

ICASU GRADUATE FELLOWSHIPS

Overview:

The Illinois Center for Advanced Studies of the Universe (ICASU) at the University of Illinois Urbana-Champaign is pleased to announce its new, annual Graduate Student Fellowship competition. These one-year fellowships support graduate research on topics of direct relevance to ICASU. Fellowships start at the beginning of the Fall semester of the given year, with a duration of one year through the end of the Summer of the following year. Applications must include a brief research proposal, a short CV and a list of publications and a list of talks given.

The deadline to receive applications for 2021 is **3pm Tuesday, August 2nd, 2021.**

This year, we anticipate awarding three fellowships: the first one will be joined with the Center for AstroPhysical Surveys (CAPS) at the University of Illinois' National Center for Supercomputing Applications (NCSA), the second one will be joined with NCSA, and the third one with the University of Illinois Department of Physics. The ICASU-CAPS fellow will be devoted to theoretical work with synergistic overlap between these two centers. The ICASU-NCSA fellow will be devoted to theoretical work with an overlap in scientific computing and with the goal to generate future joint proposal opportunities to continue collaborations between ICASU and NCSA. The ICASU-Physics fellow will be devoted to theoretical work on the physics aspects of the ICASU mission.

The evaluation criteria will be based on scientific merit and relevance to the ICASU mission, putting special emphasis on theory proposals that can strengthen the connections between ICASU and its partners. In particular, applicants interested in the ICASU-CAPS fellowship should clearly state how the research intended will enhance synergies between CAPS and ICASU, while applicants interested in the ICASU-NCSA fellowship should state how the research performed will lead to future collaboration with NCSA.

Details of the Fellowship:

The graduate fellowship includes one year (12 months) of funding at \$30k/yr for a stipend (with tuition remission) starting Fall 2021 and extending through Summer 2022. The ICASU-CAPS fellow will also have computing resources available and travel funds.

Application Materials:

- **Cover page:** The cover page should be limited to 1 page and it should contain the full name, email, year of study, and home department of the applicant. Applications are not limited to graduate students of any one department. In addition, the cover page should specify whether the application is intended for the ICASU-CAPS, ICASU-NCSA or ICASU-Physics program (more than one choice is permitted).
- **Research Statement:** The research statement is limited to two pages and it must be concise and clear. The first page will describe the scientific context, motivation for the proposed work, and its connection to the ICASU mission. Moreover, the first page will describe how the research will develop synergies between ICASU and one of its partners, clearly delineating the connections to CAPS, or NCSA, or Physics. The second page will describe the technical plan and details for the one year fellowship. Figures and references are encouraged, but cannot exceed the page limit. The text layout should be standard 1-inch margins and 10 to 12 point font.
- **CV:** A brief 1-page CV with the applicant's greatest achievements (do not include papers or presentations).
- **List of Publications:** A list of publications (including full author lists and publication titles). Indicate also if any papers are Editor Choices or have been highlighted in any way.
- **List of Presentations:** A list of invited presentations (including the talk title, the paper the talk refers to, and the inviting organization). Exclude any internal talks at UIUC.

The two page research statement should be combined with the CV, the publication list and the list of presentations into a single pdf document with the file name:

research_statement_<lastname>_<firstname>_2021.pdf

All materials are to be emailed to Brandy Shier (bshier@illinois.edu), cc'ing Prof. Nicolás Yunes (nyunes@illinois.edu) by 3pm, August 2nd, 2021. The subject heading of the email will be "ICASUFellowship2021". Applications not conforming with these instructions will be rejected without review. Any questions can be directed to Prof. Nicolás Yunes (nyunes@illinois.edu).

[Note: The 2021 ICASU-CAPS fellowship competition has already ended and a recipient has already been selected. Therefore, the 2021 ICASU Graduate Fellowship competition will only be for the ICASU-NCSA and ICASU-Physics program.]