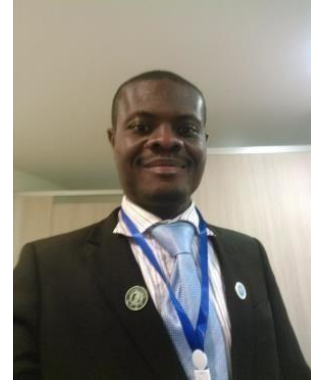


NAME: DR. DANIEL ADU	PHONE: +233243548803, +8618605243855
ADDRESS: Jiangsu University, Xuefu Road 212013, Zhenjiang, Jiangsu Province, China	EMAIL: adudaniel39@yahoo.com/danadu@ujs.edu.cn

PERSONAL DETAILS

DATE OF BIRTH : 24th July 1984
SEX : Male
NATIONALITY : Ghanaian
LANGUAGE SPOKEN : English/ Akan
MARITAL STATUS : Married



Personal statement

Dr. Daniel Adu is a bright individual, excellent in juggling multiple tasks and composed when working under pressure. I have 15 years Teaching experience as Lecturer/ Teacher in both Secondary school and University level and have acquired great teaching experience as well as great experience in both human interaction and management. I have extensive research experience on the subject of renewable energy, pollution and Environmental management with several publications in top academic journals. I have also worked in many fields and gained much experience to work in diverse fields in achieving set goals. I have attended several International Conferences as Guest speaker and made a lot of presentations as well as won several Awards. I also have the ability to relate to students and provide support to them during their university degree courses. In addition, I am very organized and thorough. I have also worked as Deputy Head of Science department and Assistant Head teacher in both Senior and junior High school plus many other fields and gained much experience to work in diverse fields in achieving set goals. I hold QTS certificate and other teaching professional qualifications. My objective is to work in a competitive environment that fosters learning and will make use of my analytical and logical reasoning skills. Varieties of professional actors, interdisciplinary work and international experiences have also permitted me to develop a keen attitude towards social interactions and communication among different partners. Finally, strong motivation and tenaciousness allowed me to acquire autonomously new working skills, and the will to learn even more. I have broad experience in the scientific industry and have obtained many skills and knowledge, which have allowed me to progress in my career. I am self-driven, outgoing and a highly motivated individual with an all-rounded background.

EDUCATIONAL BACKGROUND

- Sep-2016 to June-2019:** **PhD (Power Engineering and Eng. Thermophysics)**
 National Research Center of Pumps, Jiangsu University, China.
Research Direction Renewable Energy & Environment
Dissertation Title: Strategic thinking on Renewable Energy Development and Performance analysis of Pump as Turbine for Small hydropower Development in sub-Saharan Africa.
- Oct-2010 to Dec-2012:** **Master's in Environmental Management**
 Institute of Development Studies,
 University of Cape Coast, Ghana
Thesis Title: Investigating Plastic Waste Management practices in Cape Coast Metropolitan Assembly.
- Jun-2009 to Jul-2011:** **Qualified Teacher Status**
 Department of Education, United Kingdom
- Jun-2009 to Jul-2011:** **Bachelor of Science Education**
 University of Education, Winneba, Ghana.
Thesis Title: A study on the practical ways of teaching Science in high schools in Ghana
- Oct-2005 to Aug-2008:** **Diploma in Science Education**
 Mount Mary College of Education Somanya, Ghana

Training Courses and Workshops/ Conferences

- 2017 3rd World Congress and Expo on Green Energy, Berlin Germany
- 2018 3rd International Conference on Renewable Energy and Conservation Sydney, Australia.
- 2018 International Conference on Power, Energy & Electrical Engineering, Kyoto, Japan
- 2017 4th International Conference on Power and Energy Systems Engineering Berlin, Germany
- 2017 AWG-IAHR Symposium on Hydraulic Machinery and Systems, Beijing China
- 2017 International Symposium on cavitation and multiphase flow 2017
- 2016 International Symposium on cavitation and multiphase flow 2016.
- 2016 7TH Hydropower for today, Conference, at Hangzhou 2016,
- ITEC training course, Kumasi, Ghana
- Ghana Association of Science Teachers Conference
- 2014 Ghana Association of Science Teachers Conference
- 2013 Ghana Association of Science Teachers (GAST) Conference
- 2012 Ghana Association of Science Teachers (GAST)

