Pr. Leopoldo Molina-Luna

He obtained a Bachelors Degree in Physics at Universidad de Los Andes (ULA), Mérida, Venezuela in 1999. Afterwards, he obtained a Scholarship to continue his studies in Germany, obtaining a Master´s Degree in Physics (2003) at the University of Stuttgart, Germany, and the Max Planck Institute for Solid State Research. For his PhD, he joined the Electron Microscopy and Applied Materials Science Group of Prof. O. Eibl at the Institute of Applied Physics of the University of Tübingen. From 2010-2012, he worked as a Post-Doctoral Research Fellow at the Electron Microscopy for Materials Science (EMAT) Research Group of the University of Antwerp, Belgium. His fellowship was funded by the ERC Advanced Grant Counting Atoms in nanomaterials (COUNTATOMS) of his supervisor, Prof. G. Van Tendeloo. In 2013, he joined the Technical University of Darmstadt (TU Darmstadt), as a Post-Doctoral Researcher and a Senior Scientist at the Electron Microscopy Center Darmstadt (EMC-DA). In 2018, he was awarded an ERC Starting Grant (FOXON) and was promoted to Assist. Prof., starting his own research group. In 2020, he obtained an ERC Proof-of-Concept Grant (STARE) and an MIT-Germany Seed Fund. Currently, he is Head of the Advanced Electron Microscopy (AEM) Division at the Institute of Materials Science and Head of the In Situ Microstructural Analytics Lab of the Center for Reliability Analytics (CRA) at TU Darmstadt. Prof. Molina-Luna has an h-index of 26 and has been an Invited Speaker and Symposium Organizer at numerous Conferences and Workshops worldwide. His current research interests and efforts are focused on understanding Structure-Property Correlations in Functional Materials and Devices and on the development of MEMS-based in situ/operando TEM.

Prof. Dr. Erin Tranfield

She obtained her PhD at the University of British Columbia (Canada), did a postdoc at NASA Ames Research Center (USA) and another at the European Molecular Biology Laboratory (EMBL-HD, Germany). In 2013, she moved to the Instituto Gulbenkian de Ciência to build a biological electron microscopy facility. Today her and her dedicated team support the research of Portuguese-based scientists, aiming to answer a diverse array of biological and material science questions. Erin has more than 20 years of biological electron microscopy experience with expertise in room temperature EM, cryo-immobilization, electron tomography, and CLEM. She is the President of the Portuguese Microscopy Society, the co-chair of the ESA Topical Team on Celestial Dust Toxicity, a member of the EMBL Alumni Board, part of numerous evaluation panels and she recently joined the Editorial Board of Wiley Analytical Science. In 2020 Erin founded the TechEM Seminar Series which aims to bring advanced technical seminars to EM Facility staff all over Europe and Asia.

Prof. Dr. Jascha Repp
Professor of Physics
Universität Regensburg, Institut für Experimentelle und Angewandte Physik
D-93040 Regensburg
Email: jascha.repp@ur.de
Phone / Fax: +49 (0)941 943-4201/-2754 * 18 December 1972
Scientific Career

Since 2007 Professor of Physics at Universität Regensburg, Germany
2006 – 2007 Researcher at IBM Zurich Research Laboratory
2002 – 2006 PostDoc at IBM Zurich Research Laboratory Degrees
2002 PhD in Physics, FU Berlin

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The BIST Symposium on Microscopy, Nanoscopy and Imaging Sciences is sponsored in part by:Sociedad de Microscopía de España

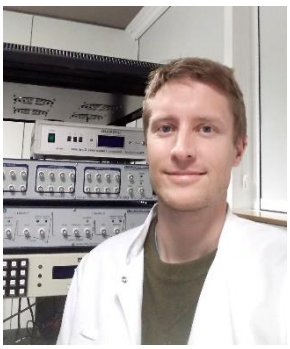
1999 Diploma in Physics, FU Berlin Awards
2021 ERC-Synergy grant
2012 Feynman Prize for Experiment jointly with Leo Gross and Gerhard Meyer
2005 Outstanding Technical Achievement Award from IBM Research for: Controlling the charge state of individual atoms

