

AHIN ROY

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EXPERIENCE

Research Fellow

CRANN- Advanced Microscopy Laboratory, Trinity College, Dublin

August 2019 – Ongoing

Dublin, Ireland

- Synthesis and electron microscopy of nanomaterials

Research Associate

Indian Institute of Science, Bangalore

Nov 2017 – July 2019

Bangalore, India

- Electron microscopy & simulation of nanomaterials, Grant writing, Grad student mentoring

JSPS Postdoctoral Fellow

Kyushu University, Japan

Sep 2015 – Sep 2017

Fukuoka, Japan

- Electron microscopy & simulation of nanomaterials, maintenance of JEOL-ARM microscopes

SPONSORED PROJECTS

Three-dimensional nanoanalyses of catalytic nanocomposite by electron tomography

Fellow, Japan Society for Promotion of Science, MEXT, Japan

2015 – 2017

Kyushu University, Japan

Engineering Photoluminescence of WS₂ through Doping and Electrical Biasing

co-PI, DST, India & JSPS, MEXT, Japan

2019 – 2021

IISc Bangalore, Kyushu University

EDUCATION

Integrated MS-Ph. D

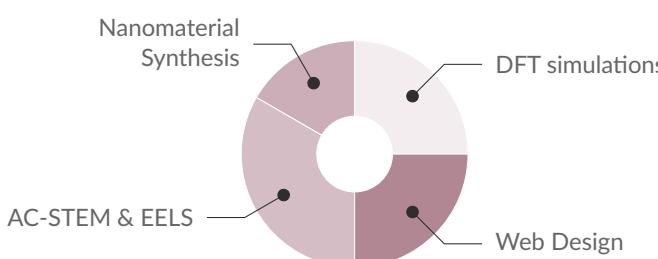
IISc Bangalore

2009 – 2015

Bangalore, India

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

SKILLSET



AWARDS

- **JSPS Postdoctoral Fellowship**
JSPS, MEXT, Japan - 2015
- **Young Scientist Award in Physics**
Dr. K. V. Rao Scientific Society - 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

SELECTED PAPERS

- Nature Nanotechnology, 16, 592–598 (2021)
- npj 2D Materials and Applications, 5, Article number: 73 (2021)
- ACS Nano, 14, 13418–13432 (2020)
- ACS Nano, 14, 5909–5916 (2020)
- ACS Catalysis 10, 43–50 (2020)
- Nanoscale 11, 22423–22431 (2019)
- Nanoscale 11, 870–877 (2019)
- Journal of Materials Chemistry C, 5, 7307–7316 (2017)
- ACS Applied Materials and Interfaces, 9, 19462–19469 (2017)
- ACS Applied Materials and Interfaces, 7, 26430–26436 (2015)
- The Journal of Physical Chemistry C, 118, 18676–18682 (2014)
- Nano Letters, 14, 4859–4866 (2014)