Janet Shufor Bih Epse Fofang

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EDUCATION:

The University of Maryland, College Park, MD

Doctor of Philosophy in Education 2024

Department: Teaching Learning, Policy, and Leadership

Specialization: Technology Learning and Leadership

Advisor: Dr. David Weintrop

Thesis: Computational Thinking in Early Grade Classrooms: How Young Learners Interact with Physical Devices to Ground Their Understanding of Computational Thinking

University of Douala, Cameroon

M.ED in Electrical Engineering, University of Douala, Cameroon 2005

B. ED in Electrical Engineering, University of Douala, Cameroon 1998

SCHOLARLY PUBLICATIONS:

Peer-Reviewed Journal Articles:

Weintrop, D., Walkoe, J., Walton, M., **Bih, J.,** Moon, P., Elby, A., Bennett, B., & Kantzer, M. (2022). Sphero.Math. *Computational Thinking in PreK-5*, 39–46. https://doi.org/10.1145/3507951.3519286

Hamouda, S., Tshukudu, E., Marshall, L., Aruleba, K., Kombe, C., **Bih Fofang, J. S.**, Bada, J. K., Ekwam, E. O., Timm, N., & Mengistu, T. (2025). *Expanding contextualized computer science education in Africa: A collaborative initiative*. In *Proceedings of the ACM Global on Computing Education Conference 2025 (Vol. 2, pp. 376–378)*. Association for Computing Machinery. https://doi.org/10.1145/3736251.3749528

Peer-Reviewed Conference Proceedings:

Fofang, J. B., & Weintrop, D. (2025). Leveraging Symbolic Representations to Understand Young Learners' Interactions with Computational Thinking Concepts. In *Proceedings of the 19th International Conference of the Learning Sciences-ICLS 2025, pp. 467-475*. International Society of the Learning Sciences.

Fofang, J. B. (2025). *Using Embodiment to Reason About Geometry in an Integrated Computational Thinking and Mathematics Activity*. 583–591.

Monteith, Barnas G, Liu, Zifeng, Chao, Jie, Wiedemann, Kenia, **Fofang, Janet B.,** Li, Linlin, Ma, Dexiu, Mohamed, Rabab, Mondol, Anupom, Jo, Yelee, Fleetwood, April, Lipien, Lodi, Zhang, Yuanlin, & Xing, Wanli. *Analyzing High School Students' Engagement in Online Data Science Learning through Entropy Analysis*. Retrieved from https://par.nsf.gov/biblio/10587321.

Mohamed, Rabab, Mondol, Anupom, Ma, Dexiu, Chao, Jie, Wiedemann, Kenia, **Fofang, Janet_Bih,** Monteith, Barnas, Xing, Wanli, Li, Linlin, Jo, Yelee, Fleetwood, April, Lipien, Lodi, & Zhang, Yuanlin. *How students learn functions in an integrated introductory data science module*. Retrieved from https://par.nsf.gov/biblio/10598213.

Jensen, T., Theofanos, M., Greene, K., Williams, O., Goad, K., & **Bih Fofang, J**. (2024). *Reflection of its Creators: Qualitative Analysis of General Public and Expert Perceptions of Artificial Intelligence. Aies*, 647–658.

Fofang, J. B., Weintrop, D., Moon, P., & Elby, A. (2021). Thinking through Representation: Interpreting Representational Fluency across Contexts in Computational Thinking Enhanced Activities. *ICLS 2021 Proceedings*, 979–980.

Coenraad, M., **Fofang, B. J.,** & Weintrop, D. (2021). Gusanos y Espheros: Computing with Youth in Rural El Salvador. *SIGCSE 2021 - Proceedings of the 52nd ACM Technical Symposium on Computer Science Education*, 404–410. https://doi.org/10.1145/3408877.3432535

Fofang, J., Weintrop, D., Walton, M., Elby, A., & Walkoe, J. (2020). Mutually supportive mathematics and

computational thinking in a fourth-grade classroom. *Computer-Supported Collaborative Learning Conference, CSCL*, *3*(2006), 1389–1396.

