
SURENDRA MAHARJAN

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Department of Physics & Institute of NanoEnergy
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EDUCATION

- Ph.D. (2017)** **University of Houston, Department of Physics, Houston, TX**
(Expected) Ph.D. candidate (in progress)
Thesis: *Study of nonlinear and optical limiting properties of metal nanoparticles-graphene hybrids*
Advisor: Dr. Seamus Curran
- M.Sc. (2010)** **Tribhuvan University, Kathmandu, Nepal**
Master's Degree in Physics
Thesis: *Estimation of Black Carbon Concentration in the Kathmandu Valley and its Major Sources Identification*
Advisor: Dr. Balkrishna Sapkota
- B.Sc. (2005)** **Tribhuvan University, Kathmandu, Nepal**
Bachelor's Degree in Science (Physics, Chemistry, and Mathematics)

LANGUAGES

Written & Spoken: English, Nepali, Newari, and Hindi

PROFESIONAL EXPERIENCE

- 2015 – Present** **University of Houston, Department of Physics, Houston, TX**
Research Assistant, Institute for NanoEnergy
- 2012 – 2015** **University of Houston, Department of Physics, Houston, TX**
Teaching Assistant: Laboratory teaching of Physics 1122, fall 2012
Teaching Assistant: Laboratory teaching of Physics 1122, spring 2013
Teaching Assistant: Laboratory teaching of Physics 1102, summer 2013
Teaching Assistant: Laboratory teaching of Physics 1122, fall 2013
Teaching Assistant: Laboratory teaching of Physics 1122, spring 2014
Teaching Assistant: Laboratory teaching of Physics 1102, summer 2014
Teaching Assistant: Laboratory teaching of Physics 1102, fall 2014

2010 – 2012 Teaching Assistant: Laboratory teaching of Physics 1122, spring 2015
JHSS, Kathmandu, Nepal
High School Physics and Mathematics teacher

SKILLS AND EXPERTIES

Professional Skills: Research on low temperature physics in two-dimensional electron gas systems, electrical and optical properties of organic/inorganic nanotransistors, Photolithography, Electron Beam Lithography, Scanning Electron Microscopy, nonlinear optics, nanocomposites, material preparation and characterization, UV-vis and laser characterization

Computer Skills: Proficient in Microsoft Office, C, C++, MATLAB, Mathematica, OriginPro, AutoCad, Photoshop

RESEARCH INTEREST

- Synthesis and Characterization of Nonlinear optical materials
- Optical Limiting devices
- Nonlinear fiber optics
- Optical properties of nanocomposites

CONFERENCES/TRAININGS

2008 Participant of Special Classes on “Introductory Classes on Quantum Field Theory to String Theory (2008), Harish-Chandra Research Institute, Allahabad, UP, India

2010 Participant of Visiting Summer Program in Harish-Chandra Research Institute (2010), Allahabad, UP, India

FELLOWSHIPS/SCHOLARSHIPS

2009 Student freeship at Tribhuvan University

2012 – Present Doctoral Student Tuition Fellowship (DSTF) at University of Houston

PUBLICATIONS

Su, Guoxiong, Viktor G. Hadjiev, Phillip E. Loya, Jing Zhang, Sidong Lei, **Surendra Maharjan**, Pei Dong, Pulickel M. Ajayan, Jun Lou, and Haibing Peng. "Chemical Vapor Deposition of Thin Crystals of Layered Semiconductor SnS₂ for Fast Photodetection Application." *Nano letters* 15, no. 1 (2014): 506-513.

Najmaei, Sina; **Maharjan, Surendra**; Gao, Weilu; Su, Guoxiong; George, Antony; Amani, Matin; Dubey, Madan; Ajayan, Pulickel; Kono, Junichiro; Peng, Haibing; Lou, Jun. "Tunable Molecular Interfaces for Dynamic Electronic Transport Control in MoS₂ Atomic Layers" (2015) (***Submitted to Advanced Materials***)

REFERENCES

Dr. Seamus Curran

Doctoral Advisor
Professor, Department of Physics
Director, Institute of NanoEnergy
University of Houston, Houston, TX, 77004
Email: sacurran@uh.edu

Dr. Nigel J. Alley M.Inst.P.

Research Assistant Professor, Department of Physics
Assistant Director, Institute for NanoEnergy
University of Houston, Houston, TX, 77004
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Dr. Balkrishna Sapkota

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