

Mawuli K. Afenyo, Ph.D.

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ACADEMIC BACKGROUND

PhD in Engineering <i>Memorial University of Newfoundland, Canada</i> <i>Supervisors: Profs. Faisal Khan & Brian Veitch</i>	2014-2017
Master of Business Administration (MBA) <i>Bologna Business School-University of Bologna, Italy</i>	2012 – 2013
MSc. Engineering 2012 <i>Politecnico di Torino (Technical University of Turin), Italy</i> <i>Supervisors: Profs. Mari Chiara Zanetti & Chiara Deangeli</i>	2010-
Diploma in Project Management Institute of Commercial Management (ICM), UK <i>Major: Project Management</i>	2010 – 2010
BSc. Engineering <i>Kwame Nkrumah University of Science and Technology, Ghana</i>	2005 – 2009

COURSES TAUGHT

- Global Supply Chain Management
- Global Econ & Enter Management
- Project Management
- Cybersecurity Management
- Principles of Macro Economics
- Statistics
- Maritime Economics Theory and Applications
- Principles of Transportation Economics
- Oil and Gas Engineering
- Advanced Reliability, Safety and Risk Engineering
- Environmental management in the Energy Industry
- Reliability and Systems Safety Engineering

LANGUAGE

Fluent in English
Can read and speak some French and Italian.

GRANTS AND PARTNERSHIPS (Applicant/co-applicant/Collaborator)

- | | |
|--|------|
| ▪ Research Manitoba (Canada) Proof of concept grant (Collaborator) (Worth: CAD 100,000) | 2024 |
| ▪ Texas Comprehensive Research Grant (TCRF) (Worth: USD 27,000) | 2023 |
| ▪ GCRI SFP Texas A & M Global Cyber Research Institute Grant (Worth: USD 10,000) | 2023 |
| ▪ SHHRC Connection grant (Successful) (Worth: CAD 50,000) | 2021 |
| ▪ Health Canada Emergency funding on COVID-19- (Successful) (worth: CAD235, 000) | 2020 |
| ▪ Research Manitoba Proof of Concept grant (under review) (Worth: CAD 150000) | 2020 |
| ▪ Genome Canada GENICE II (Successful) (Worth: CAD 8 Million) | 2021 |

HIGHER EDUCATION PEADAGOGY COURSES TAKEN:

- Designing Learner-Centred and Equitable Courses: association of College and University Educators (ACUE)-2022
- Teaching Supports for Remote Learning and associated Courses, University of Manitoba, Canada 2020
- Teaching Skills Enhancement Program (TSEP), Memorial University of Newfoundland, Canada 2016

RESEARCH AND PUBLICATIONS

[Total citations as of January, 2024: Google Scholar = 839; h-index = 15; i10-index = 18]

