Curriculum Vitae

Kalani Moore

Born 14/04/94

Annestown, Co. Waterford

Ph.D. Candidate in condensed matter physics at University of Limerick

Education:

- 2016 - Present, PhD Student with TEMUL
  "Development of analytical and in-situ Transmission Electron Microscopy methods for assessment of nano-materials"
- 2011-2015, Undergraduate: First class honours B.Sc. in Applied Physics, University of Limerick, Ireland.

Previous research:

- 2014: Research Intern at the Holst Centre, High Tech Campus, Eindhoven.
  Worked on optimising the Laser-induced-forward-transfer (LIFT) technique using ablation with a nanosecond pulsed laser to produce sub 30 um printed conductive tracks for flexible electronics.
- 2015: Final year project, University of limerick.
  Worked with Dr. Christophe Silien to create a cheap and wavelength tunable, spiral phase plate to create "donut" or "vortex" shaped beams for super resolution infrared microscopy.
- 2016: Faculty Research Assistant, Oregon State University.
  Worked with John Nabelek simulating earthquakes and characterising fault orientations from data collected around Iran in collaboration with Tehran University.

Workshops:

- Quantitative Electron Microscopy (QEM) School 2017, Montpelier, France
- Institute of Physics 2017 Spring Meet, Dublin, Ireland - Poster:"Atom-by-atom analysis of nitrogen-implanted graphene using high resolution electron microscopy (HREM)"
- Microscience and Microscopy Congress (MMC) 2017, United Kingdom - Oral Presentation, "Identification of individual dopant atoms in graphene with High Angle Annular Dark Field imaging"
- Materials in Extreme Environments, Huddersfiled 2017. Award for ”Best Poster”