

G.M. DINUKA HARSHANA GALLABA

Education

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Southern Illinois University Carbondale IL
PhD (Applied Physics) 2020

Southern Illinois University Carbondale IL
MS (Physics) 2014

University of Sri Jayewardenepura Sri Lanka
BS (Physics) 2010

Professional Experience

Visiting Assistant Professor of Physics, Centenary College of Louisiana, Shreveport LA	2020 Aug – Present
Teaching and Research Assistant, Southern Illinois University Carbondale, IL	2013-2020 May
Temporary Lecturer, Uva Wellassa University, Sri Lanka	2011-2012 Feb
Temporary Instructor, Department of Physics, University of Sri Jayewardenepura	2010 July -2011

Grants and Awards

Dissertation Research Assistantship Award Southern Illinois University (2019)
Doctoral Graduate Fellowship Award at Southern Illinois University Carbondale IL (2018)
Interdisciplinary Team Research Grant through Science and Technology Center at Purdue University National Science Foundation (2018 and 2019)
Graduate Student Travel Grant (IAS) for 13th Fundamentals of Adsorption Cairns Australia (2019)

Skills

Platforms: Unix, Linux and windows

Programming and scripting: Python, R, C++, SQL, Scala,

Technical Skills: Data mining, Statistical analysis and process control, Graph Analytics (Spark GraphX)

Scientific Computing: MATLAB, Mathematica, Molecular simulation in RASPA, Quantum ESPRESSO

Microcontroller Programming, circuit simulations and design

Laboratory Skills

XRD, Mass Spectroscopy (Open ion Source, RGA), UV-Vis, FTIR, BET measurements, Raman Spectroscopy, High Vacuum systems, Cryogenic Systems, Data acquisition (LabView), Highly precise PID controllers, Safety and Lab Management

References

Dr. Aldo D. Migone (Advisor)

Emeritus Professor of Physics.
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Dr. Eric Chitambar

Associate Professor
Electrical and Computer
Engineering
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Dr. Saikat Talapatra (Co-Adviosor)

Professor, Interim Chair,
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