



Subin Jose

CONTACT INFORMATION Chavanattu House, Moozhoor P.O, Kottayam dist, Kerala, India. 686503 Mob:+91 8019785338 subinjose22@gmail.com

RESEARCH INTERESTS Aerosol remote sensing, Aerosol cloud interaction, Aerosol radiative effect

EDUCATION **Andhra University**, Visakhapatnam, India

Ph.D., Physics, *awarded:* 2017

- Thesis Topic: *Aerosol radiative effect over an Urban location in south central peninsular India*
- Advisor: Prof. K. Niranjan

Kannur University, Kannur, India

M.Sc., **Physics**, May 2009

- Topic: *Simulation of Shrodinger wave equation for 1-D square well potential*
- Advisor: Sri. Georgekutty P. Kuriakose

B.Sc., **Physics**, May 2007

RESEARCH EXPERIENCE **Post Doc** Oct 2017 onwards
Vikaram Sarabhai Space Center,
Space Physics Laboratory, Trivandrum
Supervisor: Dr S. Suresh Babu

Senior Research Fellow Aug 2016 to Mar 2017
Dept of Physics,
Andhra University, Visakhapatnam
Supervisor: Prof. K Niranjan

Senior Research Fellow Aug 2013 to Aug 2016
National Remote Sensing Center,
ISRO, Dept of Space, Hyderabad
Supervisor: Mr. Biswadip Gharai and Prof. K Niranjan

Junior Research Fellow Aug 2011 to Aug 2013
National Remote Sensing Center,
ISRO, Dept of Space, Hyderabad
Supervisors: Mr. Biswadip Gharai

TECHNICAL SKILLS

1. Knowledge in operating, handling and data analysis of the following state of art scientific instruments: MICROTOPS-II sun photometer, Aethalometer, Nephelometer, Micropulse Lidar, Quartz Crystal Microbalance (QCM), Multi Filter Rotating Shadow band Radiometer (MFRSR), UV-MFRSR, Pyranometer, Sun/Sky Radiometer, High volume Sampler.
2. Experience in analysing satellite based products related to aerosols and related parameters from various sensors like MODIS, OMI, CALIPSO, CERES, MeghaTropiques, INSAT-3D, KALPANA-1.etc.

3. Experience with radiative transfer codes like Santa Barbara DISORT Atmospheric Radiative Transfer model (SBDART) and Optical Properties of Aerosols and Clouds (OPAC).
4. Programming Languages : Matlab, Grads, R.

REFEREED
JOURNAL
PUBLICATIONS

1. Bran S.H., **Subin Jose.**, and Rohit. S (2018). “ Investigation of optical and radiative properties of aerosols during an intense dust storm: A regional climate modeling approach”. *Journal of Atmospheric and Solar-Terrestrial Physics* (accepted).
2. **Subin Jose.**, Biswadip Gharai., and P.V.N Rao (2017). “Cross sectional view of atmospheric aerosols over an urban location, Hyderabad, in central India”. *Aerosol and Air Quality Research* doi: 10.4209/aaqr.2016.04.0154.
3. **Subin Jose.**, Gharai, B., Niranjana, K., and Rao, P. V. N. (2016). “Investigation on seasonal variations of aerosol properties and its influence on radiative effect over an urban location in central India”. *Atmospheric Environment*, 133, 41-48.
4. **Subin Jose.**, Niranjana, K., Gharai, B., Rao, P. V. N., and Nair, V. S (2016). “Characterisation of Absorbing Aerosols Using Ground and Satellite Data at an Urban Location, Hyderabad”. *Aerosol and Air Quality Research*, 16: 14271440.
5. **Subin Jose.**, Gharai, B., Rao, P. V. N., and Dutt, C. B. S. (2016). Satellite based shortwave aerosol radiative forcing of dust storm over the Arabian Sea. *Atmospheric Science Letters*, 17(1), 43-50.
6. Sreenivas, G., Mahesh, P., **Subin Jose.**, Kanchana, A. L., Rao, P. V. N., and Dadhwal, V. K.: (2016). “Influence of Meteorology and interrelationship with greenhouse gases (CO₂ and CH₄) at a suburban site of India, *Atmos. Chem. Phys.*, 16, 3953-3967, doi:10.5194/acp-16-3953.
7. Midhuna, T. M., Gharai, B., **Subin Jose.**, and Rao, P. V. N. (2016). ”Study on Regional Variations of Aerosol Loading Using Long Term Satellite Data Over Indian Region.” *Journal of the Indian Society of Remote Sensing*: 1-13.
8. **Subin Jose.**, Biswadip Gharai., Y. Bhavanikumar and P.V.N Rao, (2015). “Radiative implication of a haze event over eastern India”. *Atmospheric Pollution Research* 6 (2015) 138146.
9. Mahesh P, P.Sujatha, C.B.S Dutt and **Subin Jose** (2015). “Comparitive study of tropospheric ozone derived from satellite data using different interpolation techniques”. *International Journal of Remote sensing*.
10. **Subin Jose** and Biswadip Gharai (2014). “Study on Black Carbon and Its Characterisation at an Urban Location, Hyderabad during 2010 to 2012”. *International Journal of Environmental Monitoring and Analysis*. Vol. 2, No. 2, 2014, pp. 100-105. doi: 10.11648/j.ijema.20140202.16.
11. Gharai, B., **Subin Jose.**, and Mahalakshmi, D. V, (2013). “Monitoring intense dust storms over the Indian region using satellite data -a case study. *International Journal of Remote sensing*. 34, 70387048.

