

Curriculum Vitæ (CV)

Dr. SHASHANK SRIVASTAVA

Male, 34 Yrs (DOB: Mar 22, 1989)

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Educational Qualification

Class/Qualification	University / Board	Institute/ School	Year of Passing	CGPA / %
Post-Doctoral Fellow (Centre for the Environment)	IIT Guwahati- Indian Institute of Technology Guwahati	IIT Guwahati- Indian Institute of Technology Guwahati	Pursuing since Dec'23	N/A
Post-Doctoral Fellow (Civil Engineering – Specialization in Environmental Engg.)	NIT Warangal - National Institute of Technology Warangal	NIT Warangal - National Institute of Technology Warangal	April'2022- Dec'2023	N/A
Ph.D. (Civil Engg. - Specialization in Environmental Engg.)	NIT Jaipur - Malaviya National Institute of Technology Jaipur	NIT Jaipur - Malaviya National Institute of Technology Jaipur	2021	8.60 / 81.0%
M.Tech. (Environmental Engg)	NIT Jaipur - Malaviya National Institute of Technology Jaipur	NIT Jaipur - Malaviya National Institute of Technology Jaipur	2016	7.84 / 73.4%
B.Tech. (Mechanical Engineering)	Gautam Buddh Technical University, Lucknow (Formerly UP Tech. University)	JSS Academy of Technical Education, NOIDA, Gautam Buddh Nagar (UP)	2012	72.82%
AISSE (XII)	Central Board of Secondary Education	Delhi Public School, Lucknow	2007	82.40%
AISSE (X)	Central Board of Secondary Education	Delhi Public School, Kanpur	2005	90.20%

Research Paper Publications in International Journals

1. Provisional selection for publication of Book Chapter in a **Springer book series Lecture Notes in Civil Engineering** (Publisher: Springer, Singapore)- **Srivastava, S.**, Gautam, S. and Mati, C.S. (2023). Removal of Heavy Metals from Sewage Sludge by using Zeolite Socony Mobil-5. In R.R. Dash, S. Mohapatro & M. Behera (Eds.), *Pollution Control for Clean Environment: Proceedings of ICPCCE 2023* (Vol. 2). Singapore: Springer Nature Singapore.
2. Publication of peer-reviewed research paper in SCI-indexed journal (Publisher: Elsevier, Oxford, UK)- Mahata S., Periyavaram S. R., Akkupalli N. K., **Srivastava S.** and Matli C. S. (2023) 'A review on Co-Hydrothermal Carbonization of sludge: Effect of process parameters, reaction path way, and pollutant transport', *Journal of the Energy Institute*, 110(July), p. 101340. doi: 10.1016/j.joei.2023.101340.
3. Publication of peer-reviewed research paper in SCI-indexed journal (Publisher: Springer, Switzerland)- **Srivastava, S.**, Tamta, A. and Matli, C. S. (2022) 'Co-Treatment of Agricultural Runoff and Leachate Using Bacto-Algal Co-Culture', *Water, Air, & Soil Pollution*, 233(12), p. 523. doi: 10.1007/s11270-022-05996-w.
4. Publication of peer-reviewed research paper in SCI-indexed journal (Publisher: International Water Association, London, UK)- **Srivastava, S.**, Saxena, K., Brighu, U. and Gupta, A. B. (2022) 'Comparative evaluation of pilot-scale reactors based on pulsating floc blanket clarification and conventional clariflocculation technologies in simultaneous treatment of natural organic matter and turbidity', *Water Supply*, 22(8), pp. 6945-6958. doi: 10.2166/ws.2022.267
5. Publication of peer-reviewed research paper in SCI-indexed journal (Publisher: International Water Association, London, UK)- **Srivastava, S.**, Brighu, U. and Gupta, A. B. (2021) 'Characterization of particles and their relation with residual aluminum in water treated with pulsating floc blanket clarifiers and conventional clariflocculators using PACl', *Water Supply*, 21(8), pp. 4548-4562. doi: 10.2166/ws.2021.200.
6. Publication of peer-reviewed research paper in SCI-indexed journal (Publisher: Wiley, New Jersey, USA)- **Srivastava, S.**, Brighu, U. and Gupta, A. B. (2021) 'Performance assessment of pulsating floc blanket clarifiers and conventional clariflocculators in pilot-scale models', *Water Environment Research*, 93(6), pp. 887-895. doi: 10.1002/wer.1479.
7. Publication of peer-reviewed research paper in SCI-indexed journal (Publisher: Taylor & Francis Group, London, UK)- **Srivastava, S.**, Nahar, A. S., Brighu, U. and Gupta, A. B. (2019) 'Comparative study of three methods for the analysis of nitrate nitrogen in synthetic water and wastewater samples', *International Journal of Environmental Analytical Chemistry*, 99(12), pp. 1164-1185. doi: 10.1080/03067319.2019.1618456.

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8. Publication of peer-reviewed research paper in SCOPUS-indexed journal (Publisher: Wiley, New Jersey, USA)- **Srivastava, S.**, Brighu, U. and Rajput, H. (2018) 'Waste-to-energy recovery potential: A case study at Jaipur railway station', *Environmental Quality Management*, 27(4), pp. 107–113. doi: 10.1002/tqem.21558.

