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Yoshee Jain

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RESEARCH OBJECTIVE

In my research, I design human-centered systems that can integrate computing as a tool in real-world applications. I aim to create educational technology tools that enable all students to engage with computing in ways relevant to their learning objectives and meaningful for their future goals using methods from human-computer interaction and machine learning.

EDUCATION

University of Illinois Urbana-Champaign Champaign-Urbana, IL

- Bachelor of Science in Computer Science, Minor in Statistics **May 2026**
- **Thesis**: Towards Identifying Domain-Specific Programming Plans at Scale: Needs, Challenges, and Solutions **GPA: 4.0/4.0**
- **Relevant Courses:** Computational Social Science, Statistics and Probability, Statistical Programming (R), Database Systems, Text Mining, User Interface Design, Advanced Data Analysis, Algorithms and Models of Computation, Applied Machine Learning
  Present: Methodological Pluralism (Insight into HCI Methodologies), Computer Science Education Research, Ethics in Computing

HONORS AND AWARDS

- Chancellor's Scholar
- Edmund J. James Scholar
- Dean's List (FA24, SP24, FA23, SP23, FA22)
- Summer Research Award (including a stipend of $2000 from the Campus Honors Program in 2024)
- Summer Travel Award (including a stipend of $1000 from the Campus Honors Program in 2025)
- Harold and Ruth Hayward/Tau Beta Pi Award Fund (2025-2026)
- Jeffrey P. Blahut Memorial Scholarship (2024-2025)
- Illinois Engineering Achievement Scholarship (2024-2025, 2023-2024)
- Illinois Engineering Outstanding Scholarship (2024-2025, 2023-2024)
- Distinguished Undergraduate Researcher Certificate
- Conference Travel Grants from the Office of Undergraduate Research ($400) and the Campus Honors Program ($400) (SP25)
- Distinguished Active Member, Tau Beta Pi (The Engineering Honor Society)

PUBLICATIONS

Under Review

* Indicates Equal Contribution.

P.3 Examining the Efficacy of Hashtag-Based Bans on Instagram.
E. Mok, **Y. Jain***, S. Gottiparthi*, E. Chandrasekharan.*
Submitted May 2025

J.3 Linguistic Comparison of AI- and Human-Written Responses to Online Mental Health Queries.
*K. Saha, **Y. Jain**, M. De Choudhury.*
Submitted April 2025. arXiv.

C.3 Uncovering the Internet's Hidden Values: An Empirical Study of Desirable Behavior Using Highly-Upvoted Content on Reddit.
*A. Goyal, C. Lambert, **Y. Jain**, E. Chandrasekharan.*
Submitted Jan 2025. arXiv.

Heavily Peer-Reviewed Conference Proceedings

C.2 PLAID: Supporting Computing Instructors to Identify Domain-Specific Programming Plans at Scale.
Y. Jain, M. Demirtas*, K. Cunningham.*
2025 ACM CHI Conference on Human Factors in Computing Systems (CHI 2025). Paper.

C.1 Exploring the Potential of Large Language Models for Estimating the Reading Comprehension Question Difficulty.
***Y. Jain**, John Hollander, Amber He, Sunny Tang, Liang Zhang, John Sabatini.*
2025 International Conference on Human-Computer Interaction (HCII 2025). Paper.

Journal Articles

J.2 Online Communities as a Support System for Alzheimer's and Dementia Care: Large-scale Exploratory Study.
*S. Kaliappan, C. Liu, **Y. Jain**, R. Karkar, K. Saha.*
JMIR Aging 2025. Paper.

J.1 AI vs Humans for Online Support: Comparing the Language of Responses from LLMs and Online Communities of Alzheimer's Disease.
*K. Saha, **Y. Jain**, C. Liu, S. Kaliappan, R. Karkar.*
ACM Transactions on Computing for Healthcare 2025. Paper.

Posters

P.2 Investigating How Gilds Were Employed On Reddit.
C. Lambert, ***Y. Jain****, K. Saha, E. Chandrasekharan.*
2024 ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2024). Abstract.

P.1 Towards Methods for Identifying High-Quality Domain-Specific Programming Patterns.
Y. Jain*, K. Cunningham.*
2023 ACM Conference on International Computing Education Research V.2 (ICER 2023). Abstract. Poster.

