

Postdoctoral Fellow in Artificial Intelligence and Machine
Learning
Southern Methodist University

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Posted Jun. 16, 2025, set to expire Oct. 16, 2025

Job Title	Postdoctoral Fellow in Artificial Intelligence and Machine Learning
Department	O'Donnell Data Science and Research Computing Institute https://www.smu.edu/provost/odonnell-institute
Institution	Southern Methodist University Dallas, Texas
Date Posted	Jun. 16, 2025
Application Deadline	Jul. 16, 2025
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Electrical and/or Electronics Computer Science
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Job Description	

Position Description

The rapid evolution of Machine Learning (ML) and Artificial Intelligence (AI) is transforming our understanding of distributed computing and data management systems. The O'Donnell Data Science and Research Computing Institute (ODSRCI) at Southern Methodist University (SMU) invites applications for a Postdoctoral Fellow to conduct innovative research at the intersection of Artificial Intelligence (AI), Machine Learning (ML), and network benchmarking. The Fellow will develop and evaluate ML techniques for estimating and optimizing network-level parameters in complex, real-world

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conditions. The role includes close collaboration with the AT&T Center for Virtualization at SMU, with a focus on advancing scalable distributed computing, context-aware networking, and secure systems.

Responsibilities

- Conduct original research applying AI/ML to wide-area and distributed network environments.
- Design and analyze algorithms for network performance estimation and optimization.
- Collaborate across disciplines and institutions to assist in developing external grant proposals.
- Mentor students and contribute to the missions of the O'Donnell Institute and the AT&T Center for Virtualization.
- Publish findings in leading conferences and journals.

Institutional Context

SMU is a nationally ranked, private, non-sectarian R1 research institution located in one of the nation's fastest growing metropolitan areas. Postdoctoral Fellows are part of an inclusive and intellectually vibrant community of internationally recognized scholars across the humanities, social sciences, mathematical sciences, engineering, and business. We offer the rare confluence of a comprehensive global research institution and a close-knit intellectual enterprise in the liberal arts tradition. SMU's Second Century Campaign was the largest fundraising initiative in SMU's history, raising \$1.15 billion by the end of 2015 and the next \$1.5 billion campaign, SMU *Ignited*, has just successfully concluded. Dallas/Fort Worth Metroplex is a culturally rich arts and global business center and is home to many universities, arts organizations and Fortune 500 corporations. Explore the O'Donnell Data Science and Research Computing Institute at <https://www.smu.edu/provost/odonnell-institute>, the AT&T Center of Virtualization at <https://www.smu.edu/provost/virtualization>, and SMU at <http://www.smu.edu>

Qualifications

Required

- Ph.D. in Computer Science, Electrical Engineering, or a related field.
- Demonstrated expertise in AI/ML, with both theoretical and practical proficiency.
- Experience with parallel programming and GPU-based computation.
- Strong written and verbal communication skills in English.

Preferred

- Familiarity with high-performance computing environments.
- Experience with network benchmarking tools and platforms.

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Application Instructions

Applications must be submitted electronically via Interfolio (<https://apply.interfolio.com/169109>) and should include a current curriculum *vitae* and at least three recent letters of recommendation. To ensure full consideration for the position, the application packet must be received by July 16, 2025, but the committee will continue to accept applications until the position is filled. Expected start date is August 18, 2025. All applications will be acknowledged. SMU is an equal opportunity employer. We particularly welcome applications from minority and women scholars. Hiring is contingent upon the satisfactory completion of a background check.

EEO/AA Policy

SMU is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, sex, age, disability, genetic information, veteran status, sexual orientation, or gender identity and expression. The Assistant Vice President for Access and Equity/Title IX Coordinator is designated to handle inquiries regarding nondiscrimination policies and may be reached at the Perkins Administration Building, Room 204, 6425 Boaz Lane, Dallas, TX 75205, 214-768-3601, accessequity@smu.edu.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact