



# Dr. Tarun Rathore

## Ph.D. in Genetics & Plant Breeding

### Profile

I have completed my Ph.D. and am passionate about achieving exceptional results and paying great attention to even minor details. I have a great interest in nature, science, and technology serve as a constant source of inspiration, influencing my work as I apply scientific principles. I have a knack for teaching and genuinely enjoy sharing knowledge with others. I am versatile and adaptable, working well within teams, and my strong work ethic and commitment to continuous learning are well-recognized. I have a natural inclination towards innovation and possess creative problem-solving abilities. I leverage technology to drive success and achieve remarkable outcomes.

### Details

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### Educational Qualification

☐ **Ph.D. in Genetics & Plant Breeding.** **O.G.P.A- 8.32**

- **Chandra Shekhar Azad University of Agriculture & Technology.**  
15/11/2021 – 05/12/2024.
- Courses under the 5<sup>th</sup> Dean Committee of the I.C.A.R (Indian Council of Agriculture Research). Kanpur, Uttar Pradesh, India.
- **Thesis Title:** “Genetic assay and gene action assessment for yield and its attributing traits in Urdbean [*Vigna mungo* (L.) Hepper]”.

☐ **M.Sc. in Genetics & Plant Breeding.** **O.G.P.A- 8.38**

- **Chandra Shekhar Azad University of Agriculture & Technology.**  
07/2018 – 12/2020. Kanpur, Uttar Pradesh, India.
- **Thesis Title:** Selection parameters and genetic divergence studies in Pigeonpea [*Cajanus cajan* (L.) Millsp.].

☐ **B.Sc. (Hons.) in Agriculture.** **O.G.P.A- 8.215**

- **Narendra Deva University of Agriculture & Technology.**  
07/2014 – 06/2018. Kumarganj, Faizabad, Uttar Pradesh, India.

☐ **Intermediate 12<sup>th</sup>** 05/2009. **70.2 %**

- Subjects: Physics, Chemistry, Biology, Hindi, English.
- **Kendriya Vidyalaya No.1 Can'tt.** Kanpur, Uttar Pradesh, India.

☐ **High School 10<sup>th</sup>** 05/2007. **64 %**

- Subjects: English, Hindi, Mathematics, Science, and Social Science.
- **Kendriya Vidyalaya No.1 Can'tt.** Kanpur, Uttar Pradesh, India.

## Research & Working Experience

- Working as an Assistant Professor in the Department of Genetics and Plant Breeding, Eternal University, Baru Sahib, Himanchal Pradesh From 01.08.2025 – Present
- Working as an Assistant Professor in the Department of Agriculture, Mandsaur University, Mandsaur, M.P. Madhya Pradesh. From 03.04.2025 – 14.06.2025
- Rural Agriculture Work Experience (R.A.W.E) 6 months of working experience certificate for studying various farming problems and farmers' socio-economic conditions. From 15.07.2017 to 10.01.2018
- P.C.P Perform crop Production (Rice Var. Sarju 52, Chickpea) on the Farm during the 3<sup>rd</sup> and 4<sup>th</sup> Semester in agronomy practical. (08/2015-16)

