

**PUBLIC NOTICE 019/2019 – SELECTION FOR POST DOCTORAL POSITION  
GRADUATE PROGRAM IN METEOROLOGY – IAG/USP  
PNPD/CAPES PROGRAM**

The Graduate Program in Meteorology of Department of Atmospheric Sciences of Institute of Astronomy, Geophysics and Atmospheric Sciences of University of Sao Paulo disseminates through this advertisement the existence of two postdoctoral fellowships from the Programa Nacional de Pos-Doutorado CAPES (PNPD regulation -Ordinance No. 86/2013 available in [http://www.capes.gov.br/images/stories/download/legislacao/Portaria\\_86\\_2013\\_Regulamento\\_PNPD.pdf](http://www.capes.gov.br/images/stories/download/legislacao/Portaria_86_2013_Regulamento_PNPD.pdf) CAPES). These scholarships have initial duration of 12 months (from July 2019), with possibility of renewal for another year. To extend for one year, the scholarship must submit his report 45 days before the end of the period to be able to participate in new public notice of selection open to other candidates (similar to the procedure adopted in the CNPq).

The evaluation of candidates will be based on objective criteria of productivity, through quantification and qualification of the academic activity and contribution in scientific articles and participation in congresses, duly proven documentation.

The Graduate Program in Meteorology is a program established in the area of Atmospheric Science research and has maximum concept by CAPES. A total of 40 MSc and 44 PhD students are enrolled in the program, and around 15 new vacancies are available for MSc students per year, while the PhD admission follows streaming. There is a possibility of co-advising of MSc and PhD students by the postdoctoral fellows.

Interested candidates in applying for these postdoctoral scholarships should have the Doctor's Diploma and proficiency in English, in addition to the willingness to reside in São Paulo.

For registration, applicants must submit application form for selection of postdoctoral scholarship (available on the program page on the internet), the candidate's declaration stating not be retired, cover letter to justify your interest in one of the areas listed below, copy the updated CV-Lattes, copy of the diploma of doctor or equivalent document attesting the title, and two letters of recommendation to the e-mail [cpgiag@usp.br](mailto:cpgiag@usp.br) up to **05/24/2019**.

The position is open to Brazilians and foreigners not retirees. The selected candidate will receive postdoctoral scholarship from CAPES (valued at R\$4100.00 monthly). The workplace is the Department of Atmospheric Sciences, IAG-USP, located at Rua do Matao, 1226, University City, São Paulo, Capital, Brazil.

It is noteworthy that the Graduate Program in Meteorology is involved in several national and international research projects. In this way, several researchers are looking for Doctors in research areas described below.

List of Researchers and research areas

Adalgiza Fornaro: atmospheric chemistry – analysis of hydrocarbons (C2-C12) including stages of sampling, measurement and environmental assessment.

Amauri Pereira de Oliveira: micrometeorologic characterization of the impact of the occupation on the urban climate of Sao Paulo metropolitan region: radiation energy balance in urban areas.

Augusto Jose Pereira Filho: forecasting and nowcasting of rain and river flow; joint use of atmospheric and hydrological numerical models.

Carlos Augusto Morales Rodriguez: atmospheric electricity; monitoring and alert systems of storms and lightning; lightning monitoring technologies; radar meteorology; remote sensing of precipitation (satellite and radar);

Carlos Frederico Mendonca Raupp: study of non-linear dynamics of geostrophic adjustment: the role of near-geostrophic dynamics in the propagation and statistics of inertial-gravity waves.

Edmilson Dias de Freitas: modeling of air quality in urban areas and neighborhoods (application and improvement of mesoscale models); investigation of the effects of heat islands in cities; application of meteorological models in agriculture (modeling of agricultural productivity and agroclimatic zoning).

Fabio Luiz Teixeira Goncalves: human biometeorology and bio-aerosols. 1-human: applications and impact of environmental factors (weather and air pollution) on thermal comfort of healthy humans and also with health problems. 2-Bioaerosols: impacts on cloud physics and on human health.

Humberto Ribeiro da Rocha: resilience of ecosystems and cities for water and food security, using observations of the Earth system (hydroclimatological and micrometeorological measurements of field experiments, remote sensing data); hydrological modeling and modeling of plant productivity; evaluation of the impact of climate variability and climate change on water and food security.

Jacyra Ramos Soares: observational and numerical investigation of the energy balance and carbon dioxide flow on the surface of the region of Comandante Ferraz Antarctic Station.

Marcia Akemi Yamasoe: analysis of optical properties of aerosol, clouds and surface by remote sensing techniques; numerical study of the radiative effect of aerosols and clouds with the use of radioactive transfer codes.

Maria Assuncao Faus da Silva Dias: impact of aerosols derived from biomass burning in the dynamic evolution of convective systems; microphysical and radiative processes of cloud associated with aerosols derived from biomass burning: observational and numerical modeling aspects.

Pedro Leite da Silva Dias: paleoclimatology: reconstitution and climate control mechanisms in South America (last 2K with high resolution and 150k with low); atmospheric modelling: development and applications of massively parallel high-

resolution spatial and temporal models; methods for determining causality applied to terrestrial climate.

Rachel Ifanger Albrecht: atmospheric electricity; physics of clouds and precipitation; remote sensing of precipitation (satellite and radar); aerosol-clouds-precipitation interactions.

Ricardo de Camargo: ocean-atmosphere coupled modelling in regional scale; sea state modelling.

Rita Yuri Ynoue: numerical modelling of pollutant emissions and air quality.

Ricardo Hallak: modeling of common and severe storms with numerical models of mesoscale in space-temporal high resolution; precipitation in a hydrographic basin of interest in high spatial resolution; study of the physical and dynamic structure of storms; data assimilation; predictability of mesoscale storms.

Rosmeri Porfirio da Rocha: regional climatic modeling and cyclones in South America.

Tércio Ambrizzi: climate change; atmosphere dynamics and numerical modelling; climatology; dynamic climatology.

Interested candidates should send the requested documentation to:

Post-Graduate Service

Institute of Astronomy, Geophysics and Atmospheric Sciences – USP

Rua do Matao, 1226 – Cidade Universitaria – Sao Paulo/SP – Brazil – CEP: 05508-090

For more information:

<http://www.iag.usp.br/pos/meteorologia/portugues/programa-de-pos-doutorado-capes>

Contact: (55) (11) 3091-4765/3091-5046 or via email: [cpgiag@usp.br](mailto:cpgiag@usp.br)