REFERED PUBLICATIONS

- RP21.** Zhu, S., Ng, A.K.Y., Afenyo, M., Panahi, R., Bell, M.G.H. (2023). Socio-economic impacts of shipping along the Northwest Passage: The cost to locals. *Marine Policy*, 153, 105647 (IF:3.8)
- RP20.** Antwi-Agyakwa, K.T., Afenyo, M., Angnuureng D.B (2023). Know to Predict, Forecast to Warn: A Review of Flood Risk Prediction Tools. *Water*, 15, 427. <https://doi.org/10.3390/w15030427>.
- RP19.** Afenyo, M., Caesar, D. (2023). Maritime cybersecurity threats: Gaps and directions for future research. *Ocean and Coastal Management*. 236: 106493 (IF:4.33; ABS Grade 4; JCR: Q1)
- RP18.** Afenyo, M., Ng, A.K.Y., Jiang, C. (2022). A Bayesian-Loss Function (BLF) Hybrid model for assessing the Marine Liability Regime for Ship-Source Oil Spills in the Arctic. (*Risk Analysis: An International Journal*) (accepted) (IF:4; ABS Grade 4; JCR: Q1)
- RP17.** Adumene, S., Afenyo, M., Salehi, V., William, P., (2022). An adaptive model for human factor assessment in maritime operations. *International Journal of Industrial Ergonomics*.89: 103293. <https://doi.org/10.1016/j.ergon.2022.103293> (IF: 2.656)
- RP16.** Panahi, R., Afenyo, M., Ng, A.K. Y.(2022). Developing a Resilience Index for Safer and More Resilient Arctic Shipping. *Maritime Policy & Management. Online* <https://doi.org/10.1080/03088839.2022.2061059> (IF: 3.778)
- RP15.** Adumene, S., Okwu, M., Yazdi, M., Afenyo, M., Islam, R., Charles Ugochukwu Orji, C.U., Obeng, F., Goerlandt, F., (2021) Dynamic logistics disruption risk model for offshore supply vessel operations in Arctic waters. *Maritime Transport Research*, 2:100039
- RP14.** Ceasar, L. D., Lewis, J., Afenyo, M., Brho, M., (2021). Global maritime piracy: Impact on seafaring and the factors shaping confrontational outcomes. *Journal of Transportation Security*
- RP13.** Afenyo, M., Ng, A.K.Y., Jiang, C. (2021): A Multi-Period Model for Assessing the Socio-Economic Impact of Oil Spills in the Arctic. *Risk Analysis: An international Journal*. 42(3):614-633 (IF:4; ABS Grade 4; JCR: Q1)
- RP12.** Panahi, R., Ng, A.K. Y., Afenyo, M., Lau, Y.Y.J (2020): Reflecting on Forty Years Contextual Evolution of Arctic Port Research: The past and now. *Transportation Research Part A: Policy and Practice*, 144:189-203 (IF: 3.992; JCR: Q1)
- RP11.** Panahi, R., Afenyo, M., Ng, A.K. Y., Haeri, F. (2020). A Novel Approach in Probabilistic Quantification of Risks within the Context of Maritime Supply Chain: The Case of Extreme Weather Events in the Arctic. *Accident Analysis & Prevention*, 144: 105673 (IF: 3.655; JCR: Q1)
- RP10.** Helle,I., Mäkinen,J., Nevalainen,M., Afenyo,M., Vanhatalo,J., 2020. Impacts of oil spills on Arctic marine ecosystems: A quantitative and probabilistic risk assessment perspective. *Environmental Science & Technology* 54 (4), 2112-2121 (IF: 7.864; JCR: Q1)
- RP9.** Afenyo,M., Khan,F., Veitch,B., Ng,A.K.Y., Sajid,Z., Fahd,F. 2019. An explorative object-oriented Bayesian network model for oil spill response in the Arctic Ocean. *Safety in Extreme Environments*. pp 1-12
- RP8.** Ducruet, C., Panahi, R., Ng, A.K.Y., Jiang, C., Afenyo, M., 2019. Between Geography and transportation: A Scientometric analysis of port studies. *Journal of Transport Geography*. 81:102527. (IF: 3.834; JCR: Q1)
- RP7.** Afenyo, M., Ng, A.K.Y., and Jiang, C., 2019. Climate change and Arctic shipping: A method for assessing the impacts of oil spills in the Arctic. *Transportation Research Part D*. 77:476-490 (IF: 3.834; JCR: Q1)
- RP6.** Ng, A.K.Y., Zhang, H., Afenyo, M., Becker, A., Cahoon, S., Chen, S.L., Esteben, M., Ferrari, 4 C., Lau, Y.Y., Lee, P.T.W., Monios, J., Tei, A., Yang, Z. and Acciaro, M. 2018. 'Port 5 decision-maker perceptions on the effectiveness of climate adaptation actions. *Coastal Management* (doi: 10.1080/08920753.2018.1451731). (IF: 1.57)
- RP5.** Afenyo, M., Khan, F. Veitch, B., and Yang, M., 2017. Arctic shipping accident scenario analysis using Bayesian Network approach. *Ocean Engineering*. 133:224-230 (IF: 3.250)
- RP4.** Afenyo, M., Khan, F. Veitch, B., and Yang, M., 2017. A probabilistic ecological risk model for Arctic marine oil spills. *Journal of Environmental Chemical Engineering*. 5(2):1494-1503 (IF: 4.020)
- RP3.** Afenyo, M., Khan, F. Veitch, B., and Yang, M., 2016. Dynamic fugacity model for accidental oil release during Arctic shipping. *Marine Pollution Bulletin*. 111(1-2):347-353 (IF: 3.750)
- RP2.** Afenyo, M., Khan, F. Veitch, B., and Yang, M., 2016. Modelling oil weathering and transport in sea ice. *Marine Pollution Bulletin*. 107(1):206-215 (IF: 3.750).
- RP 1.** Afenyo, M., Khan, F., Veitch, B., 2015. A state-of-the-art review of fate and transport of oil spills in open and ice-covered water. *Ocean Engineering*. 119:233-248 (IF: 3.250).

