

# ADITYA SHANKAR GHOSH

Research Scholar (Ph.D)

*Motivated Engineering Fellow trained and experienced in Teaching, Education and Learning. Highly effective at Delivering Lectures and completion of Academic Projects. Exceptional Interpersonal and Communication skills with effective Multitasking abilities. Prepared to deliver 1<sup>st</sup> rate results to every student's satisfaction.*

## Personal Information

### E-mail Id.

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### Facebook:

<https://www.facebook.com/aditya.ghosh.790>

### Instagram:

[https://www.instagram.com/explore\\_the\\_unexplored/](https://www.instagram.com/explore_the_unexplored/)

### Linkedin:

<https://www.linkedin.com/in/aditya-shankar-ghosh-ba6744259/>

## WORK HISTORY

|                          |                                                                                                                                                                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2022 – 01<br>- present   | <b>Academic Specialist – Student Experience (Part Time.)</b><br><i>BYJU'S Educational Technology Company, Kolkata</i>                                                                                                                                                                |
| 2017 – 08<br>- present   | <b>Senior Research Fellow (Civil Engg. Dept.)</b><br><i>Indian Institute of Engineering Science and Technology (I.I.E.S.T) Shibpur, Howrah</i><br>An Institute of National Importance.                                                                                               |
| 2015 – 01<br>- 2017 – 07 | <b>Assistant Professor &amp; Teacher-In-Charge (Civil Engg. Dept.)</b><br><i>Budge Budge Institute of Technology, Kolkata</i><br>Engineering college under MAKAUT (Formerly WBUT).                                                                                                   |
| 2018 – 03<br>- 2018 – 07 | <b>Assistant Professor (Visiting, Civil Engg. Dept.)</b><br><i>Future Institute of Technology, Kolkata</i><br>Engineering college under MAKAUT (Formerly WBUT).                                                                                                                      |
| 2016 – 02<br>- 2016 – 12 | <b>Guest Lecturer (Civil Engg. Dept.)</b><br><i>Gargi Memorial Institute of Technology, Kolkata</i><br>Engineering college under MAKAUT (Formerly WBUT).                                                                                                                             |
| 2015 – 02<br>- 2015 – 07 | <b>Part Time Faculty (Civil Engg. Dept.)</b><br><i>JIS College of Engineering, Kalyani</i><br>An Autonomous Institute under MAKAUT (Formerly WBUT).                                                                                                                                  |
| 2013 – 07<br>- 2014 – 05 | <b>Protem Lecturer (Civil Engg. Dept.)</b><br><i>Gargi Memorial Institute of Technology, Kolkata</i><br>Engineering college under MAKAUT (Formerly WBUT).                                                                                                                            |
| 2011 – 11<br>- 2012 – 03 | <b>Visiting Faculty (Civil Engg. Dept.)</b><br><i>Narula Institute of Technology, Kolkata</i><br>An Autonomous Institute under MAKAUT (Formerly WBUT).                                                                                                                               |
| 2018 – 07<br>- 2018 – 12 | <b>Master Teacher for GATE and IES (Traffic &amp; Highway Engg.)</b><br><i>Sri Ramkrishna Institute of Engineering, Kolkata</i><br>A coaching institute preparing engineering students for various Govt. technical competitive exams like GATE, IES, SSC, PSC, RRB, PSUs and Others. |

## Skills



**Reason & Problem Solving**



**Manage Oneself, People, Time & Things**



**Work with People**



## EDUCATION

|                          |                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2017 – 08<br>- present   | <b>Indian Institute of Engineering Science and Technology (I.I.E.S.T) Shibpur, Howrah</b><br><i>Ph.D. Traffic &amp; Highway Engineering.</i>                  |
| 2011 – 08<br>- 2014 – 12 | <b>Indian Institute of Engineering Science and Technology (I.I.E.S.T) Shibpur, Howrah</b><br><i>Masters of Engineering (M.E), Traffic &amp; Highway Engg.</i> |
| 2007 – 07<br>- 2011 – 06 | <b>Narula Institute of Technology, Kolkata</b><br><i>Bachelor of Technology, Civil Engineering.</i>                                                           |
| 2005 – 03<br>- 2007 – 03 | <b>St. Joseph &amp; Mary's School, Kolkata</b><br><i>I.S.C.E. (Senior Secondary), Pure Science.</i>                                                           |
| 2003 – 05                | <b>Vivekananda Mission School, Kolkata</b><br><i>I.C.S.E. (Secondary).</i>                                                                                    |

