

## Jyoti Agarwal (Dr.), M.Sc., Ph.D.

D/o Shri Anil Kumar Agarwal,  
Ward No. 01, Tanakpur – 262309,  
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### Education Qualification:

<b>2008-2014</b>	<b>Ph.D. (Chemistry)</b> <i>Institution :</i> S.S.J. Campus, Almora, Kumaun University, Nainital, Uttarakhand <i>Department:</i> Organic Chemistry <i>Thesis Title:</i> Studies on flavonoidal composition from <i>Lepidium sativum</i> and <i>Lepidium ruderales</i> <i>Supervisor:</i> Prof. D. L. Verma <i>Awarded:</i> March 01, 2014
<b>2004-2006</b>	<b>M.Sc. (Chemistry) with specialization Organic Chemistry</b> <i>University:</i> Kumaun University, Nainital, Uttarakhand, India <i>College:</i> D.S.B. Campus, Nainital <i>Department:</i> Department of Chemistry <i>Division:</i> 1 <sup>st</sup> (60.83%)
<b>2001-2004</b>	<b>B.Sc. with Zoology, Botany and Chemistry</b> <i>University:</i> Kumaun University, Nainital, Uttarakhand, India <i>College:</i> H. N. B. Government Post Graduate College, Khatima – 262308, Uttarakhand, India <i>Division:</i> 1 <sup>st</sup> (63.55%)
<b>1997-1999</b>	<b>Intermediate (12<sup>th</sup>)</b> <i>Board:</i> U.P. Board, Allahabad <i>Subjects:</i> Hindi, English, Physics, Chemistry, Biology <i>College:</i> Govt. Girls Inter College, Tanakpur <i>Division:</i> 1 <sup>st</sup> (67.60%)
<b>1995-1997</b>	<b>High School (10<sup>th</sup>)</b> <i>Board :</i> U.P. Board, Allahabad <i>Subjects :</i> Hindi, English, Math-2, Science-2, Social Science, Biology <i>College :</i> Govt. Girls Inter College, Tanakpur <i>Division:</i> 1 <sup>st</sup> (63.16%)
<b>2016-2018</b>	<b>B.Ed.</b> <i>University:</i> Kumaun University, Nainital, India <i>College:</i> Poornagiri College of Education khatima, U.S. Nagar, Uttarakhand <i>Division:</i> 1 <sup>st</sup> (74.00%)

### Professional Experience (Teaching / Industrial / Research):

December, 2017 – till date

#### Assistant Professor

- *Institute:* Hemwati Nandan Bahuguna Government Post Graduate College, Khatima – 262308 Uttarakhand, India
- *Department:* Chemistry
- *Nature of work:* Teaching B.Sc. and M.Sc. students and research active in the area of **Natural Products** with their industrial applications.

**Interest:**

- |          |   |
|----------|---|
| Research | <ul style="list-style-type: none"> <li>• Natural Product</li> <li>• Nanostructure Materials</li> <li>• Advanced Mesoporous Materials</li> <li>• Photocatalysis</li> </ul> |
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**Professional Activities: Administrative Responsibilities**