BOOK

BP1. Afenyo, M., Ng, A.K.Y., Naima, S (2022). The Management and Development of Safe and Sustainable Arctic Shipping. Elsevier (Authored book) (Forthcoming). Link:<https://shop.elsevier.com/books/safe-and-sustainable-arctic-shipping-management-and-development/afenyo/978-0-443-18849-7>

SELECTED CONFERENCE PROCEEDINGS

CP13. Danial, S. N., Mawuli, A., Ng, A. K. Y., and Stern, G. (2023). *On the Development of a Bayesian Network-based Technology for Oil Spill Impact Assessment in the Arctic*. Presented at the 45th AMOP Technical Seminar on Environmental Contamination and Response, June 6-8, 2023, Edmonton, AB, Canada. <https://www.canada.ca/en/environment-climate-change/services/science-technology/arctic-marine-oilspill-program.html>

CP12. Copley, S., **Afenyo, M.,** Caesar, L. D., (2023). An Environmental and Economic Impact Assessment of Potential Spills in the Galveston Bay Area. Southeast Decision Science Institute (SEDSI) 2023 Annual Conference, February 15 – 17, Wilmington, NC.

CP11. Afenyo, M., Caesar, L. D., Yeboah, D.O., Antwi-Agyakwa, K.T. Adzraku, F. (2022). Regional analysis of oil seaborne trades: A focus on Africa. *International Association of Maritime Economist (IAME)*, Busan, South Korea. September 14-16.

CP10. Afenyo, M., Ng, A.K. Y., Caesar, L. D. (2022). Maritime threats: Gaps and directions for future research. 1st Conference on Maritime Cybersecurity. Cyber and Innovation Policy Institute. US Naval War College. Newport, Rhode Island. 12th-14th June, 2022.

CP9. Afenyo, M., Hong, L., Ng, A.K. Y., Jiang, C. (2021). An integrated insurance underwriting tool for Arctic shipping. *International Association of Maritime Economist (IAME)*, Rotterdam.

CP8. Zhu, S, **Afenyo, M.,** Roozbeh P., Ng, A.K. Y., Bell, M.G.H (2020). Socio-economic impacts of shipping along the Northwest Passage: The cost to locals. *International Association of Maritime Economist (IAME)*, Hong Kong.

CP7. Panahi, R., **Afenyo, M.,** Ng, A.K. Y., Haeri, F. (2020). Quantification of Extreme Weather Events Risks for Arctic Supply Chain Using Bayesian Belief Network. *International Association of Maritime Economist (IAME)*, Hong Kong.

CP6. Afenyo, M., Ng, A.K.Y., and Jiang, C., 2018. A method for assessing the socio-economic impact of oil spills generated by Arctic shipping. *International Association of Maritime Economist (IAME) 2019 Conference, Athens, Greece*.

CP5. Afenyo, M., Khan, F. Veitch, B., and Ng, A.K.Y., Khan, F. 2018. An Object-Oriented Bayesian Network (OOBN) for Oil Spill Management, *4th Workshop and Symposium on Safety and Integrity Management* (paper selected for publication in the journal of *Safety in Extreme Environments: People, Risk and Security*).