Conferences & Paper Presentations

1. Presentation at **International** Conference (Organizer: Indian Institute of Technology Bhubaneswar)- **Srivastava, S.**, Gautam, S. and Mati, C.S. (2023) 'Removal of Heavy Metals from Sewage Sludge by using Zeolite Socony Mobil-5', Proceedings of International Conference on Pollution Control for Clean Environment (ICPCCE-2023), Bhubaneswar, Odisha, India, 1(1), Paper ID 21, p.19.
2. Poster Presentation at **International** Conference (Organizer: Department of Civil Engineering and School of Agro and Rural Technology, Indian Institute of Technology Guwahati)- **Meghna, Srivastava, S.**, Rao, P.V. (2023) 'Arsenic sequestration by the use of iron fillings', 4th International Conference on Waste Management, Guwahati, Assam, India, p. 241.
3. Presentation at **International** Conference (Organizer: American Society of Civil Engineers (ASCE) India Section, ASCE, Virginia, USA)- **Srivastava, S.**, Brighu, U. and Gupta, A.B. (2020) 'Performance of conventional clariflocculators and upflow pulsating floc blanket clarifiers in pilot scale models', Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies" (CRSIDE2020), Kolkata, India, 1(1), AIC2020-212-520, p.148. ISBN: 978-93-5396-500-6. Also received financial assistance from TEQIP-III for registration and TA for the same.
4. Presentation at **National** Conference (Organizer: IWWA) on 'Performance Analysis of Superpulsator® Clariflocculator' in National Seminar organized by Indian Water Works Association (IWWA) at Jaipur on 22nd Mar'2016 (World Water Day).

Key Projects and Trainings

- M.Tech. Theses Guided (as Institute Post-Doctoral Fellow; NIT Warangal): 4 nos. Role: Co-supervisor
- Ph.D. Thesis entitled 'A Study on Residual Aluminum in water treated by a Floc Blanket Clarifier versus Conventional Clariflocculator' (December 2021)
- Attended short-term course (STC) on "Membrane Processes for Water Purification and Reject Management" sponsored by TEQIP III and organized by the Department of Chemical Engineering, MNIT Jaipur during 20-24 September, 2017.
- M.Tech. Dissertation 'Development of Pilot Plant based on Superpulsator® Clarifier & Comparative Analysis of Effect of Polyaluminium Chloride and Alum on the Performance of the Pilot Plant and Conventional Clariflocculator' (June 2016)
- Dissertation submitted in B. Tech. entitled 'Impact analysis of foamed carbon fiber composite' (June 2012)

Professional Achievements

- **Selections in India:**
 - Selection for the position of "Institute Postdoctoral Fellow" at the Centre for the Environment, Indian Institute of Technology Guwahati. Joined on 28th Dec'2023.
 - Selection for the position of "Postdoctoral Fellow" at the Department of Civil Engineering, National Institute of Technology Warangal. Worked since 5th Apr'2022 till 26th Dec'2023.
 - Selection for fellowship as "Research Associate" for the project entitled "Selection guidelines for constructed wetland systems for treatment of sewage in India" sponsored by NMCG, Ministry of Jal Shakti, Government of India in the Department of Hydro and Renewable Energy, Indian Institute of Technology, Roorkee – 2022
 - Selection as Graduate Engineer Trainee in "Larsen & Toubro Limited" – 2012
 - Selection as System Engineer Trainee in "Infosys" – 2012
- **Selections Abroad:**
 - Selected for MS program at "University of Cincinnati", OH, USA with award of prestigious University Graduate Scholarship (UGS) of \$10,582.00 per semester. However, preferred to join Ph.D. with Institute Assistantship at NIT Jaipur. - 2017
 - Received offer for MS program from "University at Buffalo", NY, USA. - 2017

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▪ Memberships, Awards and Recognitions:

- Member of the International Water Association (London, UK) and IWA Young Water Professionals since November 20, 2018.
- Invitation to contribute a chapter to “Aquatic Plants - Biology and Environmental Impacts”, “Wastewater Treatment” and “Energy Management Systems in Process Industries - Current Practice and Challenges in Era of Industry 4.0”, OA Books published by Intechopen Ltd. (London, UK).
- Invitations to review manuscripts submitted to SCI indexed journal of Environmental Monitoring & Assessment, and Soft Computing both published by Springer Nature Group (Berlin, Germany).
- Secured IInd position in Environmental Quiz organized by Centre for Energy & Environment, MNIT Jaipur on April 22, 2015 (World Earth Day).

Areas of Interest

Cutting edge interdisciplinary research in the field of Environmental, Mechanical and Civil Engineering is my forte. My areas of interest broadly include Water & Wastewater Treatment, Waste to Energy, Physico-Chemical Unit Processes, Waste Management, Sustainable Technologies, CAD, Renewable Energy Systems, Environmental Analytical Chemistry, Environmental Biotechnology and Mechanics of Solids/Fluids.

Subjects Taught at NIT Warangal During Post-Doctoral Fellowship

Environmental Chemistry and Microbiology (Core - Theory)	Hazardous Waste Management (Core - Theory)	Advanced Environmental Engineering Lab (Lab Course)
Geographical Information Systems Lab (Lab Course)	Environmental Engineering Lab (Lab Course)	

Academic Achievements : Competitive Examinations

GRE [®] (2016) - Score : 322 + 3.5	TOEFL [®] (2016) – Score : 110	GATE - Qualified in all four appearances in Years 2011, 2013, 2014 and 2016
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Other Information

- Assisted in organizing a GIAN course on “Biosphere - Contemporary Global Challenges” organized by Water and Environment Division, Deptt. of Civil Engg. at NIT Warangal.
- **Technical Skills:** Knowledge of computer coding language C/C++, Python; AutoCAD[®], FIJI/IMAGEJ, ANSYS[®] and SimaPro[®].
- **Correspondence Address -**
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- **Permanent Address –**
S/o Sri S.K. Srivastava, Flat no. A-406, Indian Oil Apartment, Plot no. C-58/23, Sector-62, NOIDA, Distt. Gautam Buddh Nagar, U.P. - 201301