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|----------------------|---|
| Admission Committee  | <ul style="list-style-type: none"> <li>• Assisted in admission of B.Sc and M.Sc (chemistry) for academic session: 2018-2019, 2019-2020, 2020-2021 and 2021-2022 at H.N.B. Govt. P.G. college, Khatima, U.S.Nagar,Uttarakhand.</li> </ul>  |
| Election Committee   | <ul style="list-style-type: none"> <li>• Assisted in college election committee for academic year 2018-2019 and 2019-2020 at H.N.B. Govt. P.G. college, Khatima, U.S.Nagar,Uttarakhand.</li> </ul>  |
| Sport Committee      | <ul style="list-style-type: none"> <li>• Assisted in organization committee for Annual Sport Day on 27-28 February, 2019; 28-29 February, 2020; 27-28 February 2021 and 16-17 April, 2022 at H.N.B. Govt. P.G. college, Khatima, U.S.Nagar,Uttarakhand.</li> </ul>  |
| Internal Examiner    | <ul style="list-style-type: none"> <li>• Assisted in conducting chemistry practical examination of B.Sc and M.Sc as internal examiner (academic session: 2018-2019, 2019-2020, 2020-2021 and 2021-2022) at H.N.B. Govt. P.G. college, Khatima, U.S.Nagar,Uttarakhand.</li> </ul>  |
| Convenor             | <ul style="list-style-type: none"> <li>• To organize National Level e- Quiz contest on “<b>Chemistry in Everyday Life-2020</b>” held on June 14, 2020 at <i>e-platform</i> in H.N.B. Govt. P.G. college, Khatima, U.S.Nagar,Uttarakhand.</li> </ul>   |
| Co-Convenor          | <ul style="list-style-type: none"> <li>• To organize National Level e- Quiz contest on “<b>Corona Virus Disease (COVID-19) Chemistry Awareness</b>” held on June 30, 2020 at <i>e-platform</i> in H.N.B. Govt. P.G. college, Khatima, U.S.Nagar,Uttarakhand.</li> </ul>   |
| Organizing Secretary | <ul style="list-style-type: none"> <li>• To organize a two days national virtual conference on “<b>Recent Advances in Analytical Techniques- 2020 (RAAT-2020)</b>” held on August 16-17, 2020 at <i>e-platform</i> in H.N.B. Govt. P.G. college, Khatima, U.S.Nagar,Uttarakhand.</li> <li>• To organize National Level e- Quiz contest on “<b>Know the Physics around you-2020</b>” held on June 15-28, 2020 at <i>e-platform</i> in H.N.B. Govt. P.G. college, Khatima, U.S.Nagar,Uttarakhand.</li> <li>• To organize a one day National Webinar on “<b>Role of Science for Sustainable Rural Development of Uttarakhand- 2021 (RSS-RD-2021)</b>” held on February 28, 2021 (National Science Day) at <i>e-platform</i> in H.N.B. Govt. P.G. college, Khatima, U.S.Nagar,Uttarakhand.</li> </ul> |
| Organizing Committee | <ul style="list-style-type: none"> <li>• To organize a two days international virtual conference on “<b>Modern Instrumental and Characterization Techniques in Applied Sciences-2020 (MICTAS-2020)</b>” held on July 5-6, 2020 at <i>e-platform</i> in H.N.B. Govt. P.G. college, Khatima, U.S.Nagar, Uttarakhand.</li> </ul>   |

**List of Publications: (Total Published: 03)**

**Publications from Ph.D. (2011) : Published: 03**

1. **Jyoti Agarwal** and D. L. Verma\* “Quercetin glycosides from antioxidative active aqueous ethanolic extract of *Lepidium ruderales* linn” *Academia Arena* (2011) Volume 3(3), pp 25-33.
2. **Jyoti Agarwal** and D. L. Verma\* “Antioxidative active and flavonoid composition from *Lepidium sativum*” *Nature and Science* (2011) Volume 9(7), pp 21-25.
3. **Jyoti Agarwal** and D. L. Verma\* “Antioxidant activity – guided fractionation of aqueous extracts from *Lepidium sativum* and identification of active flavonol glycosides” *Academia Arena* (2011) Volume 3(12), pp 14-17.