Shokeen, E., Katirci, N., **Bih Fofang, J.,** Simpson, A., & Williams-Pierce, C. (2020). Unpacking mathematical play within maker spaces using embodied cognition. *CHI PLAY 2020 - Extended Abstracts of the 2020 Annual Symposium on Computer-Human Interaction in Play*, 365–369. https://doi.org/10.1145/3383668.3419909

Fofang, J., Pauw, D., Clegg, T., & Weintrop, D. (2020). Building for Robots: An Alternative Approach of Combining Construction and Robotics. *Proceedings of Constructionism 2020 Conference*, 177–187.

Walton, M., Walkoe, J., Elby, A., **Fofang, J**., & Weintrop, D. (2020). Teachers' conceptualizations of computational and mathematical thinking. *Computer-Supported Collaborative Learning Conference, CSCL*, *4*, 2053–2060.

Fofang, J. B., Weintrop, D., Moon, P., & Williams-pierce, C. (2019). *Computational Bodies: Grounding Computational Thinking Practices in Embodied Gesture*. 171–178.

Chklovski, T., Jung, R**., Fofang, J. B.,** & Gonzales, P. (2019). Implementing a 15-week AI education program with under-resourced families across 13 global communities. *International Joint Conference on Artificial Intelligence*. https://www.curiositymachine.org/aichallenge

Manuscripts Under Review

Janet Bih Fofang David Weintrop, Gautam Aakash: From Computational Thinking to AI Literacy: Representations in Robotics-Mediated Mathematics Classrooms.

Sharma Paras, Yueping Sha, **Janet Bih Fofang**, Yan Brayden, Hubert Asare, Jess Turner, Angela Stewart, Erin Walker (CHI 2026). Hybrid LLM-Embedded Dialogue Agents for Learner Reflection: Designing Responsive and Theory-Driven Interactions.

Manuscripts in Preparation

Janet Bih Fofang, Sera Linardi (2026): Student-Led Participatory Design.

Janet Bih Fofang: Paras Sharma, Yueping Sha, Angela Stewart, /Erin Walker (2026). Cognitive Engagement in Multimodal Co-Creative Activities: From Qualitative to Quantitative Assessment in open-ended learning.

Janet Bih Fofang: Sharma Paras 2026: Theoretical Understanding of AI's Role in Education: A Systematic Review

Janet Bih Fofang, Sharma Paras, Angela Stewart, Erin Walker (2026). Toward a Dialogic Future for Child-AI Interaction.

CONFERENCE & WORKSHOP PRESENTATIONS:

Academic Presentations:

Fofang., J. B., Sera Linardi (2025) Student-led participatory Design framework, Poster presentation at EAAMO 2025

Janet Bih Fofang, Paras Sharma, Yueping Sha, Angela Stewart, /Erin Walker (2025). Mapping Co-Creative Knowledge Development in Human-Robot Interaction through the ICAP Framework, NCME_AIME Conference

Fofang, J., Deborah Kariuki (2025). Using Data Science to Teach Delicate and Contentious Topics in K-12 Classrooms DSE-K12 Conference, San Antonio, Texas.

Fofang, J. B., Weintrop, D.,(2024). The interconnectedness of Representations in Computational Thinking Enhanced Robotics Tasks. Paper presented at AERA.

Fofang, J. B., Weintrop, D., (2023). Computational Thinking (CT) in Robotics Environments: Supporting Computation and Creativity in CT Enhanced Contexts. Round table presentation at AERA.

Fofang, J. B., Weintrop, D., Moon, P., & Elby, A. (2021). Thinking through Representation: Interpreting Representational Fluency across Contexts in Computational Thinking Enhanced Activities. *ICLS 2021 Proceedings*, 979–980. Poster presented at the University of Maryland's 38th Annual HCIL Symposium. Virtual.

