

## Two Fully-Funded Ph.D. Position in Human-Centric AI at the University of Louisville

**Position:** Ph.D. Student (Fully funded)

**Start Date:** Fall 2024

We are excited to offer up to two fully-funded Ph.D. position in the Department of Industrial Engineering at the University of Louisville, focusing on Human-Centric AI at the Center for Human Systems Engineering (CHSE). This opportunity is ideal for candidates with a keen interest or background in human factors, machine learning and data science, specifically applied to human-in-the-loop systems. The goal is to enhance system efficiency and safety through innovative research.

The selected Ph.D. student will work under the guidance of Dr. Yunmei Liu, whose research specializes in modeling human-automation interaction and human performance, predicting human cognitive load using machine learning techniques, and addressing human factors in surface transportation.

### Qualifications:

1. A Bachelor's or Master's (preferred) degree in Industrial Engineering, Systems Engineering, Biomedical Engineering, Civil Engineering, Computer Science (with a focus on human-computer interaction or machine learning), Mechanical Engineering, Psychology, or related fields.
2. Experience or interest in human subjects experimentation, statistical analysis, and machine learning.
3. Programming skills and research experience are advantageous.
4. Proficiency in English writing and communication.

If you are interested in this exciting opportunity, please feel free to reach out to me at [yunmei.liu@louisville.edu](mailto:yunmei.liu@louisville.edu) for further information or any inquiries you may have about the position. When you email, please make sure to attach your CV and transcripts. This will help me better understand your academic and professional journey as we discuss the potential for your involvement in our program.

**About the Department:** The Department of Industrial Engineering (IE) is within the Speed School of Engineering located on the Belknap campus. The department has been a degree granting department since the late 1970s. The department has 13 faculty with the following research thrusts: operations research and decision analytics, human factors and ergonomics, advanced manufacturing, and engineering education. Faculty research has been supported by a variety of federal grants and industry contracts (e.g., NSF, DoD, ONR, NIST, NASA, FHWA, Toyota, GE Appliances/Haier).

**About UofL and Louisville:** The University of Louisville is a state-supported research university located in Kentucky's largest metropolitan area. The University has three campuses: Belknap Campus (which houses eight of the university's 12 colleges and schools), the Health Sciences Center (which houses the university's health-related programs and the University of Louisville Hospital), and Shelby Campus. The University of Louisville pursues excellence and inclusiveness in its work to educate and serve its community; see more [here](#).

Louisville is a progressive community of nearly 1 million people with a robust economy, a vibrant arts scene, a nationally ranked public-school system, and a rich history infused with southern hospitality. Situated on the banks of the Ohio River, Kentucky's largest city (America's 29th largest city) boasts a cost of living that is substantially lower than the national average, with a broad range of affordable housing options from high-rise apartments and historic Victorian homes to suburban communities and rural farms. The region offers a good balance between the diverse metropolitan life, along with the safety and convenience of smaller-size city. Fittingly, it has earned a number of accolades. Louisville is also home of the famous Kentucky Derby.