Dr. Jasmeet Kaur

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Research Interests

Human-Computer Interaction (HCI), Usable Privacy, Responsible AI, Health Informatics, Public Health, Marginalized Populations, Global Development, ICT4D.

Education

08/2018 – 07/2025	**Ph.D.,** *Indraprastha Institute of Information Technology (IIIT)*	Delhi, India

- Title: Supporting Family Planning Needs of Pregnant and Postpartum Women through Smartphone-based Solutions in Rural Northern India
- Advisor: Dr. Pushpendra Singh
- External Examiners: Dr. Ding Wang, Dr. Nicola Dell, and Dr. Nova Ahmed
- Received the Institute's Doctoral Dissertation Award

07/2017 – 12/2019	**M.Tech.,** *Indraprastha Institute of Information Technology (IIIT)*	Delhi, India

- CGPA: 7.7/10.0

08/2013 – 06/2017	**B.Tech.,** *Graphic Era University*	Dehradun, India

- CGPA: 9.6/10.0

Research Experience

01/022026 – Present	**Postdoctoral Researcher,**	Saarbrücken, Germany

CISPA Helmholtz Center for Information Security
I examine, design, and build systems to support the privacy needs of individuals in their interactions with Large-Language Models, especially marginalised populations.

08/2025 – 01/2026	**Research Associate,** *IIIT*	Delhi, India

- Conduct the deployment of an mHealth intervention across multiple sites in India.
- Analyze user engagement with the mHealth intervention and identify the evolution of support-seeking behaviors.
- Analyzed the influence of social settings, household structures, and family dynamics on participation across diverse field sites.
- Identify strategies that sustain meaningful user engagement.
- Study trust-building mechanisms among users in mHealth interventions.

08/2018 – 07/2025	**Graduate Student Research Assistant,** *Mélange Lab, IIIT*	Delhi, India

- Led interviews, surveys, focus group discussions, and participatory observations with diverse populations (low-resource pregnant and postpartum women, urban women, NGO staff members, doctors).
- Designed, deployed, and evaluated digital health interventions (chatbots, peer support groups) in low-resource settings.

| 05/2022 – 09/2022 | **Research Intern,** *Google Research, India* | Bangalore, India |

- Project: Development of a personalized exercise assistant using Reinforcement Learning (RL)
- Responsibilities:
  - Generating a training dataset for an RL system using HCI methodologies
  - Validation of the RL system using HCI methodologies

Skills

Research

- Human-Centered Design for Marginalized Populations
- User Experience Research
- Participatory and Qualitative Research Methods
- Evaluation of AI-driven Interventions through a socio-cultural lens and a value-sensitive lens
- Multidisciplinary Research Collaboration

Programming Languages

C, C++, Python, Java

Tools

Wireshark, Eclipse, Android Studio, Freeswitch, Latex

Databases

MySQL, MongoDB, Firebase

Publications

[12] **Jasmeet Kaur**, and Pushpendra Singh, 2026, Integrating Value-sensitive Design in LLMs for Sensitive Healthcare Topics (In Preparation for FAccT).

[11] Sara Moin, **Jasmeet Kaur**, and Pushpendra Singh, 2026, Blending LLM and Peer Support Pathways for Women's Sexual Health in Low-Resource Settings (Under submission in CHI).

[10] **Jasmeet Kaur**, and Pushpendra Singh. 2025. Exploring the Potential of ChatGPT for Supporting Family Planning Needs of Postpartum Women in Resource-constrained Areas of India. Proc. ACM Hum.-Comput. Interact. 8, CSCW(2025).

[9] **Jasmeet Kaur**, and Pushpendra Singh. 2025. Exploring the Potential of Peer Support Group for Family Planning Needs of Women in Resource-constrained Settings in India. Proc. ACM Hum.-Comput. Interact. 8, CSCW(2025).

[8] **Jasmeet Kaur**, Riya Singh, and Pushpendra Singh. 2025. "I did not know what they are": Understanding Support Needs of Women around Family Planning in Rural India. Proc. ACM Hum.-Comput. Interact. 8, CSCW, (2025).

[7] **Jasmeet Kaur,** Preetika Sharma, Vijay Kumar, Mona Duggal, Nadia Griffin Diamond-Smith, Alison El Ayadi, Kathryn Vosburg, and Pushpendra Singh. 2024. Exploring the Role of Chatbots in Tackling COVID-19 Vaccine Hesitancy among Pregnant and Breastfeeding Women in Rural Northern India. Proc. ACM Hum.-Comput. Interact. 8, CSCW1, Article 55 (April 2024), 29 pages.