## Software

**Microsoft Office**



**Microsoft Excel**



**Originpro**



**LWDmod**



## PROJECTS & CONSULTANCIES

|                          |                                                                                                                                                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2022 – 07<br>- 2022 – 07 | <b>Design check of Srijan Gangaghat Road Section for M. N. Consultants Pvt. Ltd.</b><br><i>Consultant</i>                                                                                                          |
| 2022 – 02<br>- 2022 – 02 | <b>Survey of Physical Condition of Public Road by WBSRDA in Singur using LFWD.</b><br><i>Research Scholar</i>                                                                                                      |
| 2021 – 10<br>- 2022 – 02 | <b>Design check and design of Pavements and various road works for various projects along with M. N. Consultants Pvt. Ltd.</b><br><i>Consultant</i>                                                                |
| 2018 – 03<br>- 2018 – 03 | <b>Survey of Physical Condition of Public Road Interconnection with Development &amp; Strengthening of Existing Public Road from Anchorage Camp to Durgachak Level Crossing by KoPT</b><br><i>Research Scholar</i> |
| 2011 – 08<br>- 2014 – 11 | <b>A Study on the Effect of Rice Husk Ash (RHA) on Mix Design of High Grade Concrete used for Rigid Pavement</b><br><i>Post Graduate Fellow</i>                                                                    |
| 2010 – 06<br>- 2010 – 07 | <b>Nagerbazar Flyover Project under Hooghly River Bridge Commissioners (HRBC)</b><br><i>Under – graduate Project Intern</i>                                                                                        |

## Languages

English



Hindi



Bengali (Regional)



## Hobby

- Travelling
- Reading
- Outdoor Sports
- Internet Surfing

## AWARDS

- 2021 – 12 **Springer Best Paper Award at GEO-INDIA IGC-2021 conference**  
*NIT Tiruchirappalli*
- 2019 – 03 **Best Technical Paper Presentation at 7<sup>th</sup> Indian Young Geotechnical Engineers Conference (7IYGEC)**  
*NIT Silchar*
- 2017 – 08 **SRF Gate Scholarship**  
*MHRD, India*
- 2011 – 03 **AICTE GATE Scholarship 2011**  
*MHRD, India*
- 2009 – 10 **Merit Certificate for securing 2<sup>nd</sup> Position among B.Tech. students of the institute in 1<sup>st</sup> Semester Examination**  
*Narula Institute of Technology*

## COURSES

**AutoCAD with AutoLISP**

## CERTIFICATES

- 2022 – 05 **Participated in 1-Day Webinar on Application of LIDAR Technology in Transportation Engineering**  
*Amity School of Engineering & Technology, Mumbai*
- 2021 – 12 **Participated & Presented a paper at international e-Conference on “Revisiting Strategies For Sustainable Development” e-ConSus 2021**  
*e-ConSus Conference Committee under the aegis of the IQAC, Banwarilal Bhalotia College, Asansol.*
- 2021 – 12 **Participated & Presented a Technical Paper in the Indian Geotechnical Conference 2021, IGC-2021 GEO-INDIA**  
*National Institute of Technology, Tiruchirappalli*
- 2021 – 12 **Participated and Presented research paper in the International Conference on Advances in Construction Materials and Structures (ICCMS 2021)**  
*St. Thomas Institute of Science and Technology, Kerala*

## CERTIFICATES (Contd.)

- 2021 – 02** Participated in 5-Days National Workshop on Application of Non-Conventional Pavement Materials and NDT in Road Infrastructure- Current Practice and Future Trends  
*Indian Institute of Engineering Science & Technology, Shibpur*
- 2020 – 07** Participated in Five Days International Virtual Workshop on Modern Trends in Transportation System (MTTS-2020)  
*National Institute of Technology, Silchar*
- 2020 – 03** Participated & Presented a Technical Paper in the 2<sup>nd</sup> ASCE India Conference on Challenges of Resilient & Sustainable Infrastructure Development in Emerging Economics (CRSIDE 2020)  
*American Society of Civil Engineering (ASCE) India Section*
- 2020 – 01** Participated in the “Five-Day Workshop on Transportation in Rural Areas”  
*Indian Institute of Engineering Science & Technology, Shibpur*
- 2019 – 06** Participated in the TEQIP-III Sponsored One-Day Seminar on “Climate Change & Water Crisis”  
*Indian Institute of Engineering Science and Technology, Shibpur*
- 2019 – 06** Participated in the TEQIP-III Sponsored One-Day Course on “Research & Innovation In Traffic Safety Engineering (RITSE-2019)”  
*Indian Institute of Engineering Science and Technology, Shibpur*
- 2019 – 03** Best Technical Paper Presentation at 7<sup>th</sup> Indian Young Geotechnical Engineers Conference (7IYGEC)  
*National Institute of Technology, Shilchar*
- 2017 – 06** Active participation in One Day Seminar on Advances in Mechatronics and Robotics Education, Research and Industrial Application  
*Indian Institute of Engineering Science and Technology, Shibpur*
- 2016 – 04** Participated in the TEQIP-II Sponsored 3-Days Workshop on “Modern Trends in Design & Maintenance of Rigid Pavements”  
*Indian Institute of Engineering Science and Technology, Shibpur*
- 2016 – 03** Participated in the Half-Day Seminar on “Earthquake Resistant Structure: Different Aspects”  
*Jadavpur University, Kolkata*
- 2015 – 10** Participated in the National Conference on Engineering Solutions to Sustainable Development.  
*Budge Budge Institute of Technology, Kolkata*
- 2015 – 08** Technical Paper Presentation at All India Seminar on Concrete Roads – An Alternative in Indian Milieu  
*The Institution of Engineers (India) Civil Engg. Division*
- 2012 – 03** Participated in the Awareness Programme on Green Building & Building Rating System  
*Bengal Engineering & Science University, Shibpur*
- 2009 – 10** Certificate of Merit for securing 2<sup>nd</sup> Position among the B.Tech. students of the Institute in 1<sup>st</sup> Semester Examination  
*Narula Institute of Technology, Kolkata*