## Publications:

### Research Papers:

1. Akhilesh Mishra, G. Rai, and **Tarun Rathore. 2025.** Evaluating the impact of zinc and iron biofortification on pigeonpea, concerned with a benefit-cost assessment. *Plant Archives* Vol. 25, No. 1, 2025 pp. 1696-1702. **NAAS: 5.59**
2. **Rathore, Tarun,** Rajendra Kumar Yadav, Shweta, Geeta Rai, Sanjana Pathak, and Aman Mishra. **2024.** “Character Association and Path Analysis for Yield and Its Attributing Traits in Urdbean Genotypes and Its Triple Test Cross F1 Hybrids”. *Journal of Scientific Research and Reports* 30 (7):429-36. <https://doi.org/10.9734/jsrr/2024/v30i72158> **NAAS: 5.17**
3. **Rathore, Tarun,** R.K. Yadav, Sarvendra Kumar, Lokendra Singh, Geeta Rai, and C.L. Maurya. **2024.** “Exploring Genetic Variability Parameters for Yield and Quality Traits in Urdbean Genotypes and Its Triple Test Cross F1 Hybrids”. *Journal of Experimental Agriculture International* 46 (7):308-16. <https://doi.org/10.9734/jesai/2024/v46i72586> **NAAS: 5.14**
4. Mishra, A., Pidurkar, S., **Rathore, T.,** Rai, G. (**2024**). Response of integrated nutrient management on growth and yield of black gram (*Vigna mungo* L. (Hepper). *Egyptian Journal of Agricultural Research*, 102(3), 345-353. doi: [10.21608/EJAR.2024.238426.1440](https://doi.org/10.21608/EJAR.2024.238426.1440). **Agriculture Research Centre, Ministry of Agriculture and Land Reclamation, Egypt.**
5. Chandramani Kushwaha, Lokendra Singh, R. P. Vyas, Pankaj Kumar Singh, **Tarun Rathore, et al., (2023)** Study about the Genetic Variability, Heritability, and Genetic Advance for Yield and Yield Attributing Traits of Brinjal (*Solanum melongena* L.) *International Journal of Environment and Climate Change* **Volume 13, Issue 11**, Page 4566-4574, 2023; Article no. IJECC.108422 ISSN: 2581-8627. **NAAS: 5.16**
6. Yadav. A., Singh S. V., Yadav. A., Kumar. S., **Rathore. T.,** Verma. S., and Kushwaha. C., (**2023**) Study of Heritability and Genetic Advance for Grain Yield and its Attributing Characters in the F1 Generation of Bread Wheat (*Triticum aestivum* L.) *Eco. Env. & Cons.* 29 (August Suppl. Issue): 2023; pp. (S104-S108). DOI No.: <http://doi.org/10.53550/EEC.2023.v29i04s.017> **NAAS: 5.05**
7. Akhilesh Mishra, Geeta Rai and **Tarun Rathore (2023)** Effect of Micronutrient Fortification, Plant Protection Practices on Yield of Pigeonpea [*Cajanus cajan* (L.)] in Central Plain Region of Uttar Pradesh (India). *Biological Forum – An International Journal*, 15(10): 415-420. **NAAS: 4.96**

8. Aman Mishra, Shweta, **Tarun Rathore** and Abhishek Pati Tiwari **(2023)** Studies on character association and path coefficient analysis for yield and yield related traits in Greengram [*Vigna radiata* (L.) Wilczek]. Asian Jr. of Microbiol. Biotech. Env. Sc. Vol. 25, No. (4): 2023: 717-721 © EM International ISSN-0972-3005 DOI No.: <http://doi.org/10.53550/AJMBES.2023.v25i04.020> **NAAS: 4.93**
9. Aman Mishra, Shweta, **Tarun Rathore** and Abhishek Pati Tiwari **(2023)** Studies on variability, heritability, and genetic advance for yield and yield related traits in Greengram [*Vigna radiata* (L.) Wilczek]. Asian Jr. of Microbiol. Biotech. Env. Sc. Vol. 25, No. (4): 2023: 722-725 © EM International ISSN-0972-3005. DOI No.: <http://doi.org/10.53550/AJMBES.2023.v25i04.021> **NAAS: 4.93**
10. **Rathore. T.**, Yadav. R.K., Singh. L., *et al.*, **(2023)** Genetic divergence studies and Clustering by Tocher's Method for yield and quality traits in Pigeonpea [*Cajanus cajan* (L.) Mill sp.]. The Pharma Innovation Journal, 12(2): 2910-2915. **NAAS: 5.23**
11. **Rathore. T.**, Srivastava. A. K., Kushwaha. C., and Kumar. B., **(2020)** Genetic Variability and Character Association for Yield and its Contributing Characters in Pigeonpea [*Cajanus cajan* (L.) Millsp.] in Central Plain Agro- Climatic Region of Uttar Pradesh (India) International Journal of Current Microbiology and Applied Sciences **ISSN:** 2319-7706 Special Issue-11 pp. 3297-3308.

## Article:

- ❑ **Rathore. T.**, *et.al.* Millets: The Crop of Past, Present, and Future. **(2023)** Ecofarming e-Magazine for Agriculture and Allied Sciences **e-ISSN: 2583-0791 Ecofarming Vol. 03 (02): 115-117, 2023.**

## Book Chapter:

- ❑ **Tarun Rathore (2024)** Nanotechnology-assisted marker-assisted selection in crop breeding – “Plant and Environmental Science”; *DvS Scientific Publication*. **ISBN Number: 978-93-6688-218-5.** 220-245.