Fofang, J. B., Weintrop, D., Moon, P., & Williams-pierce, C. (2019). *Computational Bodies: Grounding*

Computational Thinking Practices in Embodied Gesture. 171–178. Roundtable presentation at AERA 2021. Virtual.

Fofang, J., Weintrop, D., Walton, M., Elby, A., & Walkoe, J. (2020). Mutually supportive mathematics and computational thinking in a fourth-grade classroom. *Computer-Supported Collaborative LearningConference, CSCL*, *3*(2006), 1389–1396. Paper presented at the University of Maryland's 37th Annual HCIL Symposium. Virtual.

Fofang, J., Pauw, D., Clegg, T., & Weintrop, D. (2020). Building for Robots: An Alternative Approach of Combining Construction and Robotics. *Proceedings of Constructionism 2020 Conference*, 177–187. Paper presented at the Fablearn 2020 conference in New York.

Non-Academic Speaker/Presentation Experience:

- Speaker at the Women in STEM conference in Dubai www.womeninstem.com February 2014
- Speaker on a Panel at the HIMMS Conference in Washington DC on the topic: Empowering Women through Digital Literacy http://www.himss.org/ November 2015
- Speaker at the Digital Reunion NxSE conference at La Reunion Island. November 2016
- Speaker at the Cameroon Digital conference, www.cameroundigital.com. May 2017
- Moderator of a Startup Panel organized by the European Investment Bank December 2017
- Presenter at the Global Entrepreneurship Summit, Hyderabad India 2017
- Moderated several panels at the US Embassy in Cameroon on Women, Technology, and Entrepreneurship.
- Speaker at European Development Days EDD June 2018
- A prominent keynote speaker in most Women and Girls in STEM Conferences in Cameroon.
- Speaker/panelist at a High-Level summit organized by the Lisbon Council and the World Bank on "Development in the Digital Age" with Vice President of the European Commission and Chief July 2018

RESEARCH EXPERIENCE:

University of Pittsburgh January 2025

Postdoctoral Associate, Learning Research and Development Center (LRDC), University of Pittsburgh

For Drs. Erin Walker, Sera Linardi, and Angela Stewart

- Learning Sciences, Human-Centered AI, Learning Analytics, and Cognitive Engagement Translational Education Scientist, Research Scientist, STEM Education, Curriculum Designer.
- Designed and led research and evaluation efforts across two funded projects, coordinating multidisciplinary teams including study design, data collection, analysis, and dissemination.
- Led learning sciences and data collection activities for an NSF-funded Advancing Informal STEM Learning (AISL) project investigating co-creative robotics as an open-ended learning and training environment for culturally responsive computing education.
- Designed and evaluated training and simulation protocols that support learner-technology co-creation, focusing on how participants engage in iterative design, debugging, dialogue, and reflection during robotics-based activities.
- Developing a cognitive engagement assessment framework grounded in learning sciences theory to measure cognitive engagement in multimodal, open-ended learning contexts.
- Conducted multimodal learning analytics data analysis by integrating qualitative coding with quantitative methods to model fine-grained engagement and learning trajectories.
- Translated research findings into practice by aligning analytic results with design recommendations for educators, program designers, and technology developers, supporting the transition from prototype systems to deployable learning interventions.
- Validated AI and data-enabled learning tools by linking learner interaction patterns to theoretically grounded indicators of engagement and learning, ensuring interpretability and construct validity of analytic inferences.
- Authored and co-authored peer-reviewed publications and manuscripts in progress, contributing methodological advances in qual-to-quant assessment, multimodal analytics, and process-oriented evaluation of open-ended learning.
- Led an LRDC-funded experiential learning and data literacy project that combined qualitative methods instruction, community-based fieldwork, and role-based data engagement to support undergraduate students' critical data literacy and civic advocacy.

