

Lisa Marie DeBeer-Schmitt
R&D Associate
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Summary:

Lisa DeBeer-Schmitt is a R&D Associate in the Neutron Scattering Division at Oak Ridge National Laboratory. She has worked in the NSD for over 10 years in a variety of positions which has given her a broad perspective for both scientific needs of the instrument and with regards to operations. For the past five years, she has been the point of contact/Lead instrument scientist of GP-SANS. She has successfully guided GP-SANS through three major upgrades: new collimator boxes, data acquisition and reduction software. Through these upgrades, she has maintained her research and expanded her focus of using SANS to study magnetic features in a multitude of materials (spin textures, skyrmions, vortex lattices in unconventional superconductors). She has become well known at ORNL for her expertise in SANS-based magnetism. Additionally, she has been using SANS to investigate engineering materials including the efficacy of masks (face coverings) and functional properties of High Entropy Alloys. This has enabled her to support a broad diverse user community. She has also become more active in scientific societies and taking on a leadership role as Communication Secretary in the Neutron Scattering Society of America.

Education:

University of Notre Dame	Physics	Ph.D.	2008
University of Notre Dame	Physics	M.Sc.	2005
Georgia Southern University	Physics	B.Sc.	2003

Research and Professional Experience:

2017-present	Point-of-contact for GP-SANS, Neutron Scattering Division, ORNL
2015-2017	Lead Instrument Scientist of GP-SANS, Chemical and Engineering Materials Division, ORNL
2011-2015	Scientific Associate for SEQUOIA, SNS Beamline Operations Division, ORNL
2010-2011	Sample Environment Team Lead, Sample Environment Group, ORNL
2009-2010	Senior R&D Staff Member, Materials Science and Technology Division, ORNL
2003-2009	Research Associate, Department of Physics, University of Notre Dame

Professional Affiliations

American Physical Society (member since 2002)
GMAG Focus Group (member since 2008)
GMAG Topical Session Organizer (2021)
Member - Neutron Scattering Society of America, AAAS
Communication Secretary (2021-2025)
Editorial Board Member – *Frontiers in Physics* (2019 -2021)
Editorial Board Member – *IEEE Magnetic Letters* (2020)

Honors and Awards

ORNL Supplement Performance Award (2013)

Graduate and Postdoctoral Advisors:

Graduate Advisor (University of Notre Dame): Dr. Morten Eskildsen
Postdoctoral Advisor (Oak Ridge National Laboratory): Dr. Kenneth Littrell

Postdoctoral Scholars:

Ryan A. Desautels (2018-2019), now at SEAGATE, Inc.

Graduate Student mentored:

Lazar Kish (2019-2021), SCGSR Fellowship
Cameron Jorgenson (2021-2022), SCGSR Fellowship

Undergraduate Student mentored:

Garrett Moormann (Spring 2021), SULI Fellowship
Sarah Godrey (Summer 2021), SULI Fellowship

Miscellaneous:

Invited Speaker - "Small-angle Neutron Scattering lecture," APS ORNL NXSchool, Oak Ridge, TN, June 2020
Invited Speaker - " Current and future investigations of large-scale structures at ORNL SANS instruments",
Quantum Materials Young Investigators Meeting, Oak Ridge, June 2019,2020

Publications:

Complete list: <https://orcid.org/0000-0001-9679-3444>