DR EMILIE RINGE

Professor of Natural and Synthetic Nanomaterials Department of Materials Science and Metallurgy, Department of Earth Sciences, University of Cambridge, UK

Web : https://www.on.msm.cam.ac.uk; E-mail : er407@cam.ac.uk

EDUCATIO	N	
Ph.D.	Northwestern University, Evanston, IL, USA Chemistry & Materials Science Research advisors: Profs. Richard P. Van Duyne and Laurence D. Marks Thesis Title: <i>Building the Nanoplasmonics Toolbox through Shape Modelling and</i> <i>Single Particle Optical Studies</i>	2012
Certificate	Northwestern University, Evanston, IL, USA Kellogg Certificate in Management for Scientists and Engineers	2011
B.A. / M.S.	Northwestern University, Evanston, IL, USA Inorganic Chemistry (transfer from McGill), Summa Cum Laude Research advisor: Prof. James A. Ibers Thesis Title: <i>Structure Determination and Characterization of UCuOP, UCu</i> _{0.6} <i>Sb</i> ₂	2008
	and UFeSe ₃ , Three Uranium Compounds Containing a First Row Transition Metal McGill University, Montreal, Qc, Canada Two out of three years towards Bachelor of Science in Chemistry	2006
RESEARCH		
	Synthetic and Natural Nanomaterials, Department of Materials Science and MSM), Department of Earth Sciences (ES), University of Cambridge, UK	2022-
	ofessor in Multi-Scale, Multi-Dimensional Imaging of Natural and Synthetic ISM & ES, University of Cambridge, UK	2018-
	istant Professor, Department of Chemistry, Laval University, Qc Canada	2020-
•	istant Professor, Department of Chemistry, Rice University, USA	2018-
	ofessor, Department of Materials Science and NanoEngineering (MSNE), of Chemistry, Applied Physics Program, Rice University, USA	2014-2018
	llow, MSM & Trinity Hall, University of Cambridge, UK	2012-2013
	udent, Northwestern University, Evanston, IL, USA	2008-2012
	earcher, University of Melbourne, Melbourne, VIC, Australia (3 months)	2011
	ate Researcher, Northwestern University, Evanston, IL, USA	2006-2008
Intern Phar	maceutical Formulation Researcher, Full time, Merck, Kirkland, Qc, Canada	2005-2006
FELLOWSH	IIPS AND SCHOLARSHIPS	
Gott Junior	Research Fellowship, Trinity Hall, University of Cambridge	2012
	rnational Research Fellowship, Royal Society	2012
	Fellowship, Northwestern University	2011
	Il Research Fellowship, University of Melbourne	2011
	ecial Merit Fellowship, Northwestern University	2010
	rrett Scholarship, Northwestern University	2007
0	ate Research Grant, Northwestern University	2007
	nnen Scholarship, McGill University	2005
	ONS AND AWARDS	2004
	d for Innovation in Applied Microscopy for Engineering, Physical and Material Science	
	Engineering News Talented 12 of Physical Chemistry C and ACS PHVS L acturashin Award	2021
	of Physical Chemistry C and ACS PHYS Lectureship Award rofessor Award, Scholar-Athlete Banquet (selected by Matthew Calem)	2021 2017
	Excellence in Graduate Research, Northwestern University	2017 2012
	According in Oraquate Acorarcii, moraliwesterii Oliiveisity	2012

Anna Louise Hoffman Excellence Award, Iota Sigma Pi Society for Women in Chemistry	2012
Featured in the Office for Research Excellence in Research Report, Northwestern University	
Best Poster Award, 5th International Conference on Surface Plasmon Photonics	
Best Poster Award, Noble Metal Particles Gordon Research Conference	
Phi Beta Kappa, Northwestern University	
B. A. Summa Cum Laude, with Departmental Honors, Northwestern University	
Dean's Honor List, Northwestern University	
Marple-Schweitzer Memorial Award, Northwestern University	
Award for Outstanding Suggestion on Procedure Improvement, Merck Frosst	

