Aiswarya K S

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EDUCATION

- **Indian Institute of Science Education and Research** — Thiruvananthapuram, Kerala, India
  PhD - Biomedical Instrumentation and Imaging (BII) Lab — August 2021 - Present
- **Christ College (*Autonomous*), *affiliated to* University of Calicut** — Irinjalakuda, Kerala, India
  Master of Science – Physics — July 2017 - April 2019
- **Christ College (*Autonomous*), *affiliated to* University of Calicut** — Irinjalakuda, Kerala, India
  Bachelor of Science – Physics — July 2014 - April 2017

Key Courses: Electrodynamics and Plasma Physics, Statistical Mechanics, Computational Programming, Electronics, Microprocessors and applications, Principal of Digital Imaging, Principal of Digital Imaging.

SKILLS SUMMARY

- Language : MATLAB, Python, C++
- Software : Autodesk Inventor, LaTeX
- Platforms : Ubuntu, Windows, Arduino
- Soft skills : Leadership, Programme organization, Punctuality, Effective communication (English & Malayalam)

EXPERIENCE

- **Assistant professor** (January 2020 - March 2021)
  St. Aloysius College, Elthuruth, *affiliated to* University of Calicut, Kerala, India.
  -Organized different talks and seminars
  -Key Courses: Electrodynamics, Laser Systems, Optical Fibres and Applications, Statistical Mechanics, Computational Physics, Solid State Physics, Nuclear Physics
- **Workshop on Light Sheet Microscopy and Imaging** (17 – 23rd May, 2022)
  Instrumentation and Applied Physics Department, IISc, Bangalore, India

PROJECTS

- **Development of multiple wavelength simultaneous multi-level magnification SPIM (mλ-sMx-SPIM) for biological applications** : Recent started PhD project (August 2022 – Present); Tech: Matlab, Arduino
- **Light Curve Analysis of W UMa Eclipsing Binary Systems**: Masters' Research oriented project in Astrophysics, (June 2018 - March 2019); Tech: FORTRAN, Python
- **Instrumentation of Temperature Resistance Detector**: Bachlors' project (October 2016- March 2017)

PUBLICATIONS

Aditya Kurup, Aiswarya K S, et al. "Waving away from the poison: recovery of the nuclear structure after chemotropic response in roots against poison." Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues XX. Vol. 11964. SPIE, 2022.

AWARDS/ACHIEVEMENTS

- Completed add-on course on web designing in HTML and PHP.
- Received KSCSTE Scholarship for UG & PG
- First rank in MSc Physics of 2019 batch in Christ College, Irinjalakuda

COMPETITIVE EXAM QUALIFIED

Joint CSIR-UGC NET JUNE 2020 - PHYSICAL SCIENCES- Qualified with JRF

GATE 2020 - PHYSICS (PH)

JAM 2017 - PHYSICS (PH)