

# Rajendra P Dulal, Ph.D.

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## **EDUCATION**

<i>The Catholic University of America</i> , Washington, D.C.	2017
<b>Ph.D.</b> in Physics Dissertation title: Iron and Cobalt-based Heusler Alloy Nanostructures and Their Device Applications	
<b>M.S.</b> in Physics	2014
<i>Tribhuvan University</i> , Kathmandu, Nepal 2003-2008	
<b>M.Sc.</b> in Physics	2008
<b>B.Sc.</b> in Physics	2006

## **RESEARCH EXPERIENCE**

Post-Doctoral Researcher, Institute of Quantum Studies, Chapman University	12/2018-present
Post-Doctoral Researcher, Vitreous State Laboratory, CUA	10/2017-11/2018
Graduate Research Assistant	08/2011- 09/2017
<ul style="list-style-type: none"><li>➤ have solid experience in preparation and characterization of intermetallic, magnetic multilayer thin films, semiconducting and single crystal nanowires, core-shell nanowires.</li><li>➤ Have good in skill in fabrication of nanodevices using electron-beam lithography and photolithography,</li><li>➤ Specialty in electric and Magnetic Transport Measurement</li></ul>	

## **PUBLICATIONS:**

- [1] Yashshi Kawashima, Rajendra Dulal, Serafim Teknowijoyo, Sara Chahid, Armen Gulian, Ideal diamagnetic response at room temperature by graphene-n-heptane-permalloy system, *Mod. Phys. Lett. B*, 2050415 (2020)
- [2] Armen Gulian Rajendra Dulal, Serafim Teknowijoyo, Sara Chahid, Dialogue on a superconducting laser operating via nonequilibrium inversed population, *Mod. Phys. Lett. B* 2030005 (2020)
- [3] Niraj Bhattarai, Rajendra P Dulal, Andrew Forbes, Ian L Pegg, John Philip, Molecular beam epitaxy growth of nonmagnetic Weyl semimetal LaAlGe thin film, *MRS Commun.* 10, 272 (2020)

- [4] Andrew Forbes, Rajendra Dulal, Niraj Bhattarai, Ian L Pegg, John Philip, Experimental realization and magnetotransport properties of half-metallic Fe<sub>2</sub>Si, *J. Appl. Phys* 125, 243902 (2019)
- [5] **Rajendra P Dulal**, Bishnu R Dahal, Andrew Forbes, Niraj Bhattarai, Ian L Pegg, John Philip, Weak Localization and small anomalous Hall Conductivity in Ferromagnetic Weyl semimetal Co<sub>2</sub>TiGe, *Sci. Rep.* 9, 1(2019)
- [6] **Rajendra P Dulal**, Bishnu R Dahal, Andrew Forbes, Niraj Bhattarai, Ian L Pegg, John Philip, Ferromagnetism in Fe<sub>2</sub>CrAl nanowire, ***J. Vac. Sci. Technol. B* 36**, 022902 (2018).
- [7] **Rajendra P Dulal**, Bishnu R Dahal, Andrew Forbes, Ian L Pegg, John Philip, Large magnetization and high Curie temperature in disordered nanoscale Fe<sub>2</sub>CrAl thin films, ***J. Magn. Magn. Mater.* 423**, 314 (2017)
- [8] **Rajendra P Dulal**, Bishnu R Dahal, Ian L Pegg, John Philip, Ultrahigh vacuum deposition of higher manganese silicide Mn<sub>4</sub>Si<sub>7</sub> thin film, ***J. Vac. Sci. Technol B* 33**, 060603 (2015)
- [9] Bishnu R Dahal, **Rajendra P Dulal**, Ian L Pegg, and John Philip, Topological Crystalline Insulator SnTe Nanoribbons, ***Solid State Commun.* 253**, 42 (2017).
- [10] Bishnu R Dahal, **Rajendra P Dulal**, Ian L Pegg, John Philip, Ferrimagnetic Co<sub>1+δ</sub>Te nanostructures, ***Mater. Res. Exp.* 11**, 116101 (2016).
- [11] Bishnu R Dahal, **Rajendra P Dulal**, Ian L Pegg, John Philip, Electrical Transport and Magnetic properties of Cobalt Telluride Nanostructures, ***J. Vac. Sci. Technol. B, Vol 34***, 051801(2016)
- [12] Keshab R Sapkota, **Rajendra P Dulal**, Bishnu R Dahal, Ian L Pegg, John Philip, Ferromagnetic Spin glass, and antiferromagnetic behaviors in Cd<sub>1-x</sub>Mn<sub>x</sub>Te nanowires, ***J. Vac. Sci. Technol. B* 33**, 051807 (2015)