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Postdoctoral Research Associate

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***Education:***

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| 2021 | Ph.D. Soil Science | South Dakota State University-Brookings, SD, USA |
| 2017 | M.S. Soil Physics | Punjab Agricultural University-Ludhiana, India |
| 2015 | B.S. Agriculture | Punjab Agricultural University-Ludhiana, India |

***Professional Appointments:***

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| June 2021-Present | **Postdoctoral Research Associate,** Biosystems Engineering and Soil Science, The University of Tennessee with Dr. Debasish Saha |
| May 2018-April 2021 | **Graduate Research Assistant,** Department of Agronomy, Horticulture and Plant Science, South Dakota State University with Dr. Sandeep Kumar |

***Refereed Publications:***

* **Dhaliwal, J.K.**, Panday, D., Saha, D., Lee, J., Sindhu, J., Sean, M.S and Mengistu, A. 2022.Predicting and interpreting cotton yield and its determinants under long-term conservation management practices using machine learning. *Computers and Electronics in Agriculture.* <http://dx.doi.org/10.1016/j.compag.2022.107107>
* **Dhaliwal, J.K.** and Kumar, S. 2022. 3D-visualization and quantification of soil porous structure under three land uses using X-ray micro-tomography scanning. *Soil and Tillage Research.* <https://doi.org/10.1016/j.still.2021.105305>
* Abgandura, G., Mahal, N., Butail, N.P., **Dhaliwal, J.K.,** Gautam, A., Bawa, Kovacs, P and Kumar, S. 2022. [Soil labile carbon and nitrogen fractions after eleven years of manure and mineral fertilizer applications](https://www.researchgate.net/publication/359043440_Soil_labile_carbon_and_nitrogen_fractions_after_eleven_years_of_manure_and_mineral_fertilizer_applications?_sg%5B0%5D=bsIHSyNh2agpm-_Es7oJPoga5yIaHgaS-1sVMMr9I2Hn2GZL0nFJvyM4bnEinj3-7L6ZX0BP0iDbdUUF2phG0PD1Lp9af9K-gqVDPxuP.i3iVdOQu_cdRgFt2P3K1J2sIJl2078ri70uO-M_bIcs8O57jEfqZ9z1jek0FZCEGrXQw3VqMFp7OZA4ypymGjQ). *Archives of Agronomy and Soil Science*.

<https://doi.org/10.1080/03650340.2022.2043549>

* **Dhaliwal, J.K.**, Sagar, K.L., Chellappa, J., Sekaran, U. and Kumar, S 2021. Labile soil carbon and nitrogen fractions under short and long-term integrated crop–livestock agroecosystems*.* *Soil Research*. <https://doi.org/10.1071/SR21038>
* **Dhaliwal, J.K.** and Kumar, S. 2020. Hydro-physical soil properties as influenced by short-and long-term integrated crop-livestock agroecosystems. *Soil Science Society of America Journal.* <https://doi.org/10.1002/saj2.20214>
* **Dhaliwal, J.K.**, Singh, M.J., Sharma, S, Gupta, N. and Kukal, S.S. 2020. Medium term impact of tillage and residue retention on soil physical and biological environment in dry seeded rice-wheat system in north-west India. *Soil Research*. <https://doi.org/10.1071/SR19238>
* Singh, N.\*, **Dhaliwal, J.K.**\*, Sekaran, U. and Kumar, S. 2019. Soil hydrological properties as influenced by long-term nitrogen application and landscape positions under switchgrass seeded to a marginal cropland. *GCB Bioenergy*. <https://doi.org/10.1111/gcbb.12611>