**Conference / Workshop Attended:**

- |                   |   |
|-------------------|---|
| <b>Workshop</b>   | 1. National Workshop on “ <i>Computers in Chemistry</i> ” held at S.S.J. Campus, Almora, Uttarakhand, November 22-24, <b>2007</b> .   |
| <b>Conference</b> | <ol style="list-style-type: none"> <li>1. National conference on “<i>Advanced Technologies and Environmental Safety (ATES-2019)</i>” held at IFTM University (NAAC Accredited) Lodhipur Rajput Moradabad, U.P., India, March 9-10, <b>2019</b> (Page No. 51)</li> <li>2. National Seminar on “<i>Technology for Environmental Sustainability, Socio-Economic Responsibility and Associated Entrepreneurial Opportunities in 21st Century</i>” held at Seminar Hall, Sri Aurobindo College, Department of Chemistry, Malviya Nagar, New Delhi-110017, March 8-9, <b>2019</b> (Poster–PP02, Page No.85, Poster–PP05, Page No.91).</li> <li>3. National Seminar on “<i>Emerging Trends and Future Challenges in Science (ETFCS-2019)</i>” held at Department of Chemistry, Shri Guru Ram (P.G.) College, Dehradun (Uttarakhand), February 27-28, <b>2019</b> (Page No. 61, 68).</li> <li>4. National Conference on “<i>Chemistry for Human Health and Environment (CHHE)</i>” held at Conference Center, University of Delhi, Delhi-110007, December 15-16, <b>2018</b> (Poster–PP 22, Page No.35).</li> <li>5. National conference on “<i>Microbial Inoculants for Agriculture and Environmental Sustainability (MAES-2018)</i>” held at the Department of Botany and Microbiology, Gurukul Kangri Vishwavidyalaya, Haridwar, Uttarakhand, India, September 28-30, <b>2018</b> (Page No. 32).</li> <li>6. 2<sup>nd</sup> Uttarakhand state science congress held at DSB campus, nainital, November 15-17, <b>2007</b> (Poster Presentation).</li> <li>7. National conference on “<i>Modern Instrumental and Characterization Techniques in Biotechnology &amp; Applied Sciences-2021 (MICTBAS-2021)</i>” held at MIET Kumaon Haldwani Uttarakhand, September 3-4, <b>2021</b>.</li> </ol> |
| <b>Webinar</b>    | <ol style="list-style-type: none"> <li>1. National webinar on “<i>Challenges and Opportunities in Covid-19 Scenario</i>” organized by Department of Mathematics, Sri Jai Narain Misra P.G. College (KKC), Lucknow on 05<sup>th</sup> June, <b>2020</b>.</li> <li>2. Webinar on topic “<i>Language Technology and Role of Literature Departments in India</i>” organized by ARSD College, Dhaula Kuan, New Delhi held on 02<sup>nd</sup> June, <b>2020</b>.</li> <li>3. Participated in the online “<i>Chemistry Quiz</i>” competition organized by Department of Chemistry, Ghulam Nabi Azad Arts, Commerce &amp; Science College, Barshitakli in June, <b>2020</b>.</li> <li>4. National webinar on “<i>Preventative healthcare diagnostic platforms based on Micro-Nanotechnologies</i>” organized by Department of Science, Lady Irwin College on 30<sup>th</sup> May, <b>2020</b>.</li> <li>5. Webinar on topic “<i>Care for Earth: Thy Survival</i>” organized by ARSD College, Dhaula Kuan held on 30<sup>th</sup> May, <b>2020</b>.</li> <li>6. National webinar on “<i>Impact of COVID-19 Pandemic Indian Education System</i>” organized by Bajaj College of Management &amp; Technology, Gadarpur, Udham Singh Nagar (Uttarakhand) on 27<sup>th</sup> May, <b>2020</b>.</li> <li>7. International webinar on “<i>Contribution of Language, Literature and Genres in Covid-19 Public</i>”</li> </ol>   |

- Awareness Campaign and Dimensional Changes in Social Science” organized by Government Raza P.G. College, Rampur on 26<sup>th</sup> May, **2020**.
8. National seminar on “Role of Nuclear Magnetic Resonance Spectroscopy in Structure Determination and Beyond” organized by Indira Priyadarshini Government Girls Post Graduate College of Commerce, Haldwani on 24<sup>th</sup> July, **2020**.
  9. International virtual conference on “Role of Technology in the Era of Covid-19 for Education” organized by MIET Kumaon Haldwani, Uttarakhand, held on June 7<sup>th</sup> to 8<sup>th</sup>, **2020**.
  10. International webinar on “Challenges and Opportunities for Business and Economies Worldwide, Post Covid-19” organized by Government Raza P.G. College, Rampur,U.P.India held on 7<sup>th</sup> June, **2020**.
  11. National webinar on “Research Methodology and Catalysis in Chemical Sciences” organized by the Department of Chemistry & Research, Nesamony Memorial Christian College, Marthandam on 16<sup>th</sup> June, **2020**.
  12. National webinar on “Paradigm Shifting In Education: Class Room to Virtual Mode” conducted by Department of Teacher Education, Bareilly College , Bareilly, U.P. on June 2<sup>nd</sup> **2020**.
  13. National level quiz on “Green Chemistry” organized by Department of Chemistry, JB Institute of Engineering and Technology, Hyderabad, India on 9<sup>th</sup> June, **2020**.

### Computer Skills:

Software Packages | MS-Office, Adobe-Photoshop, Chem-Office, Chem-Draw 8.5, Origin 6 & 8.

### Language Efficiency:

English and Hindi | Read, Write, Speak

### Personal Details:

Father’s Name	Shri Anil Kumar Agarwal
Date of Birth	1 <sup>st</sup> July, 1982
Nationality	Indian
Gender	Female
Marital Status	Married
Corresponding / Permanent Address	Dr. Jyoti Agarwal, D/o Shri Anil Kumar Agarwal, Ward No. 01, Tanakpur – 262309, District- Champawat, Utrtrakhand, India.

### Teaching Assignments

Course taught in UG and PG level

#### PG courses (M.Sc. All semester)

👉 **2017-2022 ODD/EVEN SEM – M.Sc.(from Dec., 2017 to July, 2022)**

#### UG Course (B.Sc. All semester)

👉 **2017-2022 ODD/EVEN SEM -- B.Sc. (from Dec., 2017 to July, 2022)**