## PUBLICATIONS

| SL No                         | Title of Paper(s)                                                                                                                              | Name of the Author(s)                                  | Name of the Journal(s)                                                                                                                                                | Page(s)                                                                                                                                       | Volume & Year                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Book Chapters</b>          |                                                                                                                                                |                                                        |                                                                                                                                                                       |                                                                                                                                               |                                                                                        |
| 1                             | Evaluating the Utility of Pond Ash as an Alternative Foundation Material Partially replacing Sand for Foundation Layers                        | Aditya Shankar Ghosh and Tapas Kumar Roy               | Springer book chapter, "Proceedings of the 7 <sup>th</sup> Indian Young Geotechnical Engineers Conference", 7IYGEC-2019                                               | Page No. 157-165<br>Chapter 18<br>Springer Nature<br>Part of the<br>Lecture Notes in<br>Civil Engineering<br>book Series                      | Volume 195<br>2022<br>ISBN No.: 978-981-16-6455-7<br>DOI:<br>10.1007/978-981-16-6456-4 |
| 2.                            | Evaluation of the Utility of Pond Ash as an Alternative Material for Subbase for Low Volume Roads                                              | Aditya Shankar Ghosh and Tapas Kumar Roy               | <i>Proceedings of Peer-Reviewed Full-Length Papers</i><br>Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies (CRSIDE 2020)      | Page No. 1616-1620                                                                                                                            | ISBN: 978-81-954551-0-2                                                                |
| 3.                            | Elemental Assessment of Pond Ash for Evaluating its Application as a Subbase Material for Hardstand                                            | Aditya Shankar Ghosh and Tapas Kumar Roy               | Lecture Notes in Civil Engineering, Kasinathan Muthukkumaran <i>et al.</i> (Eds.): Soil Behavior and Characterization of Geomaterials.                                | Chapter 9                                                                                                                                     | Volume 296<br>978-981-19-6512-8,<br>524207-1-En                                        |
| 4.                            | Sustainable Industrial Waste Management: Pond Ash as a Sustainable Alternative Foundation Material for Pavement Subbase Construction           | Aditya Shankar Ghosh and Tapas Kumar Roy               | Proceeding of e-ConSus 2021 on Revisiting Strategies for Sustainable Development,                                                                                     | Published as book chapter in Red'shine Publication                                                                                            | ISBN No.: 978-93-94727-41-0                                                            |
| <b>Journals</b>               |                                                                                                                                                |                                                        |                                                                                                                                                                       |                                                                                                                                               |                                                                                        |
| 1.                            | Evaluation of The Durability of Stabilized Conventional Granular Material with Pond Ash and Lime used as a Subbase Course of Flexible Pavement | Aditya Shankar Ghosh and Tapas Kumar Roy               | In Proceedings of International Conference on Advances in Construction Materials and Structures, 2021.                                                                | Materials Today: Proceedings                                                                                                                  | Volume 65,<br>Issue P2, 2022,<br>ISSN 2214-7853                                        |
| <b>Conference Proceedings</b> |                                                                                                                                                |                                                        |                                                                                                                                                                       |                                                                                                                                               |                                                                                        |
| 1.                            | Performance Evaluation of Nano Material Stabilized Pond Ash as Subbase Layer Material for Roadway Pavement                                     | Aditya Shankar Ghosh, Abhishek Roy and Tapas Kumar Roy | 2 <sup>nd</sup> International Conference of Construction Materials and Structures (ICCMS 2022)                                                                        | Abstract accepted                                                                                                                             |                                                                                        |
| 2.                            | Utility of Lime Stabilized Pond Ash and Sand Mix using Nano-material for the Subbase course of Industrial Pavements                            | Abhishek Roy, Aditya Shankar Ghosh and Tapas Kumar Roy | In 2 <sup>nd</sup> International Conference on Transportation Infrastructure Projects Conception To Execution (TIPCE- 2022), Indian Institute of Technology, Roorkee. | Acknowledged the full paper submission                                                                                                        |                                                                                        |
| 3.                            | Sustainable Industrial Waste Management: Pond Ash as a Sustainable Alternative Foundation Material for Pavement Subbase Construction           | Aditya Shankar Ghosh and Tapas Kumar Roy               | e-ConSus 2021 Abstract Proceedings December 21-22, 2021, Banwarilal Bhalotia College, Asansol.                                                                        | Page No. 03                                                                                                                                   | ISBN: 978-93-94727-41-0                                                                |
| 4.                            | Elemental Assessment of Pond Ash for Evaluating its Application as a Subbase Material for Hardstand                                            | Aditya Shankar Ghosh and Tapas Kumar Roy               | Proceedings of Indian Geotechnical Conference, IGC-2021, December 16-18, 2021 NIT Tiruchirappalli.                                                                    | Online Conference Proceedings:<br><a href="https://igc2021trichy.nitt.edu/proceedings.php">https://igc2021trichy.nitt.edu/proceedings.php</a> |                                                                                        |

