



Etrude Howard Evans

Sex: Male

Nationality: Ghanaian

Via Giuseppe Cacchi 16,
67100, L'Aquila (AQ),
Abruzzo, Italy

+39 0332 218926



eva.etruehoward@gmail.com

evans.etrue@mathmods.eu

evans.etruehoward@graduate.univaq.it

univaq.it

[ketruehoward](#)



[Etrude Howard-LinkedIn](#)



[Etrude Howard-GitHub](#)



[Etrude Howard-Bitbucket](#)



[Etrude Howard-GitLab](#)



[Etrude Howard-Twitter](#)



[Etrude Howard-GitLab](#)



Evans Etrude Howard

Operations Research/

Optimization Enthusiast

About me

I am a very determined and practical person with the ability to quickly learn new skills, enjoys working independently and also as part of a team under the supervision of others. I am a highly – motivated person with excellent analytical, problem solving, a team player and verbal skills. To actively use my Optimization and Machine Learning knowledge in a reputable institution (university) that requires a challenging, strong analytical, team playing and organisational skills, which will enable me to utilize my acquired skills to the achievement of the short and long term goals of the institution.

Interest:

Emergency Evacuation Modelling, Integer Programming, Combinatorial Optimization, Linear Optimization, Network Optimization, Linear Programming, Big Data, Data Mining and Discrete Optimization

Education

University of L'Aquila, Italy

November, 2018 – to date

PhD in Information and Communication Technology: Emerging computing models, software architectures, and intelligent systems

Research Interest:

Algorithms and architectures for computation and optimization.

- o Network Optimization
- o Combinatorial Optimisation
- o Robust Optimization
- o Robust Combinatorial Optimization
- o Continuous Optimization
- o Social Network Analysis
- o Integer Programming
- o Linear Programming
- o Linear Optimization
- o Mixed-Integer Nonlinear Programming
- o Big Data Analytics and Mining
- o Discrete Optimization
- o Social Network Analysis

University of Insubria, Varese, Italy

October, 2016 – October, 2018

Research Assistant in Computational Mathematics (Machine Learning):

Interest:

- o Network optimization
- o Bayesian optimisation
- o Large-Scale Machine Learning
- o Online – line (sequential) prediction algorithms (e.g., Bandits)
- o Conformal prediction
- o Recommendation Engine
- o MySQL and No SQL
- o Mixed-Integer Nonlinear Programming
- o Big Data Analytics and Mining
- o Data Science
- o Bayesian Statistics
- o Markov Chain Monte Carlo Simulation
- o Social Network Analysis

Erasmus Mundus MSc, Mathmods Programme via University of L'Aquila, Italy and University of Hamburg, Germany

September, 2014 - September, 2016

MSc. Mathematical Engineering:

Specialisation: Stochastic modelling and Optimisation

Thesis: Panel Granger Causality Modelling of GDP, EXport and Exchange

Rate: Evidence from Developing countries in Africa

Supervisor: Prof. Umberto Triacca

Main Courses:

- Stochastic Processes and Probability, Combinatorial Optimisation, Time Series and Forecasting
- Modelling and Control of Distributed Systems, Simulation of logistics Systems
- Machine Learning, Numerical Approximation of PDE's using Finite Differences
- Unconstrained Optimisation, Mathematical Modelling
- Applied Functional Analysis to PDE's, Control Systems, Dynamical Systems and Bifurcation
- Applied Partial Differential Equations and Fluid Dynamics
- Numerical Analysis, Continuum Mechanics (Solid and Primer), Network Optimisation, Network Flow

Kwame Nkrumah University of Science and technology, Ghana

September, 2007 - September, 2011

BSc. Mathematics

Main Courses:

- Mathematical Analysis, Mathematical Methods, Numerical Analysis, MatLab
 - Calculus of Single and Multi - variables, Differential Equations
 - Probability, Time Series, Regression Analysis, Optimization
 - Statistics and Probability Theory
 - Sample Survey, Stochastic Processes
 - Algebra, Real Functions, Functional Analysis, Complex Analysis (Variables)
 - Theoretical Mechanics, Mathematical Economics
 - Partial Differential Equations, Classical Fields, Application for Development
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Experience

Erasmus Mundus MathMods Consortium, L'Aquila, Italy - MathMods

Jan, 2016 - March, 2016 & Feb, 2017 - March, 2017

Evaluation Assistant

Duties:

- Examination of academic records of applicants to determine eligibility
- Recorded applicants records – CV, transcript, SOP into MathMods students' information system.

