AHIN ROY

Research Fellow, Advanced Microscopy Laboratory, Trinity College

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♥ Dublin, Ireland

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EXPERIENCE

Research Fellow

CRANN- Advanced Microscopy Laboratory, Trinity College, Dublin

August 2019 - Ongoing

Oublin, Ireland

• Postdoctoral research on electron microscopy of nanomaterials

Research Associate

Indian Institute of Science, Bangalore

Mov 2017 - July 2019

Pangalore, India

• Postdoctoral research on electron microscopy & simulation of nanomaterials, Grant writing, Grad student mentoring

JSPS Postdoctoral Fellow

Kyushu University, Japan

♀ Fukuoka, Japan

 Aberration-corrected atomic-scale electron microscopy & simulation of nanomaterials, maintenance of JEOL-ARM microscopes

PROJECTS

Three-dimensional nanoanalyses of catalytic nanocomposite by electron tomography
Fellow, Japan Society for Promotion of Science, MEXT, Japan

renow, Japan Society for Promotion of Science, MEAT, Japan

2015 - 2017

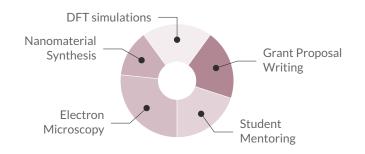
♥ Kyushu University, Japan

Engineering Photoluminescence of WS₂ through Doping and Electrical Biasing co-PI, DST, India & JSPS, MEXT, Japan

2019 - ongoing

♥ IISc Bangalore, Kyushu University

SKILLSET



EDUCATION

Ph. D

IISc Bangalore

2011 - 2015

Pangalore, India

Thesis title: Investigations of Structural and Electronic Aspects of Ultrathin Metal Nanowires

AWARDS

Best Poster Award

EMSI Meeting, Mahabalipuram, Chennai - 2017

Young Scientist Award in Physics
Dr. K. V. Rao Scientific Society - 2015

JSPS Postdoctoral Fellowship JSPS, MEXT, Japan - 2015

Gold Award, Shell India Computational Talent Prize Shell India - 2014

Science Communication Scholarship RSC & Imperial College, London - 2012

Integrated Ph. D Fellowship
IISc Bangalore - 2009

Certificate of Distinction
International Australian Mathematics
Olympiad - 2002

PUBLICATIONS

A. Roy *et al.*, Single crystalline ultrathin gold nanowires: Promising nanoscale interconnects, AIP Adv., 3, 032131 (2013)

A. Roy *et al.*, Wrinkling of atomic planes in ultrathin Au nanowires, Nano Letters, 14, 4859 (2014)

A. Roy *et al.*, Semiconductor-like sensitivity in metallic ultrathin gold nanowire-based sensors, J. Phys. Chem. C, 118 (32), 18676 (2014)

A. Roy et al., Manipulation of optoelectronic properties and band structure engineering of ultrathin Te nanowires by chemical adsorption, ACS Appl. Mater. Inter., 9, 19462 (2017)