## PUBLICATIONS (contd.)

| Sl. No                        | Title of Paper(s)                                                                                                       | Name of the Author(s)                    | Name of the Journal(s)                                                                                                                                                                     | Page(s)                                                                             | Volume & Year                                            |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------|
| <i>Conference Proceedings</i> |                                                                                                                         |                                          |                                                                                                                                                                                            |                                                                                     |                                                          |
| 5.                            | Evaluation of the Utility of Pond Ash as an Alternative Material for Subbase for Low Volume Roads                       | Aditya Shankar Ghosh and Tapas Kumar Roy | Proceedings of Peer-Reviewed Abstracts Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies, CRSIDE 2020, March 02-04, 2020, Kolkata                   | Page No. 270                                                                        | ISBN: 978-93-5396-500-6<br>Edition 1<br>Volume 1<br>2020 |
| 6.                            | Evaluating the Utility of Pond Ash as an Alternative Foundation Material Partially replacing Sand for Foundation Layers | Aditya Shankar Ghosh and Tapas Kumar Roy | Proceedings of the 7 <sup>th</sup> Indian Young Geotechnical Engineers Conference", 7IYGEC-2019, Organized by Indian Geotechnical Society, Silchar Chapter 15-16 <sup>th</sup> March, 2019 | Page No. 42                                                                         | Edition 1<br>Volume 1<br>2019                            |
| 7.                            | Prediction of CBR Values of High Plastic Soil for Gangetic Alluvium in West Bengal                                      | Krishnan Pal and Aditya Shankar Ghosh    | Conference Proceedings on Engineering Problems and Application of Mathematics 2016 (EPAM-2016), NIT Agartala                                                                               | Page No. 48                                                                         |                                                          |
| 8.                            | Impact of Rice Husk Ashes as a Supplementary Cementing Material used in Rigid Pavement                                  | Aditya Shankar Ghosh and Krishnan Pal    | Conference Proceedings on Engineering Problems and Application of Mathematics 2016 (EPAM-2016), NIT Agartala                                                                               | Page No. 35                                                                         |                                                          |
| 9.                            | Performance of Rice Husk Ash as a Replacement of Hydrated Cement Used in Rigid Pavement                                 | Aditya Shankar Ghosh and Tapas Kumar Roy | Conference Proceedings on All India Seminar on Concrete Roads- An Alternative In Indian Milieu, 2015                                                                                       | Chapter 8<br>Civil Engineering<br>Division, The Institution<br>of Engineers (India) | Vol. 1                                                   |

## RECOMMENDATIONS

**Professor Dr. Tapash Kumar Roy**  
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Department of Civil Engineering  
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Technology, Shibpur  
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**Professor Dr. Sudip Kumar Roy**  
Dean, Academic  
Professor  
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Indian Institute of Engineering Science and  
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**Dr. Anuj Kishor Budhkar**  
Assistant Professor GR-II  
Department of Civil Engineering  
Indian Institute of Engineering Science and  
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*Aditya Shankar Ghosh.*

