Assistant Professor in Quantitative Spatio-Temporal Data-Science

Position Announcement: The Department of *Hydrology and Atmospheric Sciences* at the *University of Arizona* invites applications for a tenure-eligible *Assistant Professor in Quantitative Spatio-Temporal Data-Science* (statistical and machine-learning methods) as applied to *The Hydrologic and Atmospheric Sciences* to begin August 2023. The successful candidate will advance the University of Arizona's research and teaching in the use of such methods to understand and predict the dynamical evolution and interaction of hydro-meteorological (and related) process on the land and in the atmosphere, and their applications to engineering solutions and decision making. The distribution of effort will normally be 40% Research, 40% Teaching, and 20% Service.

Research Focus: Successful candidates will be expected to develop an internationally recognized research program. Research priorities are for a scholar using *Data Science* to analyze complex, large *Earth-Science* data sets, and to develop *Models* that aid in both understanding and prediction. We are particularly interested in applicants who have demonstrated ability to seamlessly bridge across the Domain and Data Sciences. The appointee will also participate in the research activities of the *Graduate Interdisciplinary Graduate Program in Statistics and Data Science* (such as working with students, and/or collaborating with faculty members).

Teaching & Service: Successful candidates will be expected to participate in the teaching and service missions of the department. Ideal candidates will demonstrate strong communication, teaching and leadership skills, as well as an ability to actively contribute to our vibrant department. A strong commitment to *Graduate* and *Undergraduate* teaching and advising is essential, as the supervision of students and academic advising of trainees at all levels is expected. Specifically, the appointee will teach a mix of *Graduate and Undergraduate Courses* in (i) Quantitative Methods and (ii) how such methods apply to the *Hydrologic and Atmospheric Sciences*. The appointee will *also* participate in the instructional activities of the *Graduate Interdisciplinary Graduate Program in Statistics and Data Science* (such as working with students, teaching courses, and/or collaborating with faculty members).

Diversity Statement: At the University of Arizona, we value our inclusive climate because we know that diversity in experiences and perspectives is vital to advancing innovation, critical thinking, solving complex problems, and creating an inclusive academic community. As an Hispanic-serving institution, we translate these values into action by seeking individuals who have experience and expertise working with diverse students, colleagues, and constituencies. Because we seek a workforce with a wide range of perspectives and experiences, we provide equal employment opportunities to applicants and employees without regard to race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity, or genetic information. As an Employer of National Service, we also welcome alumni of AmeriCorps, Peace Corps, and other national service programs and others who will help us advance our Inclusive Excellence initiative aimed at creating a university that values student, staff and faculty engagement in addressing issues of diversity and inclusiveness.

Application Process: Please apply and learn about the position at the link below:

https://arizona.csod.com/ux/ats/careersite/4/home?c=arizona&sq=req12308

Applications should include:

(1) Cover letter
(2) Curriculum vitae
(3) Statement of research interests - specifically discuss how your research has (so far) and will (in the future) advance the development and/or use of Quantitative Spatio-Temporal Data-Science (statistical and machine-learning methods) to improve both understanding and prediction in the Hydrologic and Atmospheric Sciences
(4) Statement of teaching interests - specifically discuss how your Graduate and Undergraduate teaching will improve student understanding of (i) Quantitative Spatio-Temporal Data-Science (statistical and machine-learning methods) in general, and (ii) its applicability to the Hydrologic and Atmospheric Sciences
(5) A statement documenting your plan for promoting diversity, equity, and inclusion

(6) Provide the names and contact of three or more references. Please ask your referees to directly submit letters to the search committee by email. The letters should be emailed as pdf files to *Hoshin Gupta (hoshin@email.arizona.edu)*

(7) Three noteworthy examples of your publications addressing the Research and/or Teaching elements mentioned above, each accompanied by a short (less than one page) executive summary of the main contributions and why they should be considered important.

Best Regards

Hoshin Gupta, Regents Professor
Search Committee Chair
Hydrology & Atmospheric Sciences
The University of Arizona