Prof. Neus Domingo

She is a Senior Scientist at the CNMS currently leading the Functional AFM Group, starting February 2022. Previously, she hold a. Distinguished Researcher position from CSIC at the Catalan Institute of Nanoscience and Nanotechnology (ICN2, Bellaterra, Spain) where she was the head of the Advanced AFM Lab and also Associate Professor of the Condensed Matter Physics Department of the University of Barcelona. She is a passionate of scanning probe microscopy of functional materials, and has specialized in electromechanical phenomena in ferroics at the nanoscale, and the physical chemistry of ferroelectric surfaces, and she is deeply interested in applications of these materials for energy harvesting into chemical reactions. She has co-authored a number of papers papers in peer-reviewed international journals (including Nature Materials or Chemical Society Reviews) and 4 book chapters. She co-chaired different conferences, including the FyT2016 in Girona, the ISFD2018 in Barcelona (Spain) as well as symposia within the MRS Fall meeting 2020. She is the Educational and Tutorials Chair of the Ferroelectrics Committee of the IEEE UFFC Society, stands in the international scientific advisory committees of PFM Workshop and “Fuerzas y Túnel”, fellow of the Spanish Royal Society of Physics and member of the American Physics Society, and served as Member of the Spanish ANEP and the European ECAS Reviewer Boards. She also serves as Senior Editorial Board Member of the Microstructures Journal.

Prof. Markus Sauer

He studied Chemistry at the University Heidelberg where he received his Diploma in 1991 and his PhD in 1995 in Physical Chemistry. 1998 he has been awarded the BioFuture Prize for Detection, Analysis and Handling of Single Molecules, which allowed him to establish his own group for single-molecule fluorescence detection and single-molecule DNA sequencing. From 2003-2009 he was Professor and chair of Laser Physics and Laser Spectroscopy at the University Bielefeld, Germany. Since 2009 he is Professor and Chair of the Department of Biotechnology and Biophysics at the Julius Maximilian University Würzburg, Germany. His research interests are single-molecule fluorescence spectroscopy and imaging with a particular focus on super-resolution fluorescence imaging by direct stochastic optical reconstruction microscopy (dSTORM) and its applications in neurobiology and immunology. He has published more than 300 journal papers and coordinates several super-resolution microscopy projects.



Prof. Jan Tonnesen

He studied Biology at the University of Copenhagen (MSc 2004), before joining the group of Prof. Merab Kokaia at Lund University for his PhD. A key part of this work was the use of electrophysiology and optogenetics to better understand experimental Parkinson's and epilepsy. After his PhD (2010), Tonnesen joined the group of Valentin Nagerl in Bordeaux, first as a postdoc and later as an Inserm staff scientist, where he established and applied STED microscopy to study the structure-function relationships of dendritic spines and the extracellular space in brain slices. Since 2016 Tonnesen is a group leader at the Achucarro Basque Center for Neuroscience in Bilbao. The group's work is honing in on the functional roles of the brain extracellular space in health and disease, combining Tonnesen's experience with experimental disease modeling, patch-clamp electrophysiology, and advanced microscopy.

Prof. Gail McConnell

She is Professor of Biophotonics at the Department of Physics at the University of Strathclyde, Glasgow, UK. Following a first degree in Laser Physics and Optoelectronics (1998) and PhD in Physics from the University of Strathclyde (2002), she obtained a Personal Research Fellowship from the Royal Society of Edinburgh (2003) and a Research Councils UK Academic Fellowship (2005), securing a readership in 2008 and Chair in 2012. The work in Gail's group involves the design, development and application of linear and nonlinear optical instrumentation for biomedical imaging, from the nanoscale to the whole organism. She is a Fellow of the Royal Society of Edinburgh, a Fellow of the Institute of Physics, and a Fellow of the Royal Microscopical Society, where she is the current Chair of the Light Microscopy Committee.

Prof. Francesca Bottanelli

She is an assistant professor in the Biochemistry department at Freie Universität in Berlin. She developed a passion for imaging and cell biology during her PhD with Dr. Jürgen Denecke at the University of Leeds (UK). She then moved to the USA to carry out post-doctoral work Dr. James Rothman and was very excited to be working on the development of super-resolution techniques (STED in particular) and their application to cell biological questions. During her post-doctoral work, she developed novel labelling strategies for multi-color live-cell STED imaging (in collaboration with Dr. Joerg Bewersdorf lab) and applied these tools to better understand how the Golgi -the main sorting station of the cell- works. In her independent position she continues to pursue both her passions (STED and the Golgi).