Student Profiles

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Stefano Facchin
PhD student, Photonics centre

“There is a friendly environment in Tyndall. The people here are passionate about their work and I have a lot of freedom in my research. I would advise students not to underestimate the impact that a small, “cozy” city like Cork can have on your daily PhD routines! Tyndall’s Makerspace is great because it allows me to combine hard work and fun activities”

**PhD research:** PAM-4 56-Gb/s CMOS receiver for short reach optical interconnects

**Undergraduate degree:** Biomedical Engineering from Politecnico di Milano, Joint MSc between Politecnico di Torino, INPGrenoble and EPFLausanne

Catherine Ryan
PhD student, Micro & Nano Systems centre

“I started in Tyndall as an undergraduate student and really liked the place and the people so I was delighted to be offered a PhD position. I have gained experience in cutting-edge scientific research and teaching and also got the opportunity to travel internationally as far as Brazil and Japan. There is a wide array of research groups so it is great to learn about different topics and methods”

**PhD research:** Chitosan based interpenetrating polymer networks: synthesis, characterization and applications

**Undergraduate degree:** B.Sc Chemistry, UCC

Jan Kegel
PhD Eng Sc student, Micro & Nanosystems centre

“I wanted to do research in photovoltaics”
and related fields in an English speaking country, so when I saw a PhD position on the RENEW project advertised on the Tyndall webpages I decided to apply for it. Tyndall has a great range of fabrication and characterisation tools and the working environment is really good thanks to the friendly people working here”.

**PhD research:** Development of novel photoelectrodes for solar water splitting

**Undergraduate degree:** B.Sc. and M.Sc. Environmental Engineering/ Regenerative Energies; Hochschule

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**Joveria Baig**
PhD student, Photonics centre

“I was aware of the state-of-the-art facilities at Tyndall showcased at various conferences that I attended during my Master studies. A major reason for pursuing a PhD in Tyndall was the cultural diversity among researchers working here. Researchers from a wide variety of expertise and their willingness to share their knowledge with their peers is something I find unique about Tyndall.”

**PhD research:** Integrated tunable lasers for burst mode transmitters

**Undergraduate degree:** Erasmus Mundus Double Masters: MSc Applied Physics from TU Delft, Netherlands. MSc Laser, Plasma and Matter from Institut d’Optique Graduate School, France and University of Oxford, UK. BS Electrical Engineering from Lahore University of Management Sciences, Pakistan