WORK EXPERIENCE

- May-2022 to Date:** **Associate Professor** (*1 y*)
School of Management Science & Engineering,
Jiangsu University,
Zhenjiang, China
- Nov.-2022 to Date:** **Director of Universities Collaboration** (*1 y*),
Jiangsu University,
Zhenjiang, China
- Nov.-2022 to Date:** **Coordinator Graduate Students Associations** (*1 y*),
Jiangsu University,
Zhenjiang, China
- Dec.-2022 to Date:** **Academic Advisor for Graduate Students** (*1 y*),
Oversees Education College
Jiangsu University, Zhenjiang, China
- June-2019 to Feb.-2022:** **Postdoctoral Researcher** (*2 y9m*)
School of Management Science & Engineering,
Jiangsu University, Zhenjiang, China
- Nov.-2016 to May-2019:** **Secretary of international affairs** (*2 y 4m*)
National Research Centre of Pumps,
Jiangsu University, Zhenjiang, China
- Jan-2017 to May-2019:** **Coordinator Teaching Management** (*2 y*)
Assistance/ Head of Invigilation
Overseas Education College,
Jiangsu University, Zhenjiang, China
- Sep-2010 to Feb-2017** **Tutor/ Deputy Head of Science Department** (*6 y*)
Efutu Senior High School, Cape Coast, Ghana
- Feb.-2011 to Sep-2016** **Chief Examination Officer**
West African Examination Council,
Central Regional Office, Cape Coast, Ghana
- Sep-2011 to Sep-2016:** **Teacher/Head of Department (Part-time)** (*4 y*)
Montessori School Pedu,
Cape Coast, Ghana
- Sep-2008 to Sep-2010:** **Tutor/ Assistant Headmaster** (*2 y*)
Komenda Besease Junior High School,
Ghana Education Service,
KEEA Municipal Office, Elmina, Ghana.

ACADEMIC AWARDS AND HONORS

- ✦ **Most published and outstanding Graduate Student Award**, Jiangsu University, China, 2019
- ✦ **Certificate of Honor, TOP 10 Excellent Students Award**, Jiangsu University, China, 2019
- ✦ **Certificate of Honor, TOP 100 Excellent Students Award**, Jiangsu University, China, 2019
- ✦ **Best Presentation Award**, International Conference on Power, Energy & Electrical Engineering, Kyoto, Japan, 2018
- ✦ **Excellent Presentation**, 3rd International Conference on Renewable Energy and Conservation (ICREC 2018) Sydney, Australia, 2018
- ✦ **Excellent Young Researcher's Award** 3rd World Congress and Expo on Green Energy, Berlin Germany, 2017
- ✦ **Excellent Presentation Award**, 4th International Conference on Power & Energy Systems Engineering (CPESE) Berlin, Germany, 2017
- ✦ **Best Paper and Best Presentation Award**, 6th Sino-Foreign Post- Graduates Academic Forum at Jiangsu University, 2017
- ✦ **A&W Excellent International Students Scholarship**, China, 2017-2018
- ✦ **Jiangsu University National Research Center of Pumps Scholarship | 2016 – 2019**
- ✦ **Presidential Scholarship**, Jiangsu University 2016 -2019
- ✦ **Certificate of Honor, Best Teacher** Efutu Senior High School, Cape Coast, Ghana, 2014
- ✦ **Certificate of Honor, Most Hardworking and Best Trainee Teacher**, Mount marry College of Education, Somanya, Ghana, 2008.