- Designed and delivered a role-based data literacy training module for undergraduate and graduate students, integrating experiential learning, community engagement, and public data analysis through the 412Connect and LearnDataAdvocacy platforms.
- Served as guest instructor for PIA 700, teaching qualitative and interpretive methods for data analysis, including observation, inference-making, identification of missing data, and contextual reasoning using public datasets.
- Developed instructional materials and structured learning activities that guided students through three complementary data-engagement roles: Data Detective, Data Journalist, and Data Artist, to scaffold critical data literacy and advocacy-oriented communication.
- Facilitated experiential and discussion-based learning sessions, supporting students in connecting classroom instruction with community fieldwork and lived experiences to critically examine bias, representational gaps, and inequities in public data systems.
- Mentored students in translating data insights into narratives and visual artifacts, emphasizing audience, ethical communication, and community impact in data-driven advocacy.
- Designed and implemented formative assessment strategies, including reflective prompts, worksheets, group discussions, and student-produced artifacts, to support learning, feedback, and instructional refinement.
- Iteratively refined the training curriculum based on student reflections and classroom evidence, introducing improvements such as extended engagement time, cross-group critique, and opportunities to revisit interpretations after field experiences.

Texas Tech University June - December 2024

Postdoctoral Associate for Dr. Yualin Zhang

- Research on Knowledge Representation and Reasoning with the Knowledge Representation and Reasoning (KRR) lab. Using a logic-based approach to design curricula that integrate foundational concepts in mathematics, statistics, and computer science to teach data science to middle and high school rural students.

The University of Maryland, College Park, MD

Research Assistant for David Weintrop August 2018 - 2024

- Research on how Sphero robots can support Computational Thinking for Early grade learners https://sites.google.com/umd.edu/sphero-math/about Sphero.Math project
- Research on Including Neurodiversity in Foundational and Applied Computational Thinking (INFACT) Project.
- Research on Generative AI in INST 126 - Google & TLTC Project

Teaching Assistant for David Weintrop

- Facilitated 3 computer science Computational Thinking professional development workshops with 80 DCPS elementary mathematics teachers

Research with the National Institute for Standards and Technology (NIST) with Kristen Greene

January 2023 – December 2023

- Research with the Information Technology Laboratory (ITL), Visualization and Usability Group, investigating users' perceptions of AI.

Research with Science Everywhere project with Tamara Clegg Spring – Summer 2020

- Worked on a five-week summer program called The Summer Slide Prevention Program to support 42 elementary, middle, and high-school school youth and 31 adults who participated in the program. Using Sphero robots, I led three-hour STEM learning activities three times per week focused on computational thinking, capillary action, and a community rain garden project.

Research with YXlab and Mathplay lab with Caro Williams Pierce Spring 2020 - 2024

- Research on Mathematical Play within Makerspaces

I-consultancy project for INST 710 and Anti-Fragility Health Spring 2023

- Co-mentored students in INST 710 to design journey maps and other AI-powered visual models to help customers with acute or chronic health disorders investigate the causes/reverse their underlying clinical imbalances. This project was initiated as part of an I-consultancy initiative I developed, which facilitated a collaboration between the University of Maryland's I-School and Antifragility Health, ultimately leading to a project for the course INST-710.

Industry-University Research Partnerships and Applied AI Research:

Advanced Genomics Research Summer 2023 - present

- Research and Learning Scientist in Applied Human Centered AI and Digital Twins models.
- Develop interdisciplinary research collaborations to advance digital twin models through human-centered, interpretable systems for personalized health and wellness learning.
- Advancing a learning sciences and human-centered research agenda that translates complex health domain knowledge into accessible, interpretable representations to support informed health and wellness decision-making.
- Collaborate with interdisciplinary teams across AI, data science, and domain experts to develop theory-driven, explainable digital twin architectures.
- Position digital twins as epistemic tools for learning about health and decision-making rather than pure technical simulations of virtual models that represent people.
- Develop research frameworks that align industry innovation goals with academic research, assessment, and publication pathways.
- Designing learning and visualization journey maps for Advanced Genomics Research INC (DBA Anti Fragility Health Clinic). I am responsible for leading the project that involves designing and building solutions to integrate clinical biomarkers, interventions, and lifestyle data from wearable devices into an overall AI-supported diagnostic tool to support customers easily interacting with and understanding their health journey through data visualizations.