Symposiums & Lightly-Peer Reviewed Conferences

S.2 Exploring the Use of LLMs to Generate Contextualized Worked Examples From Programming Patterns.
Y. Jain*, K. Cunningham.*
TAPIA Conference 2025. Poster.

S.1 PLAID: Supporting Computing Instructors to Identify Domain-Specific Programming Plans at Scale.
Y. Jain*, M. Demirtas, K. Cunningham.*
Symposium on AI, Education, and the Learning Sciences. Poster.

Theses

T.1 Towards Identifying Domain-Specific Programming Plans at Scale: Needs, Challenges, and Solutions
Y. Jain
Bachelor's Thesis. Link

RESEARCH EXPERIENCE

Undergraduate Summer Research Intern June 2025 – Present
KIXLAB, School of Computing, Korea Advanced Institute of Science and Technology (KAIST) *Daejeon, South Korea*
Advisor(s): Dr. Juho Kim, Dr. Seungju Kim, Saelyne Yang

Undergraduate Summer Research Assistant May 2025 – Present
PEACH Lab, Institute for Intelligent Interactive Systems, Federal Institute of Technology Zurich (ETH Zürich) *Remote*
Advisor(s): Dr. April Yi Wang, Dr. Katie Cunningham

Undergraduate Research Assistant Aug 2023 – Present
SCUBA Lab, Siebel School of Computing and Data Science, University of Illinois Urbana-Champaign (UIUC) *Urbana, IL*
Advisor(s): Dr. Eshwar Chandrasekharan, Charlotte Lambert

CS Student Ambassador/Research Scholar Jan 2023 – Present
TRAILS Lab, Siebel School of Computing and Data Science, University of Illinois Urbana-Champaign (UIUC) *Urbana, IL*
Advisor(s): Dr. Katie Cunningham

Undergraduate Research Assistant Aug 2023 – May 2025
OnCARE Lab, Siebel School of Computing and Data Science, University of Illinois Urbana-Champaign (UIUC) *Urbana, IL*
Advisor(s): Dr. Koustuv Saha

Undergraduate Research Intern May 2024 – Aug 2024
GEM Lab, Human-Computer Interaction Institute, Carnegie Mellon University (CMU) *Remote*
Advisor(s): Dr. Jionghao Lin, Dr. John Sabatini, Dr. John Hollander, Liang Zhang

CS Summer Research Program Intern May 2024 – Aug 2024
TRAILS Lab, Siebel School of Computing and Data Science, University of Illinois Urbana-Champaign (UIUC) *Urbana, IL*
Advisor(s): Dr. Katie Cunningham

Undergraduate Summer Research Intern May 2023 – Aug 2023
TRAILS Lab, Siebel School of Computing and Data Science, University of Illinois Urbana-Champaign (UIUC) *Remote*
Advisor(s): Dr. Katie Cunningham

SKILLS

Languages: Python, C/C++, Java, LaTeX, R, HTML/CSS, JavaScript, Flask, Django
Frameworks: Cursor, Visual Studio Code, Git/GitHub, Android Studio, PyCharm, REST APIs, Multimodal LLMs
Research Methods: System Design, Mixed Methods Analysis, Semi-structured Interviews, Quasi-Experimental Studies, and Causal Inference Analysis

TEACHING EXPERIENCE

CS 101: Intro Computing: Engrg & Sci. Urbana, IL
Course Assistant *Aug. 2025 - Present*

CS 102: Little Bits to Big Ideas. Urbana, IL
Course Assistant *Jan. 2025 - May. 2025*

CS 124 Honors: Introduction to Computer Science I. Urbana, IL
Project Manager *Jan. 2023 - May 2023*

Girls Who Code Urbana, IL
Undergraduate Mentor *Aug. 2022 - May 2023*

SERVICE

Siebel School of Computing and Data Science. University of Illinois Urbana-Champaign Urbana, IL
Student Ambassadors/Research Scholars *Jan. 2023 - May. 2025*

Reflections Projections 2024. Association of Computing Machinery. University of Illinois Urbana-Champaign Urbana, IL
Content Team Co-Director *Feb. 2023 - Oct 2024*

Tau Beta Pi. University of Illinois Urbana-Champaign Urbana, IL
Distinguished Active Member *Feb. 2024 - Present*

LANGUAGES

English (proficient), Hindi (proficient), German (intermediate reading and writing)