RESEARCH PUBLICATION

First Authorship

1. Computational Analysis on Numerical Simulation of Internal Flow Physics for Pump as Turbine in Renewable Small Hydro Energy Generation, Complexity, vol. 2020, Article ID 8869766, **SCI, Q1, IF=2.83**].
2. investigating the state of renewable energy and concept of pump as turbine for energy generation development, Energy Reports, 2020, Vol. 6, Pp 60-66 [**SCI, Q1 IF=6.870**].
3. Numerical and experimental characterization of splitter blade impact on pump as turbine performance. Science Progress, 104(2), 0036850421993247. [**SCI Q1, IF=2.774**].
4. A Case Study of Status and Potential of Small Hydro-Power Plants in Southern African Development community, Energy Procedia 141 (2017) PP.352–359 353 [**SCI, Q3, IF= 0.47**]
5. The Prospects & Submissions for Small Hydropower Development in Sub-Saharan African, IOP Conf. Ser.: Earth Environ. Sci. 163 012022, 2018. [**EI, Q3, IF=0.41**]
6. Review on China's Renewable energy and future Projections, Int. Journal of Smart Grid and Clean Energy, 2018vol. 7, no. 3. [**EI/ SCOPUS Q4, IF=135**]
7. Strategic thinking on development of small Hydropower for Energy generation based on Its Environmental management, Basic & Clinical Phar. & Toxic Vol. 123 Special Issue: SI Supplement: 3(2018). [**SCI, Q2, IF= 2.65**]
8. Numerical investigation of Transient vortices and turbulent flow behavior in centrifugal pump operating in reverse mode as Turbine, Materials Science for Energy Technologies, 2019, Vol.2, pp.356-364, [**EI/SCOPUS, Q3, IF= 1.36**]
9. Performance characteristics of pump-as turbine for energy generation, Indian Journal of Engineering, 2018, vol. 15, pp 273-279. [**ISI/ SCOPUS, Q3, IF= 0.88**]
10. Pump as turbine for Small -Hydropower Generation a Solution to Africa's Energy, Int. Journal of Smart Grid and Clean Energy, 2019, vol. 8, [**EI/ SCOPUS Q4, IF=135**]
11. The Potential for Small Hydropower Plants in Ghana, Innov Ener Res 6: 166 [**SI, SCOPUS**].
12. Numerical investigation on the performance evaluation of pump as turbine for small hydropower generation

to overcome energy crisis in Africa, J Nucl Ene. Sci. Pow. Gene. Techno 2018, Vol. 7 [**EI/ SCOPUS**].

13. Renewable energy a solution to Sub-Saharan Africa energy crises, J Fundam Renewable Energy Appl 2018, Vol.8

14. Review on S-Shape Characteristics of Pump Turbine for Hydropower Generation, Journal of Electrical Power and Energy Systems, 2017. Vol. 6, pp. 43-50. [EI, ISI]
15. Overcoming electricity crisis in West Africa: An overview of the renewable energy status and development in West Africa, J Aeronaut Aerospace Eng (2018), Vol.7 Pp.72, ISSN: 2168-9792

Second and corresponding Author

16. Numerical Simulation and Computational Flow Characterization Analyses of Centrifugal Pump Operating as Turbine", Complexity, vol. 2021, Article ID 9695452, 9 pages, 2021.
17. Review on sub-Saharan African small-hydropower situation, Proceedings of the Institution of Civil Engineers - Energy 2018, vol.171:3, pp129-139. [SCI, Q3, IF=1.121].
18. Small hydropower by using pump as turbine for power generation in Southern Africa, Current Science, Vol. 118, NO. [SCI, Q3, IF= 0.76].
19. Renewable Energy Situation in Ghana and Future Prospect, Journal of Clean Energy Technologies, 2018, vol. 6, pp. 284-288, 2018. [EI/ SCOPUS].
20. Investigating Water Poverty in sub-Sahara Africa: Addressing the Potentials for Water Resources Management, and Policy Implications. Int. Journal of Scientific Research ,2020, Vol. 6 pp. 57-64, [EI/ SCOPUS, Q2 IF 6.13].
21. A Case Study on Infection Prevention Protections among Nursing Trainees in Cape Coast Nursing and Midwifery Training College, GSJ: (2020) Vol. 8, Issue 10, ISSN 2320-9186

Third/ Co and Corresponding author

22. Predicting the carbon dioxide emission of China using a novel augmented hypo-variance brain storm optimization and the impulse response function, Environmental Technology, (2021) 42:27, 4342-4354, [SCI, Q2, IF=2.213]
23. Energy production and its emission generation impact on the environment, Current Science, 2021, Vol. 121, NO. 2. [SCI, Q3, IF= 0.76] .3& Corresponding author
24. Development of solar and bioenergy technology in Africa for green development—Addressing barriers and untapped potential, Energy Reports, (2021), Vol.7, Pp. 506-518, ISSN 2352-4847 [SCI, Q1 IF=6.870] & Corresponding author
25. Green Innovation Practices and Its Impacts on Environmental and Organizational Performance. Front. Psychol. (2021) Vol.11, 5536252020, [SSCIQ2, IF =2.067], (Co-Authored).
26. Comparison of various turbulence models applied to a twisted hydrofoil ASME Proceedings of the 10th Int. Symposium on Cavitation, 2018, ISBN: 9780791861851, pp. 1108.