Intelligent Futures

- Co-founded the non-profit Intelligent Futures to equip communities in the age of AI 2024 - present
- Developing AI-enabled analytics tools to model teacher learning trajectories from instructional video data and support reflective practice.
- Integrate learning sciences theory, multimodal analytics, and AI to create scalable frameworks for assessment, feedback, and professional learning.

Research to prototype ASD-Accept with IPS LLC 2023 - present.

- Research on building a prototype version of a web and mobile application to collect data to design chatbots and other interactive digital representations to promote inclusivity, understanding, and acceptance of individuals on the autism spectrum from indigenous populations. www.asd-accept.com

Research with Technovation Families 2017 - 2018

- Support families across 13 countries to design hands-on Artificial Intelligence solutions to solve real-world problems in AI.

CAREER EXPERIENCE:

African Institute for Mathematical Science 2016 - 2017

Consultant

- Responsible for designing curriculum for digital training programs for in-service mathematics teacher professional development for AIMS.
- Developed teaching curriculum and methods to improve the quality of teaching and learning Mathematics in Cameroon.
- Designed activities and programs aimed at increasing the pipeline of women and girls in STEM in Cameroon. One of such programs is a STEM challenge for middle school girls called STEM Your School sponsored by the US Embassy Cameroon and aired on national TV for one year.
- Designed activities to integrate hands-on practical teaching and learning of Mathematics using Tinker CAD, 3D printers, and programmable robots to design and teach math concepts.
- Identified and connected students to STEM career opportunities by linking them to make spaces and startup communities. https://aims-cameroon.org/academic-programs/teachers training/

Tassah Academy 2009 - Present

- Founded the Tassah Academy, a leading provider of applied STEM education in Cameroon. To date, the academy has trained over 10,000 students using educational technology activities that prepare K-12 students with appropriate skills for 21st-century jobs.

NexGen Higher Institute of Technology 2015 - 2024

- Co-founded NexGen Higher Institute of Technology, an inclusive technology higher institute located in Yaoundé, Cameroon.
- NexGen partners with the Developer's Institute in Israel to help individuals who want to have accelerated, intensive, and quality training for high-tech employment, and to launch their new careers.
- NexGen designs activities to deliver boot camps for courses in Full-stack JavaScript and Python, full-stack Javascript, and Data Analysts. Our courses are tailored to deliver programming skills through intensive coding boot camps and mentoring courses for beginner to job-ready developers through certification programs.

Intern Symantec Corporation 2013

Intern

- Worked on a US Department of State-sponsored project to design and develop educational software
- Designed learning platforms powered by Raspberry Pie to support STEM curricula for under-resourced communities

John Paul II University Cameroon 2012 - 2015

- Point of contact for John Paul II's academic programs.
- Promoted teaching excellence, and development of innovative curricula, and learning management systems.
- Provided academic mentorship for junior faculty, and staff.
- Answered external inquiries, enrollment guidance, and academic advising for engineering students.
- Managed course evaluations.
- Assisted with fellowship and grant opportunities and opened new partnerships with foreign universities.

CETIC de Ngoa Ekelle 2000 - 2009

Head of Department Electronics and Automotive Electronics

- Taught electronics and mechatronics courses to vocational students in electronics and automotive electronics.
- Advocated to have teachers use more technology in their classrooms; use ICT tools and baseline multimedia techniques to encourage engagement in the teaching/learning exercise.
- Won grants with the Embassy of Israel in Cameroon to design maker spaces and innovation labs in 4 Schools in Cameroon.