RESEARCH AND TEACHING GRANTS

Engineering and Physical Sciences Research Council Impact Accelerator, 3 months, 2025, £2	25,000
European Research Council Proof of Concept Grant, 1 year, 2025-2026, €150,000	
Engineering and Physical Sciences Research Council, Magnesium Nanoparticles: Earth-Abund	lant
and Biocompatible Thermoplasmonics (MagNanoThermo), 2 years, 2022-2024, £553,895	
Royal Society International Exchange Grant (Host), Plasmonic Nanosensor for Detecting and	
Curing Disease with SERS Optophysiology, 2 years, 2021-2023, £12,000	
Royal Society of Chemistry , Shape and Twinning in Body-Centered Tetragonal Nanoparticles, 3 months, 2021, £2,790	3
Fonds de recherche du Québec - Nature et technologies (FRQNT), Shedding Light on Lyme	
Disease, one Diagnostic at a Time, 3 years, 2021-2024, (Co-I) CA\$150,000	
Institute of Physics Public Engagement Grant, 1 year, 2019-2020, £1,500	
Royal Society of Chemistry Outreach Fund Small Grant, 1 year, 2019-2020, £1,500	
European Research Council Starting Grant, 5 years, 2019-2024, £1,412,815	
Engineering and Physical Sciences Research Council Strategic Instrument Grant, Time-reso	lved
cathodoluminescence scanning electron microscope, 3 years, 2018-2021, (Co-I) £2,808,154	
Binational Science Foundation Start-up Grant, 2 years, 2017-2019, \$75,000	
Trinity College Dublin Visiting Professor Fund, 2018, €750	
3M Non-Tenured Faculty Award , 3 years, 2017-2020, \$45,000	
Air Force Office of Scientific Research Young Investigator Award, 3 years, 2017-2020, \$360.	,000
Rice University Creative Venture Fund, 1 year, 2017-2018, (Co-I) \$75,000	
American Chemical Society Petroleum Research Fund, Doctoral New Investigator Grant, 2 2016-2018, \$110,000	years,
National Science Foundation (NSF) Industry/University Collaborative Research Centre, 2 y	ears,
2016-2018, \$60,000	
Materials Research Society Outreach Grant, 1 year 2015-2016, \$6,700	
Rice CERCL Course Development Grant, 6 months, 2014, \$2,000	
SCIENTIFIC AND PUBLIC SERVICE & OUTREACH (KEY EFFORTS BOLDED)	
SuperSTEM Advisory Board	2024-
Associate Editor, APL Materials (AIP Publishing)	2024-
Proposal Reviewer, Newton International Research Fellowships, The Royal Society	2020
Editorial Advisory Board, The Journal of Physical Chemistry C	2021-2023
Section Chair of Plasmonics, SciX	2021-2024
Mineral Physics Group Committee Member, Mineralogy Society of Great Britain	2019-2014
Proposal Reviewer, US Army Research Lab Distinguished Postdoctoral Fellowship Program	2019-2022
Editorial Board Member, Materials Chemistry Frontiers (RSC)	2019-2023
Expert Evaluator, Marie Sklodowska-Curie Individual Fellowships (MSCA-IF)	2019, 2022
Symposium Organizer, American Chemical Society Fall Meeting (PHYS)	2019
Symposium Organizer, SciX	2017, 2020
Symposium Organizer, PittCon	2017, 2020
Director, "The Materials Touch" outreach program	2017-
Conference Host, Texas Society for Microscopy, Rice University	2010
contenent from, forms boolety for interoscopy, the Oniversity	2010

 FEI symposium technical committee, Imaging at core to pore scales, Houston Proposal Review Board Member, Research Associateship Program, National Academies Proposal Review Board Chair, National Centre for Electron Microscopy, Lawrence Berkeley National Laboratory (LBNL) 	2015 2015-2022 2016-2018
Proposal Review Board Member, National Centre for Electron Microscopy, LBNL	2014-2016
Symposium Chair, International Union of Crystallography Meeting	2014
Reviewer for ACS Publications (103 total reviews), RSC, Nature Communications	2012-
Seminar Chair, Gordon Research Seminar on Noble Metal Particles Conference	2012
Student Leader, Materials Research Centre, Northwestern University	2011-2012
Volunteer Speaker, Science Speaker Corps, Northwestern University	2009-2012
Assistant and Props Master, ETOPiA, science-themed plays, Northwestern University	2009-2011
Outreach Leader, Chute Middle School	2009
Tour Guide, High School and College visits, Merck Frosst	2005-2006
SELECTED SERVICE & OUTREACH AT CAMBRIDGE & RICE	
Deputy Head of Department for Cooperation, MSM	2025-
College Council Member, Caius	2020-2022
PIA Examiner, MSM	2020
Gates Trust Application Reviewer, MSM	2019-2023
Seminar Series Organizer, MSM	2019-
Wine Committee Member, Caius	2019-
PIII examiner, ES	2019
Laser Safety Officer, ES	2018-
PIII Examiner, MSM	2018
Faculty search committee, CHEM	2016
Director of the Electron Microscopy Centre	2015-2018
Curriculum Committee & Chair of Undergraduate Studies, MSNE	2015-2017
Keynote speaker for the Smalley-Curl Institute spring graduate student symposium, Rice	2015
Shared Equipment Authority Board Member	2014-2018
Wiess College Resident Associate	2014-2017
Gulf Coast Undergraduate Research Symposium: Attendee and judge (2014), MSNE Organizer and Keynote speaker (2015)	2014-2015

SELECTED PRESS AND MEDIA COVERAGE

Bringing Chemistry to Life Podcast, "Fuel the world with light – the wonders of nano-magnesium" (2022) MRS Bulletin, "Magnesium serves as a cost-effective, stable alternative for nanoparticle plasmonics" (2018) MRS Bulletin, "Flexible synthesis method achieves plasmon-enhanced catalysis" (2018) Wall Street Journal, "Tiny portraits of the natural world" (2016) Houston Chronicle, "With \$10 million in her pocket, Rice scientist buys microscope" (2015) Rice Magazine, "Rice University boots up powerful microscopes" (2015) Northwestern Excellence in Research Report, "Nanoparticle shape effects and modelling" (2012) Science Editor's Choice, "The shape of things to come" (2011)

PROFESSIONAL ASSOCIATIONS AND MEMBERSHIPS

Royal Society of Chemistry, Member, UK Institute of Physics, UK American Chemical Society, USA Materials Research Society, USA Iota Sigma Pi, USA

PUBLICATIONS

118 published scientific articles, full list at https://www.on.msm.cam.ac.uk/publications.html

13,902 citations as of 4th February 2025, h-index 39