Ghana Education Service, Shining Star International School, Tema, Ghana

January, 2013 - August, 2014

Mathematics Tutor

Duties:

I was employed as a Mathematics tutor at Shining Star International school, one of the best Junior High School in Tema, Greater Accra, Ghana. Here as a mathematics tutor, my main duty was to teach and prepare terminal reports for the students. This was done in cognizance with classes that were assigned to me by the head of department. I was also given the position of a form master where I was to counsel the students when necessary to inspire them to unearth their talents and to prepare class reports for the headmaster.

Kwame Nkrumah University of Science and technology , Ghana

September, 2011 - August, 2012

Research and Teaching Assistant (National Service)

Duties:

- Organisation of tutorials for the undergraduate students
- Assisting the final year students with their final thesis (Project work)
- Preparation of lecture materials and slides
- Help Desk

Ghana Ports and Harbours Authority (Tema Port)

June, 2011 - August, 2011

Internship

Duties:

- Data entry and Analysis
- Claims and Documentations
- Vessel Inspection
- Terminal Inspection
- Inspection of vessel berthing

Ghana Commercial Bank (Ashaiman and Tema Industrial Area)

June, 2010 - August, 2010 & June, 2009 - August, 2009

Internship

Duties:

- Customer Service Representative
 - Enquiries
 - Account checking
 - Account opening
 - Information Update of existing and old customers
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Skills

Platforms (OS Preference)

- Windows ★★★★★
- GNU/Linux ★★★★★
- MacOS ★★★★★
- Unix ★★★★★

Computer software

- GRETL
- EViews
- Microsoft Office™ tools
- Sit
- SPSS
- STATA
- Minitab
- NetworkX
- Github
- CPLEX
- Xpress
- SQL
- COMSOL Multi-physics

Optimization Software Libraries

- GLPK
- AIMMS
- AMPL
- MPL
- CPLEX
- GAMS
- GUROBI
- LINDO/ LINGO
- MOSEK
- SNOPT
- JUMP
- PYOMO
- ZIMPL

Programming Languages

- MatLab/Octave ★★★★★
- Python ★★★★★
- R ★★★★★
- Mathematica ★★★★★
- Maxima ★★★★★
- Julia ★★★★★
- Sage ★★★★★
- Scilab ★★★★★
- Bash & Git ★★★★★
- SQL ★★★★★

Language

- English - the official language for all my education ★★★★★ C2
- Italian - Beginner & Basic User ★★★★★ A2
- German - Beginner & Very Basic User ★★★★★ A1
- French - Beginner & Very Basic User ★★★★★ A1

Personal

- Team Player ★★★★★
- Problem Solving ★★★★★
- Initiative ★★★★★
- Curiosity ★★★★★
- Interpersonal ★★★★★
- Intercultural ★★★★★
- Organisation ★★★★★
- Management ★★★★★

Honours and Awards

- January, 2019 - Date : PhD Research Fellowship, [University of L'Aquila, Italy](#) and [Territori Aperti- L'Aquila, Italy](#)
 - October, 2016 - September, 2018 Research Assistant Fellowship, [University of Insubria, Italy](#)
 - September, 2014 - August, 2016 [Erasmus Mundus MathMods Consortium Scholarship](#) (90%)
 - September, 2014 - August, 2016 Abruzzo Regional Grant, Italy
 - 2015 – 2016 University of L'Aquila Mobility Grant, Italy
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Publications

- On Context-Dependent Clustering of Bandits ([Main](#), [Supplemental](#))
with C. Gentile, S. Li, A. Karatzoglou, P. Kar, G. Zappella
Proc. of the 34th International Conference on Machine Learning (ICML 2017).
 - Anonymized
with E.K Mensah, L. A. Asamoah
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Conferences and Summer Schools

Summer Schools

- [European Embedded Control Institute \(EECI\) 2016 M15 at L'Aquila](#)
On Cyber - Physical systems control: Algebraic and Optimization techniques by [Prof. Raphael Jungers](#) (April 4th – 8th 2016, University of L'Aquila, Italy)
 - [OBA Conference](#)
Summer School on Optimization, Big Data and Applications (OBA) (From 2-8 July 2017)
 - [Applied Harmonic Analysis](#) (July 24-28,2017)
A workshop on "Three minicourses on Signal Analysis and Big Data" delivered by
 - [Andreas Maurer](#) on Concentration inequalities
 - [Lorenzo Rosasco](#) on Regularization Methods for Large Scale Machine Learning
 - [Felix Voigtlaender](#) on Sparsity Properties of Frames via Decomposition Spaces
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References

References upon request.