TEACHING EXPERIENCE:

University of Pittsburgh

Guest Lecturer - Applied Data Analysis for Public Policy

District of Columbia Public Schools - CornerStones

Mathematics Teacher Professional Development for Computational Thinking – 2018, 2019, 2021

Lycee Technique de Charles Atangana: Technical Vocational School level courses

MEL21: Electrotechnical Systems: Maintenance of electronics systems, Industrial Electronics, Electrotechnical systems, Microprocessors and Advanced troubleshooting - capstone projects

MSB41 - Mathematics for Computer Science: Applied Mathematics I & II - Instructor

John Paul II University, Cameroon – undergraduate level courses 2013 - 2016

EN102 - Automation and Control – Instructor

EE304 - Automatic Systems and Simulations – Instructor

EN403 - Electronic Systems and Simulations – Instructor

MEL41 - Electrotechnical Systems and Automated Systems – Instructor

MEL42 - Switched Mode Power Supply and Computer-Assisted Design – Instructor

Cetic de Ngoa-Ekelle Vocational Training level courses 2000 - 2009

EE103 - Integrated circuits – Instructor

EE101 - Circuit Theory – Instructor

EM 204 - Electromagnetics I and II – Instructor

EE 206 - Electronic Switching Network – Instructor

EE 101- Algebra – Instructor

EE 201- Applied Mathematics – Instructor

MEL21: Electrotechnical Systems: Maintenance of electronics systems, Industrial Electronics, Electrotechnical systems, Microprocessors, and Advanced troubleshooting (capstone projects)
Introduction to Programming with C – Instructor

RELEVANT COURSES IN QUALITATIVE RESEARCH METHODOLOGY:

TLPL 791 Qualitative Research I
TLPL 792 Qualitative Research II
TLPL 788J Introduction to Interaction Analysis
EDHI 788P Case Study Methods
TLPL 788Q Theories of learning with Technology
TLPL 794 Foundations of Education Research I
TLPL 795 Foundations of Education Research II
TLPL 703 Research on Technology in Education
TLPL 788V Research and technology

REVIEWER:

Journals:

ACM Transactions on Computing Education (TOCE)	2024, 2025
Journal of African Women and Girls in Education	2024

Conferences:

EAAMO Conference	2025
NCME-AIME Conference	2025
Constructionism/Fablearn	2020
American Educational Research Association	2021- 2024
International Society of the Learning Sciences	2021- 2022 - 2025
ACM Interaction Design and Children (IDC)	2024

AFFILIATIONS:

Academic Affiliations:

- Member Postdoc Career Development Committee, University of Pittsburgh
- Facet Lab University of Pittsburgh
- Member of the Human-Computer Interaction Lab, University of Maryland. https://hcil.umd.edu/current-students/
- Member of the YXlab at the University of Maryland.
- Tech.math. play lab University of Maryland
- Association of Computing Machinery
- American Educational Research Association
- International Society of the Learning Sciences

Non-Academic Affiliations:

- Member of the European Union-African Union Digital Economy Task Force, working to provide recommendations on policies and measures that can support Pan-African Digital Integration. https://ec.europa.eu/digital-single-market/en/africa#title2.
- Member of Africa Europe Foundation Digital Economy Strategy group https://www.africaeuropefoundation.org/people/
- Techwomen Alumni member since November 2013 www.techwomen.org.
- Member of the Cameroon Chapter of Girls in Tech, a global organization focused on the engagement, education, and empowerment of influential women in Technology http://Cameroon.girlsintech.org.
- Program lead for AI Challenge Cameroon, bringing together families to use technology for change. AI family challenge is a hands-on artificial intelligence (AI) educational challenge that brings families and the community together to create, learn about and solve real-world problems using AI.
- Leadership council member of Women Enhancing Technology Africa. http://www.iie.org/Programs/WeTech

- Board member, working to advance STEM education for African Women (WAAW) foundation. www.waawfoundation.org
- Mashav Economic Empowerment of Women, under the Israeli Agency for International Development Corporation.
- The STEM Prize award by the Denis and Foretia Foundation. https://stemprize.org/team/janet-fofang/
- AFCHIX women in tech role models http://www.afchix.org/role_models/bih-janet-shufor/
- Leadership member of the Pan-African Women in Leadership Forum; Director of Science Technology Engineering and Mathematics (STEM) Education.
  www.pawilf.org.