CP4. Dudley, E.B., **Afenyo, M.,** Veitch, B., Khan, F. 2019. Experimental observations of oil encapsulation and migration in ice. *42nd AMOP Conference, Halifax, Canada*.

CP3. Helle, I., Mäkinen, J., Nevalainen, M., **Afenyo, M.,** Vanhatalo, J. 2019. Marine oil spills in the Arctic: quantitative oil spill risk assessment with limited data and high uncertainties. *SETAC Meeting 29th Annual Meeting, Helsinki, Finland*.

CP2. Afenyo, M., Khan, F., Veitch, B. and Yang, M. 2016 (October 24-26). An exploratory review of weathering and transport modelling of accidental oil releases in Arctic waters. *Arctic Technology Conference, St. John's*.

CP1. Afenyo, M., Khan, F., Veitch, B. and Yang, M. 2017 (October 3-5). A risk-based tool to evaluate oil spill prevention and mitigative measures. *40th AMOP Conference, Calgary*.

BOOK CHAPTERS

BC4. Afenyo, M., Hubert, C.R.J., Bhatnagar, S., Jiang, C. (2022). Informing marine shipping insurance premiums in the Arctic using marine microbial genomics. In Lopez-Correa. *Genomics and the Global Bioeconomy*, Elsevier (Accepted for inclusion in book) <https://www.sciencedirect.com/science/article/pii/B9780323916011000067>

BC3. Afenyo, M., Khan, F. and Ng, A.K.Y. (2020): 'Assessing the risk of potential oil spills in the Arctic due to shipping'. In: Ng, A.K.Y., Monios, J. and Jiang, C. (Eds.): *Maritime Transport and Regional Sustainability*. Elsevier, Cambridge, MA, Chapter 11.

BC2. Afenyo, M., Lin, Y. and Ng, A.K.Y., Jiang, C. (2020): 'The opportunities and challenges of developing the Arctic area and shipping in the Arctic'. In: Lasserre, F., and Faury, O. (Eds.): *Arctic shipping: Climate change, commercial traffic and port development*. Elsevier, Cambridge, MA, Chapter 12.

BC 1. Lin, Y., **Afenyo, M.** and Ng, A.K.Y. (2020): 'Climate change, a double-edged sword: The case of Churchill on the north west passage'. In: Ng, A.K.Y., Monios, J. and Jiang, C. (Eds.): *Maritime Transport and Regional Sustainability*. Elsevier, Cambridge, MA, Chapter 13.

PROFESSIONAL PUBLICATIONS

PP1. Ng, A.K.Y., Roozbeh, P. **Afenyo, M.** (Sept. 2019) Key factors for successful climate adaptation & resilience. Environment Health and Safety. *Port Technology*. <https://www.porttechnology.org/technical-papers/key-factors-for-successful-climate-adaptation-resilience/>

PP2. Adzraku, M., **Afenyo, M.** (June 2020). Dealing with e-wastes in Ghana. The role of the ports. *The Maritime Economist*.

<https://www.me-mag.org/infocus>

PP3. Panahi, R., Ng, A.K. Y., Haeri, F., **Afenyo**, M., (2020). Arctic shipping-growth amid uncertainty. *Seaways*.

PROFESSIONAL TECHNICAL REPORTS

PTR 1. CBI Shipping Criteria: The shipping criteria for the climate bond standard and certification scheme, April 2022 Assessed at:

<https://www.climatebonds.net/files/files/standards/Waterborne%20Transport%20%28Shipping%29/CBI%20Certification%20-%20Shipping%20Criteria%20V1b%2020211215.pdf>

(Served as adaptation & resilience expert)

SELECTED PROFESSIONAL EXPERIENCE

PROFESSIONAL EXPERIENCE

Assistant Professor, (Tenure Track) 2021- Present

Texas A & M University, USA

- Develops and teaches courses
- Conducts research and develops new curriculum.
- Supervises undergraduate and graduate students' research work.
- Write proposals for grants and serves on committees.
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Researcher & Instructor,

