Alka Khurana
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**Educational Qualification**

**Ph.D (Thesis Writing Stage)**
Pursuing from Department of Computer Science, University of Delhi under the supervision of Prof. Vasudha Bhatnagar
Submitted Ph.D Consortium in Database Systems for Advanced Applications (DASFAA-2022) held from April 11-14, 2022

**UGC -NET and JRF (2012)**

**MCA (2010)**
Department of Computer Science, University of Delhi (83.4%)

**B.Sc(H) Mathematics (2007)**
Hansraj College, University of Delhi (92.7%)

**Class XII (2004)**
Rukmini Devi Public School, Pitampura, Delhi (88.0%)

**Class X (2002)**
Jain Bharati Mrigavati Vidyalaya, Alipur, Delhi (88.8%)


**Work Experience**

**14 Jan 2013 - Present**
Working as Assistant Professor, Department of Computer Science, Hansraj College, University of Delhi

**18 Oct 2010 - 09 Jan 2013**
TGT, Computer Science, Bal Bharati Public School, GRH Marg, New Delhi

**01 June 2010 - 15 Oct 2010**
Software Engineer, Nagarro Softwares Pvt. Ltd.

**Publications**

1. Published and presented Ph.D consortium paper titled "Leveraging Non-negative Matrix Factorization for Document Summarization" in 27th International Conference on Database Systems for Advanced Applications (DASFAA-2022), held virtually from April 11-14, 2022, Hyderabad, India.
2. Published a paper titled "Investigating Entropy for Extractive Document Summarization" in Expert Systems with Applications 187 (2022): 115820 (Impact Factor: 8.665)
3. Presented a paper titled "NMF Ensembles? Not for Text Summarization!" in "First Workshop on Scholarly Document Processing" co-located with "EMNLP 2020" held virtually on November 19, 2020.
4. Published paper titled "Divide and Conquer: From Complexity to Lay Summarization" as co-author in "CL-LaySumm 2020: The 1st Computational Linguistics Lay Summary Challenge Shared Task" co-located with "EMNLP 2020" held virtually on November 19, 2020.
5. Presented the paper titled "Extractive Document Summarization using Non-negative Matrix Factorization" in International Conference on Database and Expert Systems Applications (DEXA) held from August 26- 29, 2019 at Linz, Austria.
6. Presented a paper titled 'Design of Strong Cryptographic Schemes based on Latin Squares' at the Pre-ICM International Convention on Mathematical Sciences, held at Delhi University in 2008.

**Subjects Taught**

| Course | Papers |
| --- | --- |
| B.Sc(H) Computer Science | Theory of Computation |
| | Machine Learning |
| | Programming in Python (SEC) |
| | Computer Graphics |
| | Data Structures |
| | Fundamentals of Programming(C++) |
| | Programming in Java |
| | PHP Programming |
| | Web Design and Development (SEC) |
| B.Sc. Physical Science | Computational Skills |
| | Programming in Java |
| | Database Management Systems |
| | Computer System Architecture |

**FDPs Attended**

1. Participated in One week(online) Faculty Development Programme on "Natural Language Processing and It's Applications'' from 05 March – 11 March 2022 organized by P.G.D.A.V. College (M), University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi.
2. Participated in One week(online) Interdisciplinary Faculty Development Programme on "Data Science and Machine Learning using Python" from 24 September - 30 September 2021 organized by Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi.
3. One week online Faculty Development Program on "Exploratory Data Analysis using Statistical Software R and SPSS" from 07 January – 13 January, 2021, organized by Mata Sundri College for Women, University of Delhi in collaboration with Hansraj College, University of Delhi.
4. Completed 4-Week Faculty Induction Programmer for "Faculty in Universities/Colleges/Institutes of Higher Education" organized by Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration with Bareilly College, U.P and Hindu College, Moradabad, U.P under the aegis of Ministry of Education held from 21 August – 19 September, 2022 with A+ Grade.


**Seminars/Webinars/Workshops Attended**

1. Attended ACM COMPUTE 2021, 14th Annual Conference organized by Department of Computer Science, University of Delhi from Nov 18 - Nov 20 2021.
2. Attended National Webinar on "Machine Learning & it's Applications" organized by Department of Computer Science, Maitreyi College, University of Delhi on 21 August 2021.
3. Attended 5-Day workshop on "Data Analysis using Python" organized by the Department of Computer Science, Maitreyi College, University of Delhi from June 24 - June 28, 2021.
4. Attended 25th Pacific-Asia Conference on "Knowledge Discovery and Data Mining (PAKDD-2021)", held virtually from May 11-14, 2021 in Delhi, India.
5. Attended the Virtual 2020 Conference on "Empirical Methods in Natural Language Processing" held November 16 –20, 2020.
6. Attended the "International Conference on Database and Expert Systems Applications (DEXA)" held from August 26- 29, 2019 at Linz, Austria.
7. Attended Summer School on "AI Assisted Data Analytics" held at IIIT-Delhi from11 July 2019 to 14 July 2019.
8. Participated in Summer training on "Regression and Deep Learning" organized by Department of Computer Science, South Asian University, New Delhi during June 11-12, 2018.
9. Completed short-term course on "Complex Networks" under Continuing Education Programme held from 18 December 2017 to 22 December 2017 at IIT Delhi.

10. Attended "International Workshop on Big Data Analytics (WBDA – 2017)" organized by School of Computer and Systems Sciences, Jawahar Nehru University held from March 17-18, 2017.
11. Completed GIAN course titled "Graph Mining and Analysis" organized by Jamia Millia Islamia from 17 December 2015 to 23 December 2015.
12. Attended "International Conference on Big Data Analytics (BDA) 2014" held at IIT Delhi held from December 20-23, 2014.
13. Attended "International Workshop on Data and Text Analysis" organized by Department of Computer Science, South Asian University, New Delhi in association with U.P. Technical University, Lucknow and J.S.S. Academy of Technical Education, Noida held from 8 December 2014 to 13 December 2014.
14. Attended one day workshop on Network Analytics and Support Vector Machines & Applications held on 10 April 2015.

## Events Organized

1. Convenor of the workshop titled "Data Analysis and Visualization using R" organized in collaboration with Student Learning Center, IQAC, Hansraj College from 05 Oct - 08 Oct 2021.
2. Co-ordinated for workshop "Two Day Lecture Demonstration Workshop on Introduction to Vilasini Natyam" with Purvadhanashree organized by "Shrestha Kala Sangam" in collaboration with Hansraj College, University of Delhi from 28-29 August 2021.
3. Co-ordinated the seminar on "Cyber Security in Cloud Computing and Social Networking" organized by Department of Computer Science held on January 12, 2017.

## Administrative Responsibilities

1. Member of NAAC Criterion 3 committee (since 2016). Actively involved in collection, compilation and uploading of data.
2. Assisted Science Convenor for college-level admissions (AY 2013-14, 2019-20)
3. Deputy Superintendent for examinations held in the year 2019
4. Member of ICT Enabling Committee (College level)
5. Member of the Women's Development Committee (College level)
6. Admissions (Department level, since 2013)
7. Member of Academic Audit Committee (Department level)
8. Member of Student Welfare Committee (Department level)
9. Criterion 3 nominee (Department level)

## Personal Details

DOB: 04 December 1986
Husband's Name: Jatin Khurana
Nationality: Indian
Marital Status: Married