



The University of Chicago
Booth School of Business
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PRINCIPAL RESEARCHER

The Booth School of Business at the University of Chicago (Chicago, Illinois) invites applications for postdoctoral Principal Researcher (PR) positions. The PR will use the modern techniques of Artificial Intelligence, Machine Learning and Operations Research to tackle research problems in one of the following areas under the supervision of [Prof. Baris Ata](#) (and his practitioner collaborators):

- (i) Healthcare Analytics
- (ii) Social Sector Innovation
- (iii) Theoretical and Computational Analysis of Stochastic Networks and their Applications

This position is structured to prepare the PR to transition to a faculty position at a major research institution. The PR will conduct research, develop code supporting new methodology, and perform benchmarking comparisons in synthetic and real-data exercises, including PHI and PII data. The PR will also create and edit written materials like research documentation for potential publications, and talks and posters for research conferences. The PR is expected to be independently motivated to execute high-quality research in a collaborative environment.

A successful candidate should have a PhD in Computer Science, Machine Learning, Statistics, Operations Research, Engineering, or a related field. They will ideally have familiarity with high-dimensional inference, deep learning, federated learning, or reinforcement learning, and related AI/ML and statistics literatures. They should have experience developing optimization procedures, and a command of high-level computer programming languages and compiled languages, supporting customizable data structures. Experience in R, Python and PyTorch is preferred. Comfort in Unix (e.g., Linux or OSX Terminal) and LaTeX is also preferred.

This position will require the ability to work independently and in teams, and to communicate and organize well. The ability to communicate technical material effectively to a broad audience as well as the ability to set goals, track progress, and prioritize as necessary to meet the deadlines are highly desired. The PR will be expected to manage relationships with external partners such as nonprofits and medical researchers.

This position is expected to last at least one year and often lasts two years, with competitive salary and benefits. Review of applications is happening now, on a rolling basis. The first review will be



on June 14, 2021, though applications submitted after this may be considered. In order to receive full consideration, please immediately submit your application materials electronically:

Application Materials:

1. Curriculum vitae
2. Ph.D. thesis, thesis papers, or writing sample if available
3. Cover letter, including a brief description of research interests, how you heard about this position, when you can start, and how this position will help advance your career goals.
4. Graduate transcripts
5. Two recommendation letters: have recommenders email stephen.lamb@chicagobooth.edu directly

Apply here: https://uchicago.wd5.myworkdayjobs.com/External/job/Hyde-Park-Campus/Principal-Researcher_JR10890

Chicago Booth is dedicated to creating an environment where people of different backgrounds, broadly defined, feel valued and where their ideas and contributions can flourish. Chicago Booth welcomes applications from women, persons with disabilities, veterans, and under-represented groups. If you need an accommodation to apply to a Chicago Booth Research Staff Program, or if there are other factors impacting your ability to apply to an open position, please email ResearchProfessional@lists.chicagobooth.edu.

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