Dec. 2017 – Sept. 2021

University of Manitoba

Winnipeg, MB

- Develops and teaches courses at the university.
- Conducts research on the project: GENICE: Microbial Genomics for oil spill Preparedness in Canada's Arctic Marine Environment.
- Conducts research on the project: Climate Change and Adaptation Planning for Ports.
- Served as technical expert on developing criteria for issuing green bonds for Climate Bond Initiative (CBI)
- Supervises graduate students' thesis work.
- Write proposals for grants and provide administrative support.
- Organised first Climate Change and Adaptation Planning for Ports and the Arctic (CCAPPTIA) conference

Project Manager & Research Associate

Memorial University of Newfoundland, Canada

May 2017- Dec., 2017

- Worked closely with the Principal Investigators (PI), to direct research and development efforts for the project.
- Designed experimental procedures and protocols, maintained accurate records of experiments.
- Carried out an environmental risk assessment of potential oil spills during Arctic shipping.
- Developed fate and transport models to predict the behaviour of oil in ice.
- Carried out research, wrote and published scientific articles.
- Involved in the organisation of seminars for the Lloyd Register Foundation project on Arctic shipping.
- Supervised undergraduate and graduate students.

Visiting Researcher

University of Helsinki, Finland

May 2016-Jul. 2016

- Collaborated with researchers in the FEM group to apply models to assess environmental risk of oil spill in the Kara Sea.
- Facilitated the organisation of a seminar on the International Maritime Organisation's Polar code.

Visiting Researcher

Dalhousie University, Canada

Dec. 2015-Dec. 2015

- Collaborated with researchers in Dr. Haibu's group to explore ways of incorporating biodegradation and encapsulation of oil in ice-covered waters for current oil spill models.
- Learnt to use multiple oil spill modeling software (e.g. Oil Spill Contingency and Response Software (OSCAR) and MOHID)

Teaching and Research Assistant*Memorial University of Newfoundland, Canada*

Jan. 2015-April., 2017

- Assisted instructors supervise final year Oil and Gas Engineering Project.
- Held weekly meetings to assess progress of individual projects.
- Evaluated presentations at the beginning, middle and end of project.
- Gave feedback on progress of projects and presentations.
- Corrected student assignments for Advanced Safety, risk and reliability engineering.
- Invigilated Drilling Engineering, fluid mechanics, and structural engineering examinations.

Junior Project Manager

Sept 2013- Dec.2013

Dismeco Srl, Italy

- Assisted in the commercial department in sales and negotiations with clients.
- Supported company with sustainability policies enactment.
- Monitored plant production and the photovoltaic cells data.
- Collected data on the performance of recycling plant.
- Collected data on performance of workers.
- Collected data on the input and output of materials to be recycled.
- Analyzed critical points in process to be improved in terms of time and efficiency.
- Liaised with commercial and technical department to advice on reducing waste and cost in the processes of the company.
- Monitored the progress of the Eco light project of the EU.

Market Analyst for Launching Commercial Production of Products

Jan. 2013- Jun.2013

KiteGen, Italy

- Worked as a team member that performed a National Market analysis for new products.
- Worked as a team member that performed an Energy Market Analysis
- Worked on the processes of obtaining permit to enter the targeted markets.

Teaching and Research Assistant

Aug. 2009- Oct.2010

Kwame Nkrumah University of Science and Technology, Ghana

- Taught “Introduction to Environmental Science, Water and Wastewater Engineering” and “Environmental Quality Engineering”.
- Assisted with research in the civil engineering department specifically environmental quality engineering.
- Organized tutorials for undergraduate students in environmental quality engineering
- Performed administrative tasks in the dean’s office (Faculty of Civil and Geomatic Engineering)
- Assisted final year undergraduate students with their project works in environmental quality engineering.
- Organized meetings between the dean and the students in the faculty.

