

Post-Doctoral Associate in the Division Science [Physics] Exoplanet - Dr. Ian Dobbs-Dixon

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Description

Applications are invited for postdoctoral positions in the areas of theoretical extrasolar and solar system planets at New York University Abu Dhabi (NYUAD) with Prof. Ian Dobbs-Dixon. Areas associated with planetary atmospheres, planetary formation, interior evolution, gravitational dynamics, and formation align with ongoing research at NYUAD, but other areas of interest are also encouraged. Positions are for 2 1 years and include competitive salaries and generous benefits including housing and educational subsidies for children. Researchers will be expected to bring experience and expertise in areas such as hydrodynamics, radiative transfer, atmospheric chemistry, planetary structure, n-body calculations, retrieval calculations, interior convection, machine learning, or aeronomy. Astrophysical research at NYUAD spans a wide range of topics, including astroparticle studies, stellar and planetary physics, compact objects, and cosmological simulations, allowing researchers to interact with a wide swath of topics. In parallel to the academic departments at NYUAD, Institute Programs serve to significantly enhance research activities, including the Center for Astrophysics and Space Science (CASS). Overall, more than 30 postdoctoral researchers are involved with astrophysics, providing a rich environment for research.

Research at NYUAD into planetary physics is heavily supported at both the institutional and national levels. Locally, NYUAD has access to significant on-campus computational resources, including a medium-sized Linux cluster consisting of more than 28,000

computing cores and a peak performance of approx. 795 TFLOPS. Nationally, the commitment to Space Science has increased exponentially, culminating most recently in the successful insertion of the AI Amal Spacecraft into the Martian atmosphere. The next years will see a lunar and asteroid missions as well. Overall, the commitment to planetary science at NYUAD and within the UAE promises to spur significant advancements, allow for scientific innovation, and provide future opportunities.

Interested applicants would join the NYUAD Planetary Science Group, working directly with Prof. Ian Dobbs-Dixon. Applicants are required to have a PhD in Astrophysics or related field. Applications require a cover letter, curriculum vitae (including a full publication list), a succinct (3 pages) statement of research interests, transcripts, and three letters of recommendation. In the research statement, please highlight how your research integrates or enhances ongoing research at NYUAD.

Applications received by March 1st, 2024 will receive full consideration, but the position will remain open until filled.

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