[6] El Ayadi, Alison M., Pushpendra Singh, Mona Duggal, Vijay Kumar, **Jasmeet Kaur**, Preetika Sharma, Kathryn Bradford Vosburg, and Nadia G. Diamond-Smith. Feasibility and acceptability of Saheli, a WhatsApp Chatbot, on COVID-19 vaccination among pregnant and breastfeeding women in rural North India. BMJ Innovations 9, no. 4 (2023).

[5] Ritwik Mishra, Simranjeet Singh, **Jasmeet Kaur**, Pushpendra Singh, and Rajiv Shah. "Hindi chatbot for supporting maternal and child health related queries in rural India." In Proceedings of the 5th Clinical Natural Language Processing Workshop, pp. 69-77. 2023.

[4] Diamond-Smith, Nadia G., Preetika Sharma, Mona Duggal, Navneet Gill, Jagriti Gupta, Vijay Kumar, **Jasmeet Kaur**, Pushpendra Singh, Katy Bradford Vosburg, and Alison M. El Ayadi. The supply is there. So why can't pregnant and breastfeeding women in rural India get the COVID-19 vaccine?. PLOS global public health 2, no. 12 (2022): e0001321

[3] **Jasmeet Kaur**, Meghna Gupta, and Pushpendra Singh. 2022. Understanding the Role of Technology-mediated Solutions for Women's Safety in Urban India. In Proceedings of the 5th ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS '22). Association for Computing Machinery, New York, NY, USA, 638–642.

[2] **Jasmeet Kaur** and Pushpendra Singh. 2020. Understanding Engagement of Parents In Online Health Communities for Early Childhood. In Proceedings of the 2020 International Conference on Information and Communication Technologies and Development (ICTD '20). Association for Computing Machinery, New York, NY, USA, Article 28, 1–5.

[1] **Jasmeet Kaur**, Asra Sakeen Wani, and Pushpendra Singh. 2019. Engagement of Pregnant Women and Mothers over WhatsApp: Challenges and Opportunities Involved. In Companion Publication of the 2019 Conference on Computer Supported Cooperative Work and Social Computing (CSCW'19 Companion). Association for Computing Machinery, New York, NY, USA, 236–240.

Selected Projects

2025	**Mental Health,** *User-centered Journaling App for Mental Health* Designing a journaling app for mental health with a user-centered approach to designing interfaces for emotional expression and feedback for different modes of journaling.
2025	**Sexual and Reproductive Health,** *Chatbot for Sexual and Reproductive Health in Low-resource Settings in India* Deployed an LLM-based chatbot over WhatsApp to support postpartum women's concerns around sexual and reproductive health.
2023	**Sexual and Reproductive Health,** *Digital Peer Support Group for Family Planning in Low-resource Settings in India* Studied the role of technology-based peer support in addressing family planning needs among rural Indian women. Conducted a three-week WhatsApp-based field study with 30 participants to evaluate how technology scaffolds care. Findings highlight the group's role in providing emotional and informational support, and inform design considerations for peer support tools in family planning.
2022	**Maternal Health,** *Chatbot for COVID-19 Vaccine Hesitancy in Low-resource Settings in India* Investigated COVID-19 vaccine hesitancy among pregnant and breastfeeding women in rural India; developed, deployed, and evaluated a rule-based chatbot over WhatsApp to deliver evidence-based vaccine education. Analyzed engagement of 800+ users over 23 days, demonstrating improved vaccine knowledge and intent in low-connectivity settings.
2018	**Maternal Health,** *Chatbot for Breastfeeding Mothers in Low-resource Settings in India* Designed and developed a Hindi-language chatbot to support breastfeeding mothers by addressing queries related to breastfeeding. The chatbot featured a question-and-answer dialogue style and was accessed through a mobile application interface.

Professional Services

Reviewer for CHI 2026
Reviewer for CSCW 2024 and 2025.
Student Volunteer for CSCW 2021.
Reviewer for ACM COMPASS Shadow Program Committee 2021.
Student Volunteer for the HCD Symposium at IIIT-Delhi, 2020.
Student Volunteer Chair for ICTD X, Ahmedabad, India, 2019.

Teaching Experience

07/2017 – 05/2022	**Teaching Assistant, IIIT**	Delhi, India

- Courses: Advanced Topics in Human-centered Computing, Mobile Computing, Information Retrieval, Natural Language Processing, Foundations of Parallel Programming, Operating Systems, Computer Networks, and Advanced Programming
- Responsibilities:
  - Drafting and evaluating quizzes, assignments, exams, and course projects
  - Conducting tutorials

References

Dr. Pushpendra Singh, *Professor*, IIIT-Delhi, India
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Narayan Hegde, *Software Engineer*, Google Research, Bangalore India
hegde@google.com

Nadia Diamond-Smith, *Associate Professor*, UCSF, USA
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