Engineering Project Manager

Jan. 2010- Jun.2010

Consulting Services for Ghana Cement Factory, Ghana

- Was involved in the reconnaissance survey.
- Did the flow measurement for the design of a comprehensive system for the wastewater treatment.
- Designed the system for the wastewater treatment.
- Did the drawings for the system designed.
- Performed environmental risk assessment for the cement plant.

Engineering Project Manager

July. 2008- March.2009

Ketu Municipal Assembly and Krachi-West District Assembly, Ghana

- Served as procurement aid to identify best bidders for civil works in municipality and district.
- Supervise ongoing civil works in municipality and district.
- Supervise contractors on behalf of government for the execution of major civil works
- Follow up with bidders and also ensuring payment are made on time.

CONFERENCE ORGANISATION

1st & 2nd Conference on Climate Change Adaptation Planning for Ports, Transportation Infrastructure and the Arctic, Winnipeg, MB- Main Coordinator Link: https://005ab085-f83f-40ce-b679-65860c00a53b.filesusr.com/ugd/d186f1_e6e158a1d03f40e68dee51c64198fca6.pdf Link: <https://www.ccapptia.com/21conference>

CONSULTING SERVICES

- **Bureau of Safety and Environmental Enforcement (BSEE), 2023**
- **Fair Ventures, 2019, Canada**-Providing services for the calculation of greenhouse emission for transporting grains from Churchill to Europe
- **Climate Bond Initiative, 2018-, UK**-Resilience Expert for Climate Bond Initiative working group
Link: <https://www.climatebonds.net/shipping>

SELECTED HONORS AND AWARDS

- KLU Young Researcher Best Paper Award 2019
- Outstanding award for graduate studies (Fellow School of Graduate Studies), Memorial University of Newfoundland, Canada. 2017
- Hult Prize (*Largest Social Entrepreneurship competition in the world for Business Schools*), Semi Finalist team, Dubai University of Bologna 2013

SELECTED SERVICES

Texas A & M University

- Judge for Texas Science and Engineering Fair, 2023-Present
- Research Advisory Committee Member, Texas A & M University, 2023-Present
- Admission Committee member for MARA, Texas A & M University, 2023--Present
- Graduate Curriculum Committee member, MARA Department, Texas A& M University, 2023--Present
- Member search committee for Department Head of Maritime Transportation, Texas A & M University, 2023
- Member search committee Department Head of Maritime Business Administration, Texas A & M University, 2023—Present
- Library Committee Member, Texas A & M University, 2022--Present

International Association of Maritime Economist (IAME)

- Treasurer, Webmaster, and council member 2021- Present
 - Co-editor official magazine of IAME 2020-Present

CCAPPTIA

- Editorial manager of Newsletter 2018-Present

SCIENTIFIC EXPEDITIONS

- Scientist in the 3rd leg of the 2019 Amundsen Ice-breaker Expedition -organised by Amundsen Science and the Canadian Coast Guard

SELECTED MEMBERSHIP OF PROFESSIONAL ORGANISATIONS

- International Association of Maritime Economists (IAME)
- Transportation Research Board (TRB).

SELECTED MEDIA APPEARANCES

1. Researchers win award for new way to assess impact of Arctic oil spills

Link: <http://genomealberta.ca/genomics/listen-assessing-the-impact-of-oil-spills-in-the-arctic.aspx>

2. Assessing and minimising risk: Oil spills and shipping

Link: http://www.andrewsafer.com/articles/2016-03_assessing_minimising_risk_oil_spills_shipping.pdf

3. Clean, Safe Arctic Seas

Link: <https://www.marinelog.com/tag/arctic/>

4. **Oil spill in Canadian Arctic could be devastating for environment and indigenous peoples, study finds.**

Link: <https://e360.yale.edu/digest/with-growth-of-arctic-shipping-canada-must-prepare-for-devastating-oil-spills-research-shows>

