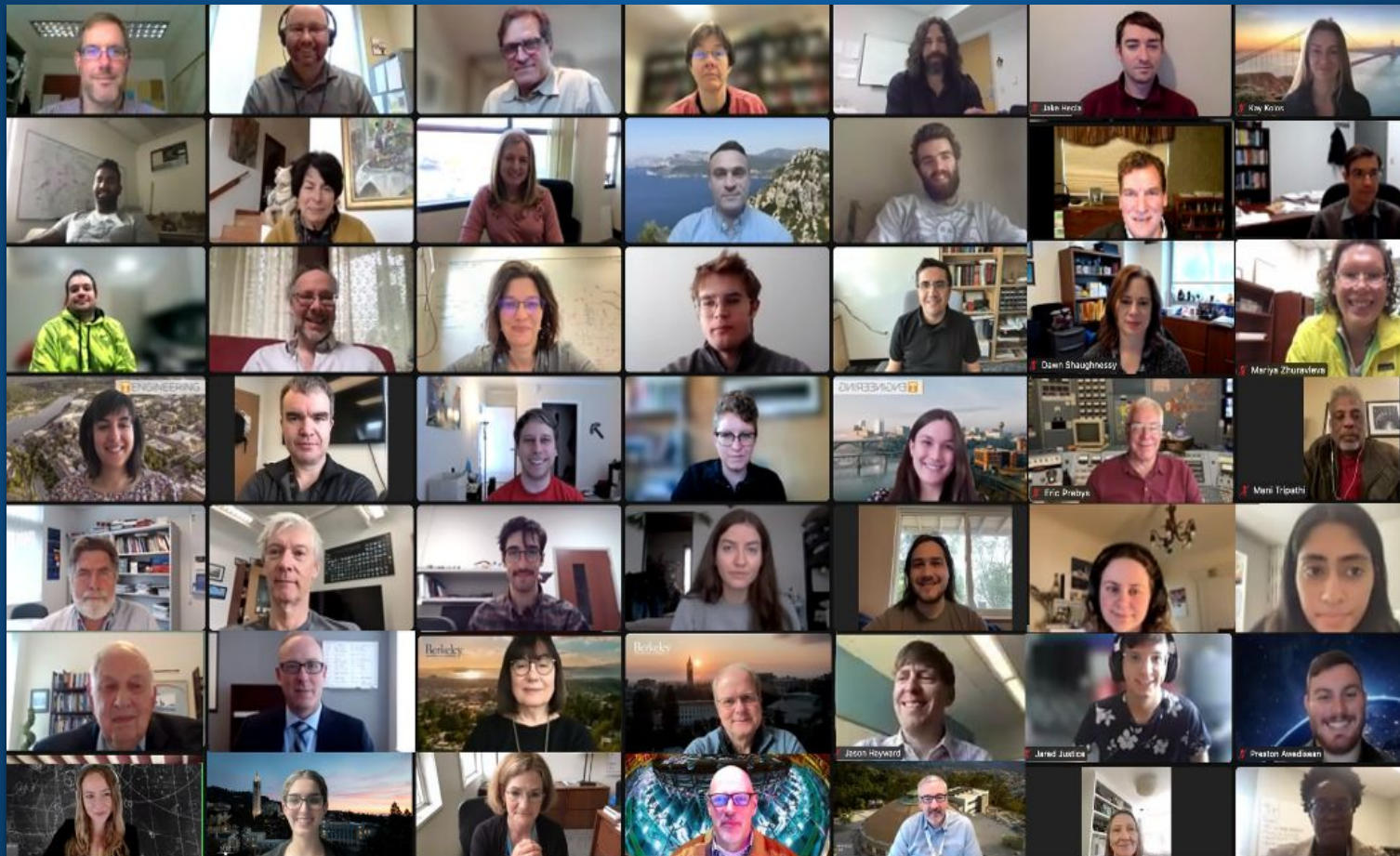
Alexander Dixon
Bachelors UCB
US Navy
2012



Noah Fischer
Bachelors UCB
LANL
2012



Joshua Meyers
PhD UCB
LLNL
2012



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