



Dr. Nuwan Karunaratne

Position: Assistant Professor of Physics

Department: Department of Physical Sciences

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Courses Taught

Temple College

- PHYS 1401 College Physics I
- PHYS 1405 Elementary Physics I
- PHYS 2425 University Physics I

Education

- **Ph.D. in Physics**, Northern Illinois University (2014)
- **B.S. in Physics**, University of Sri Jayawardenepura, Sri Lanka (2004)

Teaching Experience

- **Temple College**, Temple, Texas, (Assistant Professor, Aug. 2025 - Present)
- **Hutto High School**, Hutto, Texas, (Physics Instructor, Aug. 2023 - May 2025)

- **Crimson Global Academy**, Orlando, Florida (Physics Instructor (remote), Dec.2020-June 2023)
- **State University of New York at Buffalo**, Buffalo, New York (Clinical Assistant Professor, Jan. 2019 – Dec. 2020)
- **Orange Coast College**, Costa Mesa, California (Adjunct Instructor, Jan. 2016 – Aug. 2018)
- **Irvine Valley College**, Irvine, California (Adjunct Instructor, Jan. 2016 – Aug. 2018)
- **Cypress College**, Cypress, California (Adjunct Instructor, Aug. 2015 – Dec. 2016)
- **Northern Illinois University**, DeKalb, Illinois (Graduate Teaching Assistant, Aug. 2008 – Dec. 2014)
- **University of Sri Jayawardenepura**, Colombo, Sri Lanka (Lecturer, Jan. 2004 – Aug.2008)

Professional Experience

- **Argonne National Laboratory (ANL)**, Lemont, Illinois (Guest Researcher – working under a grant from Northern Illinois University, May 2010 – Dec. 2014)

Professional Publications

- P.Vodnala, **N. Karunaratne**, L. B. Lurio. G.M.Thurston, M.Vega, E. Gaillard, S.Narayanan, A. R. Sandy, P. Grybos, P. Kmon, P. Maj, R. Szczygiel , W. Deptuch. Measurement of hard-sphere like dynamics in highly concentrated alpha-crystallin suspensions. Phys. Review E 97 020601(2018)
- D.K. Karumanchi, **N. Karunaratne**, L.B. Lurio, J. Dillon, E. Gaillard. Non-enzymatic glycation of alpha-Crystallin as an in-vitro model for aging, diabetes and degenerative diseases. Amino acids (2015), 47, 2601-2608.
- C. DeCaro, **N. Karunaratne**, S. Bera, L.B. Lurio, A.R. Sandy, S. Narayanan, M. Sutton, J. Winans, K. Duffin, J. Lehuta, N. Karonis. X-ray speckle visibility spectroscopy in the single-photon limit. Journal of Synchrotron Rad. (2013), 20, 332-338.

Awards

- 8th Annual Graduate Student Presentation Award, April 2014, NIU Chapter of Sigma Xi
- NIU/ANL Nanoscience Fellowship, May 2010 – Dec. 2014

Campus/Campuses

- Temple College Main Campus