SELECTED REVIEWER ACTIVITIES

Still involved in the following activities till date

- Computers and Security 2024
- Nature's Communications Earth & Environment 2024
- External Reviewer for Canada's Tri-Agency Interdisciplinary-NSERC Discovery Horizon Grant 2021
- External Reviewer for the intermediate report from the Centre of Excellence for Scenario-based Risk Management in Polar Waters (CEPOLAR) on *recommended practice for scenario-based risk management for Arctic waters* 2021
- Case Studies on Transport Policy 2021
- Guest Editor for special Issue in *Sustainability* 2020
- Safety Science 2020
- Transportation Research Part D 2020
- Transportation Research part E 2020
- International Association of Maritime Economics Conference, 2020
- Journal of Integrated Environmental Assessment and Management 2019
- The Asian Journal of Shipping and Logistics 2019
- 7th Conference on Emerging Energy and Process Technology 2018
- European Journal of International Management 2018

COMPUTER AND SOFTWARE PROFICIENCY

Petroleum Engineering: ECLIPSE, PETREL, INTERPRETE, RUBIS, SAPHIRE

Chemical Engineering: ASPEN PLUS and HYSIS

Environmental Engineering: RISC WORKBENCH, CFD ANSYS, OSCAR, MOHID

Programming Language: Python, Matlab, VISUAL BASIC

OS/ Applications: WINDOWS, LINUX/MS OFFICE SUITE (including MS PROJECT and MS VISIO)

Statistical Analysis: SPSS, @Risk, Genie 2.0, Hugin 8.0

VOLUNTEER EXPERIENCE

Official Magazine of the International Association of Maritime Economist (IAME)

January 2020-

- Co-editor: Performing editorial works on submitted articles and preparing them for publication

CCAPTIA (International Forum on Climate Change Adaptation Planning for Port, Transportation Infrastructure and the Arctic)

January 2018-

- Founding member of www.ccapptia.com and Editorial manager of Newsletter

Life boat simulator research study –Virtual Marine Technology (VMT) Jan.2016- Dec. 2018

- Participated in the program to test the simulator

International Student Advising (ISA) –Registration facilitator

Aug.2015- Sept. 2015

- Served as representative of ISA to welcome new students.
- Actively involved in registration and advising new students
- Answering questions on academics, housing, MCP, banking and food

Memorial University Student Mentor

Aug.2015- Aug. 2017

- Actively involved in helping new students get a connection to St. John's and especially MUN.
- Help Mentee to settle in St. John's and make their stay a pleasant one.
- Answering questions which will help mentee get around the campus.
- Directing mentee to the right institutions to get tasks done.

Radio Panel

Jan. 2015- April.2015

Refugee Advisory Council (RIAC)

- Actively involved in producing a series of programs for RIAC on settling in St. John's for newcomers especially international students.

Mathematics Teacher

Jun 2006- Sept.2006

Kete-Krachi Senior High School

- Actively involved in the teaching of mathematics
- Undertook lesson planning and setting a good classroom environment

SCIENTIFIC EXPEDITIONS

- Scientist in the 3rd leg of the 2019 Amundsen Ice-breaker Expedition -organised by Amundsen Science and the Canadian Coast Guard

MEMBERSHIP OF PROFESSIONAL ORGANISATIONS

- International Association of Maritime Economists (IAME)
- Engineers & Geoscientists Manitoba (**EGM**) No: 45763
- Professional Engineers and Geoscientist Newfoundland (**PEGNL**) No: G4273
- American Association of Petroleum Geologists (**AAPG**) No: 10065068
- Society of Petroleum Engineers (**SPE**) No: 3541065
- American Society of Civil Engineers (**ASCE**) No: 450732

TRAINING AND CERTIFICATIONS

- Teaching Supports for Remote Learning Courses, University of Manitoba
- Teaching Skills Enhancement Program (**TSEP**), Memorial University of Newfoundland
- Workplace Hazardous Materials Information System (**WHMIS**)
- Certificate in Crises Management, German Federal Office for Civil Protection and Disaster assistance (**BBK**)