## Conferences / Abstract, Oral & Poster Presentation:

- ❑ Abstract published at National Conference on “**Organic & Natural Farming in Context to Indian Agriculture**” (**NCONFIA-2022**) Chandra Shekhar Azad University of Agriculture & Technology, Kanpur. **13<sup>th</sup> – 14<sup>th</sup> May 2022.**
- ❑ **Oral presentation** of Research paper in “**International Conference on Agriculture Science and Technology: Challenges and Prospects (AST-2022)**”. **06 – 08 May 2022.**
- ❑ Abstract published at the **5<sup>th</sup> International Conference** held on entitled “**Advance in Smart Agriculture and Biodiversity Conservation for Sustainable Development (SABCD-2022)**” at Conference Hall, Jaipur National University, (Pink City) Jaipur, Rajasthan, India. **04<sup>th</sup> – 06<sup>th</sup> March 2022.**
- ❑ **Poster Presentation** at the **4<sup>th</sup> International Conference** on “**Global Approaches in Natural Resources Management for Climate Smart Agriculture (GNRSA-2020)**” during the pandemic Era of Covid-19 held at, Shobhit Deemed University, Modipuram, Meerut, U.P. **26<sup>th</sup> – 28<sup>th</sup> Feb 2021.**

## Professional Development (Training / Certificate Course):

- ❑ **AgMOOCs** online course on “**Agricultural Statistics in Practice**” conducted by **IIT, Kanpur** achieved a **competency certificate** issued by Commonwealth of Learning (COL), **Canada**.  
From 11<sup>th</sup> July to 31<sup>st</sup> August **2023**.
- ❑ Certificate Course on “**Data Analytics using Python**”. Under **NAHEP-CAAST**, at Information Technology Centre, **Anand Agriculture University (A.A.U) Anand, Gujarat**.  
From 5<sup>th</sup> June to 17<sup>th</sup> June **2023**.
- ❑ **5 Days** Certificate Course on “**Geospatial Technology for Climate Smart Agriculture**”. Conducted by the Indian Institute of Remote Sensing (**IIRS**), **ISRO**, Enrolment No. 20231192000531.  
From 10<sup>th</sup> July to 14<sup>th</sup> July **2023**.
- ❑ **10 Days Training Program** “Understanding Biometrical Genetics: Statistica Maneuvering towards Ensuring Food Security” organized by Dryland Agriculture Research Station (DARS) under IDP-NAHEP SKUAST-Kashmir. NAHEPSKUASTK/Trg/DARS/20/BG29. September 7<sup>th</sup> –16<sup>th</sup>, **2020**.
- ❑ Participated in Advanced training on “**Seed Production and Quality Assurance of Pulses**” (Under “Centre for Advance Agricultural Science & Technology On Nutritional Crops” (**CAAST-NC**)). Funded by **World Bank & NAHEP**.  
13<sup>th</sup> – 14<sup>th</sup> January **2020**.
- ❑ Participated in Brain Storming session on “**Bio Fortification Towards Food Security**” (Feb/2019) Under “Centre for Advance Agricultural Science & Technology On Nutritional Crops” (**CAAST-NC**)). Funded by **World Bank**.
- ❑ National Training on “**Recent Advances in Nutrient Management in Vegetables under protected Cultivation**”. Under “Centre for Advance Agricultural Science & Technology On Nutritional Crops” (**CAAST-NC**)). Sponsored by **I.A.R.I** & Funded by **World Bank**.  
29<sup>th</sup> – 30<sup>th</sup> Nov **2019**.
- ❑ **CCC Certificate (04/2018)** CCC (**Course On Computer Concepts**) Conducted by the National Institute of Electronics & Information Technology (NIELIT), **Gov. of India**. **Sl. No.** GOC8F1B58DFF1802.
- ❑ **R.A.W.E Certificate** during B.Sc.(Hons.) 7<sup>th</sup> Semester experience leadership in **R.A.W.E (Rural Agriculture Work Experience)** Program N.D.U.A.T, Faizabad. No. 1887/DCA/2018.  
From 15.07.**2017** to 10.01.**2018**.