SUBMITTED
JOURNAL
PUBLICATIONS

1. **Subin Jose.**, K.Niranjana, Biswadip Gharai and P.V.N Rao (2016). “Study on temporal heterogeneities of aerosol optical properties over an urban location Hyderabad, India”. *Atmospheric Research*.
2. Sherin Hassan Bran., **Subin Jose.**, Rohit Srivastava and Biswadip Gharai (2016). “WRF-Chem simulation of an intense dust storm over the Arabian Sea”. *Atmospheric Environment*.

PAPERS IN
PREPARATION

1. **Subin Jose.**, Biswadip Gharai., and Sherin Hassan Bran. “Aerosol induced invigoration on clouds and its effect on precipitation on Indian cities.”

PAPERS
PRESENTED IN
SYMPOSIUMS

1. **Subin Jose.**, D.Mahalakshmi and B.Gharai (2011). “Enhancement of pollution level during RTC bus strike, observed using ground based measurement at NRSC, Hyderabad”. Presented in TROPMET 2011,held in Hyderabad during 14-16th December 2011.
2. **Subin Jose** and B.Gharai (2012). “Chacterization of physical and optical properties of aerosols on a hazy day compare to clear and normal day and their influence on solar radiation-a case study over Hyderabad. Presented in IASTA 2012, held in Mumbai during 12-14 December 2012.
3. **Subin Jose.**, Midhuna T.M., Biswadip.Gharai and P.V.N Rao (2014). “Detection and monitoring of intense dust storm using contemporary satellite data. Presented in IGBP symposium held in Bangalore during February 2014.
4. **Subin Jose.**, Biswadip Ghara ., P. V. N. Rao and C. B. S. Dutt (2014). “Temporal heterogeneities of aerosol optical depth over Hyderabad using Ground and satellite based observations”. Presented in IASTA 2014 held in Varanasi.
5. **Subin Jose.**, Biswadip Ghara and P. V. N. Rao (2016). “Comparative Study on Black Carbon Emission over Urban and Rural locations in Southern India”. Presented in NSSS 2016 held in VSSC, Trivandrum.

AWARDS

- Junior Research Fellowship , ISRO Aug2011-Aug2013
- Doctoral Dissertation Fellowship, ISRO Aug2013-Aug2016
- National Post Doctoral Fellowship, DST-SERB Oct2017

TEACHING
EXPERIENCE

- Guest Lecturer June2010-Dec2010
Dept of Physics
Govt. Brennen college, Thalassery
Kannur University
- Guest Lecturer June2017-Sep2017
Dept of Physics
Baselious College, Kottayam
MG University

PERSONAL
DETAILS

DOB: 22-01-1987; Nationality: Indian; Religion: Christian, Roman Catholic

REFERENCES

- Biswadip Gharai
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National Remote Sensing Centre, E-mail: biswadip_g@nrsc.gov.in
ISRO, Hyderabad
- Prof K Niranjan
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