

Ph.D. Opportunity in Computer Science (CS) at the University of Illinois Urbana-Champaign (UIUC)

Openings:

The **Social Sensing & Intelligence (SSI) Lab** at the School of Information Sciences (iSchool) (<https://ischool.illinois.edu>) and the Siebel School of Computing and Data Science (CS, affiliated) (<https://siebelschool.illinois.edu/>) at the University of Illinois has multiple openings for Ph.D. students in CS to work under the guidance of **Dr. Dong Wang** (<https://www.wangdong.org>) from **Fall 2025** (for Ph.D. applicants in Computer Science).

Prospective students with an M.S. or B.S. degree (or expected by the time of admission) in Computer Science, Data Science, or related fields are encouraged to apply. Successful candidates will have the opportunity to work on exciting research projects in emerging areas of Social Sensing & Intelligence. **Example topics** include:

- Human-centered AI and AI for Social Good.
- Trustworthy AI, XAI, and Generative AI.
- Multimodal Large Language Model (MLLM), Misinformation Detection and Explanation, Recommender Systems.
- Crowdsourcing and Crowdsensing, Human-AI Collective Intelligence.
- Federated Learning, Edge Computing, Internet of Things (IoT).
- Privacy, Robustness, and FATE (Fairness, Accountability, Transparency, Ethics).

Preferred candidates should have a strong background in AI/data analytics/machine learning/social computing/system and/or networking/statistics/estimation theory and/or solid system implementation and development skills in computer science. Preferred candidates are also expected to be self-motivated and have good communication skills. Previous research experience and/or publications in relevant fields will be a plus.

The Social Sensing & Intelligence Lab has state-of-the-art computing facilities to support research. Our works are published in top AI/machine learning and systems venues such as AAAI, IJCAI, Web Conference (WWW), ACL, NAACL, SIGIR, EMNLP, INFOCOM, RecSys, CIKM, CSCW, HCOMP, ICWSM, WSDM, CI, ICDCS, IWQoS, IPSN, IEEE TCSS, TBD, TETC, TIST, IoT

Journal, Elsevier KBS, etc. The lab also has a very collaborative working environment and provides individualized mentorships and tailored career plans (including both academia and industry-oriented career paths, and industry/national lab internship opportunities) for students in the lab. Examples of recently graduated Ph.D. students from the lab can be found at: <https://www.wangdong.org/sslaboratory/team.html>

If you are interested, please send your CV (including GPA, GRE, and TOEFL scores as applicable), transcripts, publications, and other relevant information to **Dr. Wang** at dwang24@illinois.edu with the title of "Prospective Ph.D. Student (CS) for 2025". **In your email, please clearly explain your research interest/expertise in computer science and justify how it aligns with the main topics and directions in SSI Lab.** It will also be helpful to mention your career goal and working style/philosophy.

The **application deadline for Ph.D. in Computer Science** is **December 15, 2024**. The application can be found at <https://siebelschool.illinois.edu/admissions/graduate/applications-process-requirements>

Ph.D. Opportunity

Fall 2025

Social Sensing & Intelligence Lab
**Siebel School of Computing and Data
Science, UIUC**

Research Areas:

- ★ Human-centered AI, AI for Social Good
- ★ Trustworthy AI, XAI, Generative AI
- ★ Multimodal Large Language Model, Misinformation Detection and Explanation, Recommender Systems
- ★ Crowdsourcing and Crowdsensing
- ★ Human-AI Collective Intelligence
- ★ Federated Learning, Edge Computing, IoT
- ★ Privacy, Robustness, and FATE (fairness, accountability, transparency, ethics)

Requirements:

- ★ M.S./ B.S. degree in Computer Science, Data Science, or related fields.
- ★ Preferred candidates should have a strong background in one or more of the following areas:
 - ☆ AI/Machine Learning
 - ☆ Human-centered/Social Computing/HCI
 - ☆ Data Analytics/Statistics/Estimation Theory
 - ☆ Systems and Networking
 - ☆ Solid system implementation and development skills

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Prospective students can send their CV and transcript to **Dr. Dong Wang** at dwang24@illinois.edu

Find out more information at <https://www.wangdong.org> or