## Curricular Activities:

### ❑ Seminar Experience

- **Ph.D. Course Seminar (G.P.B 691 & G.P.B 692)** **I.D No:** CA-12047/2021.  
1<sup>st</sup> Seminar Topic: The Future of Food? CRISPR - Cas 9 Edited Agriculture.  
2<sup>nd</sup> Seminar Topic: Nanotechnology: Based Genome Editing System & Its Application in Crop Improvement.
- **M.Sc. Course Seminar (G.P.B 599)** **I.D No:** CA-10798/2018.  
1<sup>st</sup> Seminar Topic: Mating Designs.  
Thesis Seminar Topic: “Selection Parameters and Genetic Divergence Studies in Pigeonpea [*Cajanus cajan* (L.) Millsp.]”.

## Co-Curricular Activities:

- ❑ Proficient in **DNA Extraction, Polymerase Chain Reaction (PCR), and Gel Electrophoresis techniques**; gained hands-on expertise through self-directed learning.
- ❑ **12 Days** online WGCapD **Webinar Series** on **“Geoprocessing using Python”**. Under **CEOS** (Committee on Earth Observation Satellites), Conducted by The Indian Institute of Remote Sensing (**IIRS**), **ISRO**, **GOI**. Enrolment No. 202350082000249. From 17<sup>th</sup> July to 28<sup>th</sup> July **2023**.
- ❑ **State-level Webinar** on the Application of Renewable Energy Technologies in Agriculture. Organized by Sarda Krushinagar Dantiwada Agriculture University and All India Agricultural Student Association (AIASA). 2<sup>nd</sup> January **2023**.
- ❑ **One-week** Faculty Development Program on **“Effective Research Methodology and Publication”**. **Organizers:** SGT University and Just Agriculture Education Group. 13<sup>th</sup> - 19<sup>th</sup> Feb. **2023**.
- ❑ **One-week** International Faculty Development Program on **“Improving the Writing Skills of Early Career Researchers”** Certificate No. JA/FDP/686 15<sup>th</sup> – 21<sup>st</sup> December. **2022**.  
**Organizers:** S.K.A.U.S.T, Kashmir University, and Just Agriculture Education Group.
- ❑ **21 Days** online WGCapD **Webinar Series** on **“Remote Sensing in Crop Monitoring and Assessment”**. Under **CEOS** (Committee on Earth Observation Satellites), Conducted by The Indian Institute of Remote Sensing (**IIRS**), **ISRO**, **GOI**. Enrolment No. 202050040117885. From 19<sup>th</sup> May to 9<sup>th</sup> June **2020**.
- ❑ **Awareness Quiz**, On **“International Day For Biological Diversity 2020”** conducted by the Centre for Environmental Education, Holy Cross College, Kanyakumari, Tamil Nadu.

## Extracurricular activities:

- ❑ Event Anchoring (Performed as an anchor in college functions).
- ❑ Psychological mentoring.

## Computer Skills:

- ❑ Proficient in **Microsoft Office:** MS Word, MS Excel, MS PowerPoint (PPT Presentation).
- ❑ Data Analysis and Visualization Using **Python** with the help of **Jupyter Notebook**.
- ❑ Implementation of Artificial Intelligence (**AI**) (**ChatGPT**, Slides AI).
- ❑ **CCC** Certificate (Course On Computer Concepts).

## Strengths:

- ❑ Quick Learner.
- ❑ Collaboration/Teamwork.
- ❑ Active learning.
- ❑ Detail Oriented.
- ❑ Self-Motivated.
- ❑ Good communication skills.
- ❑ Good analytical skills.
- ❑ Interdisciplinary & Multidisciplinary approach.

## Hobbies:

- ❑ Singing and learning Multilingual songs.
- ❑ Listening to Music.
- ❑ Meditation.
- ❑ Sketching.
- ❑ Watching Sci-fi Movies.

## References:

□ **Dr. Rajendra Kumar Yadav**

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Genetics & Plant Breeding.  
Chandra Shekhar Azad University Of  
Agriculture & Technology, Kanpur  
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□ **Dr. Sanjay Singh**

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□ **Dr. Akhilesh Mishra**

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## Declaration:

- I solemnly declare that the particulars as furnished by me in this form are true, correct and complete in all respects. I also declare that if any information is found incorrect, a legal action can be taken against me.

**Date:** 04.08.2025

**Place:** Baru Sahib



**Tarun Rathore**