

Open Ph.D. Research Position in Network Science

Hiring Organization
Princeton University

Job Location
Princeton, New Jersey

Starting Date
Fall 2024

Application Deadline
January 3, 11:59 pm EST

► **Apply here**

The **Complex Infrastructure Systems Group** at Princeton University invites applications for a Ph.D. Researcher position in the area of Network Science. We seek a dedicated and passionate individual ready to contribute to groundbreaking research at the intersection of infrastructure systems, network science, and machine learning.

Position Overview: As a Ph.D. Researcher within our group, you will immerse yourself in the fundamental understanding of networked systems, specifically focusing on topics like spatial-temporal networks, multilayer/multiplex networks, stochastic graph models, network dynamics, and higher-order networks. Furthermore, you will contribute to the foundations of Machine Learning, including but not limited to Graph ML, deep and recurrent neural networks, generative models, reinforcement learning, and online machine learning. Beyond this, your research will expand to understand the applications and implications of both network science and machine learning in real-world contexts, including but not limited to transportation, communication, energy distribution, and environmental and societal systems.

Qualifications: Applicants interested in joining our team should possess a Master's degree in a relevant field such as Physics, Mathematics, Computer Science, Engineering, or closely related disciplines. Candidates should have a solid foundation and demonstrable expertise in network science, complex systems, or associated disciplines. Proficiency in programming languages, including but not limited to Python, C++, and Java, is a prerequisite, as these are essential tools for conducting research. Moreover, applicants should have excellent communication skills in English, both written and oral, to effectively convey research findings and insights to a diverse audience. Outstanding communication skills in English are crucial. Candidates must be able to convey complex technical and scientific information clearly and coherently, both in writing and orally, to a diverse audience. Candidates should demonstrate their ability to work efficiently and productively in both collaborative environments and independent settings, showcasing a balance of teamwork and self-motivation. Minimum application requirements set forth by Princeton University can be found [here](#).

Application Instruction: Please apply for this Ph.D. position officially through the Princeton University application portal, and indicate your interest in the Civil and Environmental Engineering program and the intention of working with Prof. Hackl. Submission deadline is on **January 3, 11:59 pm EST**.

For further information about the position, please contact Prof. Dr. Jürgen Hackl via email at hackl@princeton.edu, with the subject line "Ph.D. Researcher - Network Science Application: [Your Name]"

We look forward to receiving your application and exploring the possibility of having you join our vibrant and innovative research team at the Complex Infrastructure Systems Group at Princeton University.

Princeton University is an equal opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law.

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