ONGOING RESEARCH WORK (*Under review/ready for decision*)

27. Effects of Rotational Speed on the Performance Prediction of Pump as Turbine for Small Hydropower Generation, Science Progress accepted for publication in the next issue. [SCI Q1, IF=2.774]. 1& Corresponding author
28. Transient Pressure and Velocity Distribution Analyses in A Centrifugal Pump Operating as Turbine Complexity, **SCI, Q1, IF=2.83**. 2 & Corresponding author
29. Energy Generation and Carbon Dioxide Emission—the Role of Renewable Energy and Policies Journal of Cleaner Production, [**SSCI/SCI Q1, IF= 7.246**] **1 author**
30. Current Status and Future Prospects of Renewable Energy in Sub-Saharan Africa Int. Journal of Renewable Energy Development **ESCI/ EI, IF= 2.462** 1& Corresponding author
31. The State of Renewable Energy in China and the Way Forward in the New Scenario Policies Cleaner Production, [**SSCI/SCI Q1, IF= 7.246**], **2 & Corresponding author**

SERVE AS REVIEWER

- Prof. Daniel Adu is a *Certified SCIREA, Journal of Waste Management & Xenobiotic and Publons Academy Peer Reviewer*.
 - ◆ He is currently serving as a reviewer for many other top-academic journals, e.g.,
 - ◆ Journal of Energy and Environment
 - ◆ Earth & Environmental Science Research & Reviews
 - ◆ Journal of Cleaner Production
 - ◆ SAGE Open
 - ◆ Energy conservation and Environment and many more.

PROFESSIONAL MEMBERSHIP

- Member, National Society of Black Engineers (NSBE), (2020 - date)
- Member, African Scientists Directory, International Science Council, (2020 - date)
- Committee Member, Global Congress and Expo on Energy Eng. & Power Technology (2019- date)
- Editorial Member, Journal of Waste Management & Xenobiotic (2018 - date)
- Editorial Member, SCIREA Journal of Energy (2018 - date)
- Editorial Board member, Earth & Environmental Science Research & Reviews (2018-date)
- Committee Member, World Congress on Renewable and Non-Renewable Energy (2020-date)
- Committee Member, International Conference on Green Energy, Environment and Sustainable Development (GEEESD), (2020-date)
- Committee Member, 6th International Conference on Renewable & Non-Renewable Energy (2020-date)
- PRO, National Association of Science Teachers, Ghana (2012-2014)
- Member, National Association of Science Teachers, Ghana (GAST), (2010 - 2018)
- Circuit Coordinator, Ghana Association of Teachers, (GNAT), Ghana (2009-2014)

ADDITIONAL CERTIFICATIONS

- 04 Months Course in Science practical's teaching
- 03 Months Course of Principles of Biology in High schools
- 03 Months Course in Computer Application
- 05 Weeks Course in project management and supervision
- 06 Months Course in school Management

COMPUTER EXPERTISE

- Well versed with Simulation, and analysis, SPSS, and other statistical packages
- Proficient in MS Office 19, Office 365 (*Word, PowerPoint, Spread Sheet*)
- Capable of using IN-PAGE application
- Well versed with Internet, Email & Android Applications

REFERENCES

Dr. Henry Asante Antwi

School of Management Science & Engineering Jiangsu
University Zhenjiang, China P.R.
Email: asanteantwi2@yahoo.com

Prof. Dr. Zhang Jinfeng (*Ph.D. Supervisor*)

Vice Dean, National Research Center of Pumps
Jiangsu University Zhenjiang, China P.R. China
Email: zhanjinfeng@ujs.edu.cn

Dr. Ransford Opoku Darko,

Senior Lecturer
Department of Agricultural Engineering,
University of Cape Coast Ghana,
Email: chiefrodark@yahoo.com
Mobile: +233244096604