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## Fwd: Open Graduate Positions at UA Physics and Astronomy + Free Graduate Application Week

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Tue, Oct 4, 2022 at 2:22 PM

**From:** physgrad <[physgrad@ua.edu](mailto:physgrad@ua.edu)>  
**Subject:** Open Graduate Positions at UA Physics and Astronomy + Free Graduate Application  
**Week Date:** October 4, 2022 at 9:49:06 AM EDT  
**To:** physgrad <[physgrad@ua.edu](mailto:physgrad@ua.edu)>

Dear Colleagues,

I hope this email finds you well. I am writing to you on behalf of the Department of Physics & Astronomy at the University of Alabama. As part of a rapidly expanding department, we have an exciting array of graduate positions available which we would like to share with your students. If you would be kind enough to forward the information below to any students interested in graduate opportunities, we would be happy to provide them with further information, feedback, and guidance in their application process.

Thank you in advance for your time and consideration.

Sincerely,

Dr. Preethi Nair  
Associate Professor  
Director for Graduate Recruitment and Admission  
Department of Physics & Astronomy  
The University of Alabama  
E-mail: [physgrad@ua.edu](mailto:physgrad@ua.edu)  
<http://physics.ua.edu/grad/AdmitGrad.html>

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Dear Prospective Students,

The Department of Physics & Astronomy at the University of Alabama has an exciting array of graduate positions available which we would like to share with you. A list of actively recruiting faculty is included below. Please note that this list is meant to be a sample. Research groups not shown here are always interested in new students.

Students are encouraged to visit our website below for information about our department, application procedures, requirements, and more:

<http://physics.ua.edu/grad/AdmitGrad.html>

<https://physics.ua.edu/graduate-program/frequently-asked-questions>

Applicants for Fall 2023 are not required to submit GRE or PGRE scores.

The regular **application deadline is January 15th, 2023**. Those who would like to be considered for all UA Fellowships are encouraged to submit complete applications by December 15th, 2022. Information on financial support is available at: <https://physics.ua.edu/graduate-program/financial-support/>

Please note that UA graduate school will be offering a **free graduate application week** starting on **October 17, 2022**. Please check the UA graduate school website for more information in early October: <https://graduate.ua.edu/>

For students interested in learning more about our graduate program, we will be running a virtual Q&A session on **Wednesday, October 12, 2022** from 10:00 am - 11:00 am US central. Please sign up for the event at: <https://slate.ua.edu/register/physics22>

Students can also email us at [physgrad@ua.edu](mailto:physgrad@ua.edu) for more information about the UA Physics and Astronomy graduate program.

For general information on UA, how to apply to graduate school, and other topics, the UA Graduate School hosts online Q&A sessions regularly. Students can find the schedule and sign up to attend one of the events at: <https://slate.ua.edu/portal/grad-connect>

Thank you in advance for your time and consideration.

Sincerely,

Dr. Preethi Nair  
Associate Professor  
Director for Graduate Recruitment and Admission  
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**Actively Recruiting Faculty (not a complete list)**

**Chao-Chin Yang (Theoretical Astrophysics):** Dr. Yang specializes in planet formation, especially in how kilometer-sized objects such as asteroids and Kuiper Belt objects could form directly from cm/mm-sized dust materials in young circumstellar disks. For this purpose, he uses large-scale computer simulations to study complicated dynamics between gas and dust in these disks. Students who are interested in theory of planet formation and exoplanetary sciences are encouraged to apply. More information can be found at: <https://physics.ua.edu/people/chao-chin-yang/>  
Email: [ccyang@ua.edu](mailto:ccyang@ua.edu)

**Thejesh Bandi (AMO Physics/Precision Timing).** Dr. Bandi is looking for highly motivated candidates from Physics and Engineering backgrounds to pursue masters/doctoral research in the field of Time and Frequency Metrology and Navigation. This includes applications of novel clocks ensemble algorithms, compact high-performance atomic clocks, metrology, precision navigation timing systems and artificial intelligence. More information can be found at: <https://pntflab.ua.edu/>

Email: [tbandi@ua.edu](mailto:tbandi@ua.edu).

**Ryan Wang (Experimental Particle Physics):** There are available Ph.D. positions on the LZ experiment, a next-generation experiment to search for weakly interacting massive particles (WIMPs) which are potential candidates for dark matter. The experiment is currently being commissioned. The groups are funded by the U.S. Department of Energy. More information can be found at: <https://physics.ua.edu/people/juijen-ryan-wang/>  
Email: [juijen.wang@ua.edu](mailto:juijen.wang@ua.edu)

**Emanuele Usai (Experimental High-Energy Physics, Machine Learning):** Dr. Usai is looking for motivated students interested in research in particle physics with the CMS experiment at CERN's Large Hadron Collider. Dr. Usai's team will work on searches for new physics beyond the Standard Model with top quarks in the final state, development of machine learning techniques for data reconstruction and data quality monitoring, and hardware upgrade of the CMS detector. Students interested in machine learning-driven analysis of particle collider data, and detector hardware research and development are strongly encouraged to apply. More information can be found at: <https://physics.ua.edu/people/emanuele-usai/>  
Email: [eusai@ua.edu](mailto:eusai@ua.edu)

**Sergei Gleyzer (Experimental High-Energy Physics, Astrophysics, Machine Learning):** Dr. Gleyzer is looking for highly motivated students interested in research at the highest energy frontier with the CMS experiment at Large Hadron Collider. Dr. Gleyzer's group works on searches for new physics beyond the Standard Model, and development of machine learning techniques for data analysis, simulation, reconstruction and trigger. Students interested in analysis and realtime machine learning applications for the CMS trigger system are encouraged to apply. Dr. Gleyzer's group is additionally recruiting students interested in studying dark matter with machine learning and strong gravitational lensing with the upcoming Vera C. Rubin Observatory. More information can be found at: <http://sergeigleyzer.com/>  
Email: [sgleyzer@ua.edu](mailto:sgleyzer@ua.edu)

**Igor Ostrovskiy (Experimental Nuclear and Particle Physics):** Dr. Ostrovskiy is looking to recruit students to work on 1) Neutrinoless double beta decay with the EXO-200/nEXO experiments and 2) Magnetic monopoles at the Large Hadron Collider and in space. More information can be found at: <http://iostrovskiy.people.ua.edu/>  
E-mail: [iostrovskiy@ua.edu](mailto:iostrovskiy@ua.edu)

**Georg Schwiete (Theoretical Condensed Matter).** Dr. Schwiete is looking for graduate students who are interested in working on problems related to transport and dynamics in quantum many-body systems using field-theoretic methods. This may include, for example, quantum transport in low-dimensional systems, aspects of quantum criticality, unconventional superconductivity, or spintronics research. More information can be found at <https://gschwiete.people.ua.edu>.  
Email: [gschwiete@ua.edu](mailto:gschwiete@ua.edu).

Faculty in other areas including astronomy, astroparticle physics, condensed matter physics, and experimental particle physics are also recruiting students. For a full list of faculty please visit: [https://physics.ua.edu/departments-directory/?\\_sfm\\_affiliation=Faculty](https://physics.ua.edu/departments-directory/?_sfm_affiliation=Faculty)