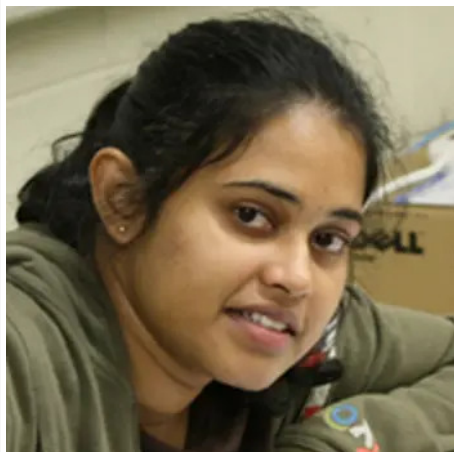




## Department of Physics Faculty of Science / University of Peradeniya



### Dr. Lahiru Koshalika Narangammana

*B.Sc. (Perad.), Ph.D. (Connecticut, USA)*

**Senior Lecturer**

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### About Me

I obtained my first degree in physics from University of Peradeniya. After graduating with a first class honors degree, I went on to pursue a doctoral degree in condensed matter physics at the University of Connecticut, USA. My doctoral thesis work involved fabrication and characterization of superconducting thin films. I have hands-on experience with many experimental techniques such as pulsed laser deposition, neutron diffraction, nuclear magnetic resonance (NMR), synchrotron and laboratory X-ray diffraction (XRD) and synchrotron and laboratory Mossbauer spectroscopy. I am interested in fabricating and characterizing new materials and devices for various technological applications.

### Higher Education Qualifications

🎓 **PhD**

University of Connecticut, Connecticut  
USA  
(2014)

🎓 **BSc**

University of Peradeniya  
Sri Lanka  
(2007)

## Awards, Scholarships, Memberships & Fellowships



Member of the American Physical Society from 2012 to 2015



University Award for Academic Excellence (University of Peradeniya, Sri Lanka, July 2007)



Ruth and Paul Klemens Fellowship (University of Connecticut, August 2008)







Dwight Hills Damon Graduate Fellowship in Experimental Physics (University of Connecticut, May 2013)

## Positions Held

-  Post Doctoral Research Fellow at Sri Lanka Institute of Nanotechnology - (2014- 2015)
-  Visiting Lecturer at ICBT Kandy Campus- (2015)
-  Senior Lecturer at Uva Wellassa University- (2015-2017)
-  Secretary of the Physics Departmental Committee- (2018/2019, 2019/2020)
-  Department Representative of University of Peradeniya Science Teacher's Association (UPSTA)- (2019/2020, 2020/2021)
-  Department Representative of the Library Committee of Faculty of Science- (2020/2021)
-  Department Representative of the Student Welfare and Advisory Committee of Faculty of Science- (2020/2021)

## My Teachings

-  PH205: Thermal and Statistical Physics
-  PH341: Semiconductor Physics and Devices
-  PH406: Statistical Physics
-  PH440: Solid State Theory

## Research Interests (Research Fields/ Projects)

Conducting polymers, Value addition to Sri Lankan natural resources like graphite and Eppawala apatite, Low cost device construction

## Ongoing Research and Projects



**Fabrication of Thermoelectric Generators using Non-toxic Materials**

## Key Publications



Appl. Phys. Lett. - (2013)

Low temperature crystal structure and large lattice discontinuity at  $T_c$  in superconducting FeTeOx films.

## Conferences



**American Physical Society March Meeting**

**HELD AT :** USA - (2012 to 2015)



**International Research Symposium Uva Wellassa University**

**HELD AT :** Sri Lanka - (2016 and 2017)



**Research Congress, Post Graduate Institute of Science, 2020 (RESCON 2020)**

**HELD AT :** Post Graduate Institute of Science (PGIS) - (26-28 November, 2020)

## My Publications

Please goto the website.

<https://sci.pdn.ac.lk/physics/staff/Lahiru-Koshalika-Narangammana>