

Pius O. Odhiambo, Mathematics Teacher

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SUMMARY

Enthusiastic Mathematics Teacher with a track record of inspiring students through engaging and effective instruction! With extensive experience in teaching both Mathematics and Physics, I've made learning enjoyable and meaningful for high school students. My hands-on approach and interactive lessons have always kept students motivated and excited about their education. I'm passionate about developing creative lesson plans that can cater to different learning needs, while actively involving parents in their children's education. Looking forward to making a positive impact at a vibrant school community!

WORK EXPERIENCE

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| 09/2025 – Present | Classroom Teacher-
Mathematics(7-12)
Prince Georges County Public Schools (PGCPS) | Parkdale High School, Riverdale, MD, United States |
| | <ul style="list-style-type: none">• Developed and delivered lesson plans aligned with state standards and curriculum requirements .• Instructed students on concepts including inequalities, systems of equations, and quadratic functions, fostering critical thinking.• Designed, administered, and graded quizzes, tests, and homework to effectively monitor student progress.• Adapted teaching methodologies to provide support for struggling students while challenging advanced learners including students with disabilities.• Established and maintained a safe, respectful, and productive learning environment through effective classroom management.• Participated in Professional Learning Communities (PLCs) and communicated student performance updates to parents.• Integrated digital tools and software to enhance student engagement and learning experiences. | |
| 06/2024 – 08/2024 | Computer Science Research Intern
DOD HBCU MI | Shalimar, FL, USA |
| | <ul style="list-style-type: none">• Conducted research on the predator evasion strategies, geographic navigation for egg laying, and energy-efficient aerial maneuvers of <i>Drosophila melanogaster</i> (fruit fly).• Employed the flybrain lab to evaluate the cognitive functions of the fruit fly, with the objective of creating neural networks that mimic advanced Unmanned Autonomous Vehicles (UAVs) for improved performance.• Developed a research poster and wrote an abstract under the mentorship of AFRL for presentation at the DOD/HBCU/MI 2024 Summer internship seminar/workshop scheduled for July 25-26, 2024, in Arlington, Virginia.• Engineered neural network circuitry to replicate the fruit fly's behavior utilizing flyvision and PyTorch. | |
| 05/2019 – 07/2020 | Research Assistant, Data Science & Cybersecurity
Bowie State University | Bowie, MD, USA |
| | <ul style="list-style-type: none">• Trained undergraduate SURF research students in Data Analytics, Machine Learning, and Visualization tools to enhance their technical skills.• Assisted students in researching cyber-attacks on SCADA systems and gathering Cyber Threat Intelligence from the darknet. | |

- Collaborated with a team of student researchers to construct and simulate a small SCADA system for a dam.
- Utilized data analytics tools such as WEKA, advanced Excel functions, R programming, and Python to support research initiatives.
- Implemented Machine Learning and Artificial Intelligence algorithms within SCADA systems research for improved accuracy.
- Developed an innovative algorithm to predict credit card fraud detection, contributing to cybersecurity efforts.
- Led a group of eight developers divided into teams focusing on Data Science and Cybersecurity, fostering collaboration and productivity.

08/2016 – 11/2017

High School Mathematics, Physics & Physical Science Teacher

Clinton, MD, USA

Grace Brethren Christian School

- Instructed 12th grade Consumer Math, 12th grade Honors Physics, and 9th grade Physical Science, promoting a comprehensive understanding of scientific concepts.
- Crafted detailed lesson plans and executed effective instructional techniques tailored to diverse student learning styles.
- Organized a successful educational trip to the NASA center in Greenbelt, MD, significantly enriching students' learning experiences.
- Created learner-focused notes on PowerPoint slides to facilitate effective curriculum delivery.
- Engaged in the design, administration, and assessment grading to evaluate student achievement.
- Oversaw and graded innovative projects in Consumer Math, Physics, and Physical Science, fostering creativity and critical thinking.
- Utilized technology to enhance curriculum delivery and student participation.
- Tracked student attendance, grades, homework, and lesson plans utilizing RenWeb.
- Maintained continuous communication with parents through phone calls, emails, RenWeb, and class conferences to ensure student success.

08/2014 – 06/2016

High School Mathematics & Physics Teacher
National Christian Academy

Fort Washington, MD, USA

- Instructed 10th grade Algebra/Geometry and 12th grade Physics, fostering a robust mathematical foundation among students.
- Developed comprehensive lesson plans and utilized effective teaching methodologies to enhance student learning.
- Participated in the creation, administration, and grading of assessments to uphold equitable evaluation standards.
- Supervised and assessed projects in Geometry and Physics, encouraging experiential learning.
- Leveraged RenWeb to monitor student attendance, maintain academic records, and organize homework alongside lesson plans.
- Maintained open communication with parents via phone calls, RenWeb, emails, and class meetings, strengthening the connection between home and school.

07/2007 – 02/2011

High School Mathematics, Statistics & Physics Teacher
Olkejuado High School

Kajiado, Kenya

- Instructed high school students in Mathematics, Statistics, and Physics from grades 9 to 12, effectively preparing them for higher education.
- Facilitated student involvement in science congresses and supervised science club projects, fostering innovation and creativity.
- Received a Certificate for exemplary performance in Physics in 2010, a testament to effective teaching.

- Led the e-learning department, successfully managing the technology integration for a school of 1,000 students.
- Coordinated comprehensive staff training in e-learning for 60 educators and over 1,000 learners, enhancing digital proficiency.
- Played an active role in designing, administering, and grading assessments to maintain academic integrity.

01/2006 – 05/2007

High School Mathematics Teacher

Nairobi, Kenya

Survey Tuition School

- Instructed high school students in Mathematics, Statistics, and Physics (grades 9-12), effectively preparing them for higher education.
- Facilitated student involvement in science congresses and supervised science club projects, fostering innovation and creativity.
- Actively participated in designing, administering, and grading assessments to uphold academic standards.

10/2001 – 12/2005

High School Mathematics / Physics teacher

Thika, Kenya

Kenyatta Girls Sec School

- Instructed high school students in Mathematics, Statistics, and Physics across grades 9-12, successfully preparing them for higher education.
- Facilitated student participation in science congresses and supervised science club projects, promoting innovation and creativity.
- Actively participated in the design, administration, and grading of assessments to uphold academic integrity.

EDUCATION

08/2019 – 05/2024

Bowie State University

Bowie, MD, USA

Master of Science, Computer Science

- Relevant Coursework: Mathematics & Computer Science

10/1996 – 10/2000

Kenyatta University

Nairobi, Kenya

Bachelor of Science Education, Mathematics, Statistics & Physics

- Relevant Course Work: Mathematics, Statistics & Physics

LANGUAGES

English (Native)

Swahili (Native)