Amstrong Tah Forwah, PhD

GitHub

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EDUCATION

University of Yaounde I — Yaounde,Cameroon
Doctor of Philosophy in Physics — *Dec. 2018 – Dec. 2022*

University of Yaounde I — Yaounde,Cameroon
Master's of Science in Physics — *OCT 2015– July. 2018*

University of Bamenda — Bamenda,Cameroon
Bachelor's in education in Physics — *Sep 2009– July. 2012*

EXPERIENCE

LMS (self-employed) — Yaounde, Cameroon
Python Software Engineer — *Jan 2023 - Present*

- **Software design and maintenance**: I design software for personal use and generally to help my fellow teaching colleagues. I have published a major software to help teachers get better insights into their students' performance and predict their future scores. In the future, I intend to publish software using web frameworks and run my blog.

Ministry of secondary education of Cameroon — Yaoudne, Cameroon
Secondary and high school physics teacher — *Jan 2013 - Present*

- **Physics teaching and grading. Theory lesson planning.Practical lesson planning. Public speaking expert**: I get along with most colleagues and I always achieve remarkable student performances in public exams.

SOFTWARE PROJECTS

- **Classsroom-Insights**: A Software designed to compute various descriptive statistics from students' performance. Uses machine learning to predict the next performance on an exam and store results in a database.
- **PdfResearch**: A software that scans a folder in search for word patterns and keyword combinations in PDF, text and word files.
- **WordleClone-Unlimited**: A GUI clone of the famous game, Wordle, unlimited words per day.
- **Pdf miner and scraper**: A scraper and downloader for the website:cameroongcerevision.com, an online repository of past exam questions in pdf format.
- **Analog-clock-Python**: A 2d simulation of an analog clock using PyQt.

PROGRAMMING SKILLS

- **Languages**: Python, HTML, CSS, Javascript, SQL, Django, MATLAB

PUBLICATIONS

- **Amstrong Tah Forwah, Conrad Bertrand Tabi, and Timoléon Crépin Kofané. "Hopf bifurcations on invariant manifolds of a modified Fitzhugh–Nagumo model." Nonlinear Dynamics 102, no. 1 (2020): 311-327.**: Investigating Neuronal oscillations induced by relaxation time
- **Tah, Forwah Amstrong, Conrad Bertrand Tabi, and Timoléon Crépin Kofane. "Pattern formation in the Fitzhugh–Nagumo neuron with diffusion relaxation." Chaos, Solitons & Fractals 147 (2021): 110974.**: Investigating neuronal oscillations in spatially extended neuronal models, continuation.

CONFERENCES

- **CONFCAYS, August 2021**: Workshop on ethics in research, entrepreneurship, and funding. Yaoundé, Cameroon
- **CERN HST program, July 2022**: High school teacher program Geneva, Switzerland