

Efrain E. Rodriguez

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Appointments at UMD

Professor, Department of Chemistry and Biochemistry	2022 - present
Associate Professor, Department of Chemistry and Biochemistry	2018 - 2022
Assistant Professor, Department of Chemistry and Biochemistry	2012 - 2018
Affiliate Professor, Department of Materials Science and Engineering	2013 - present
Affiliate Professor, Department of Physics	2015 - 2018
Core Faculty Member, Maryland Quantum Materials Center	2019 - present
Faculty Member, Chemical Physics Program	2013 - present
Faculty Member, UMD NanoCenter	2014 - present
Graduate Program Director for Chemistry,	2018 - 2021

Other Employment

National Research Council Post-Doctoral Fellow NIST Center for Neutron Research, National Institute of Standards and Technology Gaithersburg, MD	2009-2012
Graduate Research Assistant Los Alamos National Laboratories (LANL) Los Alamos, NM	2005-2008
Post-baccalaureate Researcher Manuel Lujan Neutron Scattering Center, LANL Los Alamos, NM	2003-2004

Educational Background

PhD. Materials Science, Department of Materials University of California, Santa Barbara, CA	2009
B.S. Materials Science, Department of Materials Science and Engineering Massachusetts Institute of Technology, Cambridge, MA	2003

Research Fellowships, Prizes and Awards

University of Maryland Distinguished Scholar Teacher Award	2023
Alexander von Humboldt Fellowship for Experienced Researchers	2022
Margaret C. Etter Early Career Award in Crystallography	2019
National Science Foundation CAREER Award	2015
Research and Scholarship Award from the University of Maryland Graduate School	2013
National Research Council Postdoctoral Fellowship Award	2009

Leadership Positions in Professional Societies

American Institute of Physics, Board of Directors	2019-2024
Neutron Scattering Society of America, Executive Committee	2020-2023

Society for the Advancement of Chicanos/Hispanics and Native Americans in Science, member and faculty co-adviser 2021-present
U.S. National Committee for Crystallography (USNC/Cr), Chair of Nominations and Public Relations Subcommittees 2020-2023

Recent Campus Service

Tobin J. Marks Lecture on Chemical Discovery, chair 2019-present
Faculty Task Force Committee 2020
Ad hoc committee for the new Chemistry Building 2016-present
Chemistry Faculty Search Committee 2019-2020
President's Advisory Committee on Conflict of Interest 2022-2025
Senate Programs, Curricula, and Courses Committee 2018-2020
Materials Science and Engineering Faculty Search Committee 2019-2020
Search Committee for NanoCenter Director 2017

Books

Books Edited
Fundamentals of Quantum Materials: A Practical Guide to Synthesis and Exploration
J. Paglione, N. Butch, and **E. E. Rodriguez**
World Scientific, New Jersey, 2020
ISBN: 978-981-121-937-5

Refereed Journals Articles

More than 90 publications total
h-index = 30, i10-index = 63, citations: 2983 (from Google Scholar)

Keynote Talks

- *Richard D. Green Science and Mathematics Award and Lecture*
California State University at Long Beach 2020, Long Beach, CA
- Plenary talk "*Hard Matter Science of Synthesis: Where are We Headed?*"
Neutron Scattering User Group Meeting, ORNL 2019, Oak Ridge, TN
- Etter Award talk "*Hydrogen Bonding and Symmetry Relationships in Quantum Materials*"
Annual Meeting of the American Crystallographic Association 2019, Covington, KY

Invited talks, more than 70 since 2012.

Representative workshops co-organized

- "*Interaction of X-rays and Neutrons with Matter*" 2019—2023
National School on X-ray and Neutron Scattering Oak Ridge, TN
- *Fundamentals of Quantum Materials*, co-organizer 2017—2023
6-day workshop and school on Synthesis of Quantum Materials College Park, MD

Student and Postdoc Research Advising

- Undergraduate, have advised 16 undergraduate researchers in my laboratory.
- Advised two Master's students.
- Have advised and graduated 10 PhD students.
- Currently advising 6 PhD students.
- Have served on 35 PhD committees not including those of my own PhD students.
- Have advised 4 postdoctoral research associates.