

## THE TEAMS



Measuring, detecting and manipulating materials with atomic precision is one of the main research activities of **Jose Ignacio Pascual**, coordinator of the SPRING project. He is Ikerbasque Research Professor and the leader of the Nanoimaging group at CIC nanoGUNE - Spain since 2012. His research team includes **Martina Corso**, PhD. in Surface Sciences. **Jingcheng Li**, PhD. in Physical Sciences. **Jeremy Gérard Hieulle**, postdoctoral researcher and **Alessio Vegliante**, PhD student.



Developing innovative fabrication and measurement techniques, through electrical characterization is one of the research areas that **Herre van der Zant** pursues at TU Delft. Quantification of spin-spin interactions and general studies of electronic transport adds to the professional profile by his postdoctoral Researcher **Maria El Abbassi** and PhD student **Thomas Baum**.



**Diego Peña** works in organic synthesis at CiQUS (USC) in collaboration with his research group Juan de la Cierva Researcher **Fátima García**, Full Professor **Dolores Pérez Meiràs**, postdoctoral Researcher **Silvia Castro** and PhD student **Saleta Fernández**. Their role in the SPRING project is the solution synthesis of organic precursors and highly reactive molecules.



Developing of on-surface synthesis by atom manipulation is just one of the main research aspects and expertise of the team lead by **Leo Gross**, Research Staff Scientist at IBM. Together with the post-doctoral fellow, **Florian Albrecht**, PhD. students **Katharina Kaiser** and **Shadi Fatayer**, they work on cutting edge research results in quantum mechanics. As a successful industrial partner in the projects target market, IBM has an exceptional wide outreach capacity that we exploit to maximize project communication and exploitation activities.



**Arzhang Ardavan** is Professor in Physics and a Tutorial Fellow in Physics at Magdalen College, UOXF. The expertise of him and his postdoctoral Research Assistant, **Junjie Liu**, lies in continuous-wave and pulsed electron spin resonance experiments in spin-bearing molecular complexes and pulsed electron spin resonance. Their strong interest in condensed matter physics and strongly correlated electron systems and quantum magnetism adds high value to the SPRING project.



**Thomas Frederiksen**, Ikerbasque Research Professor at DIPC, leads the research team in SPRING. The group works on quantum transport theory and electronic structure methods. They use supercomputing facilities to perform large-scale simulations based on density functional theory and nonequilibrium Green's functions and develop new methodology and code implementations. The team includes Ikerbasque Research Associate **Aran-García Lekue**, Ikerbasque Research Professor **Geza Giedke**, CSIC Research Professor **Daniel Sanchez Portal**, and postdoctoral Researcher **Carlos García Fernández**.