AWARDS AND RECOGNITIONS:

- Honored, March 2024 on the gallery walls of the French Cultural Center in Cameroon for outstanding contributions and dedication to promoting STEM, Computational Thinking, and Artificial Intelligence education for women and girls.
- Celebrated on 2019 International Day of Women and Girls in Science as one of Sub-Saharan Africa's female scientists by the Bridge International Academies. https://www.bridgeinternationalacademies.com/idwgs2019/
- Winner of the 2016 **A. Richard Newton Educator ABIE Award winner,** for developing innovative teaching practices and approaches that attract women and girls to Computing Engineering, and Mathematics. https://anitab.org/profiles/abie-award-winners/richard-newton/bih-janet-shufor-fofang/
- Nominated Innov8tiv's top 100 women visionary leaders to watch in 2016. https://www.borgenmagazine.com/girls-education-in-cameroon/
- Nominated Africa's leading women in Tech 2015 by IT News Africa
- Nominated Innov8tiv's top 100 women visionary leaders to watch in 2016. https://www.borgenmagazine.com/girls-education-in-cameroon/

SERVICES:

University:

- International Orientation Leader 2024
- GREC support staff: Put together online resources for GREC faculty grant writing projects, and graduate student handbook including doctoral and master's course schedules for all 2018
- Organize TLPL Doctoral Program Admissions and Information Webinar for all prospective international students for TLPL 2018

Outreach Programs:

- Virginia Tech K-12 Initiatives Drone Soccer - Mentor and volunteer
- First Global Robotics team Cameroon mentor https://first.global/in-the-news/16-year-old-to-represent-cameroon-at-international-robotics-challenge/ 2017 - present
- NexGen STEM summer camps for programming with scratch and robotics kits 2014 – 2017
- STEM Your School: Designed activities and programs to support STEM female educators to create STEM clubs for girls in their schools. programs were aired on national television for one year. 2014 – 2015

Advocacy

I was a favorable witness at the Maryland Senate to support SENATE BILL 980 sponsored by Senator Katie Hester, requiring public high schools to promote and increase the enrollment of certain students in high school computer science and artificial intelligence courses and requiring county boards of education to provide developmentally appropriate computer science instruction in public elementary and middle schools in their counties. 2024

GRANTS/PROJECTS:

- "Mentors Beyond Borders", A Mission Driven Alumni Outreach Proposal funded by the US Embassy Cameroon - 10,000 USD
- "Bridge the Tech Gap" funded by the Alumni Engagement Innovation Fund (AEIF) - 25,000 USD

- "3D Printing for Teachers" A 3D printing project for female teachers supported by the Embassy of Israel in Cameroon - 10,000 USD.
- "STEM Your School" Funded by IIE/WeTech - 20,000 USD http://www.iie.org/Programs/WeTech
- "Girls STEM Induction Program" Funded by the British High Commission Cameroon - 3 million XAF.
- "AI Family challenge by Curiosity Machines" sponsored by Iridescent - 5000USD https://www.curiositymachine.org/aichallenge/ -
- First Robotics Team Cameroon sponsored by First Global - $20000 annually since 2017. https://first.global/

CERTIFICATIONS:

- Certificate in Data Analytics from Developer's Institute
- Certificate of completion in JavaScript and Python from Developer's Institute
- Introduction to Artificial Intelligence; IBM and Coursera
- Machine Learning; IBM and Coursera
- Deep learning Specialization

SKILLS:

Programming languages: Working knowledge of Wolfram language, Python, Google Colab, HTML5, CSS, JavaScript, MySQL, R, and machine learning with Weka, PHP, Node.js, and JAVA.
Computer: Hardware maintenance, Office 365, Google Apps, Google Classrooms, Canvas LMS.
Languages: Fluent in written and spoken English and French. I also speak other African dialects.