

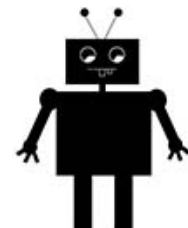
# Lloyd Acquaye THOMPSON

MSc. | Machine Learning | Robotics

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I am optimistic about the applications of Machine Learning, Computer Vision, and Robotics in solving real-life problems. I have relevant experience and continue to work tirelessly to enrich my skills. I benefitted from a Facebook and Google scholarship in the African Masters in Machine Intelligence Program, and I believe in perseverance and making use of opportunities. I am resilient, self-motivated, and able to adapt to new and challenging environments at any point in time.

## PROFESSIONAL EXPERIENCE

July - 2021	<b>Neuromatch Academy   Lead TA, Computational Neuroscience , SUMMER SCHOOL, Online</b> ➤ Facilitated the learning process through teaching, tutorial, a project, and providing support to other TA's in the megapod. <a href="#">Zoom</a>
2015 - 2018	<b>Mint Innovations   Lead, Technical and Strategic Development for Artificial Intelligence Education, Accra, Ghana</b> ➤ Involved in designing and implementing robotics course modules on A.I Pattern Recognition and Image Processing using SpyBot <a href="#">Arduino</a> <a href="#">Raspberry Pi</a> <a href="#">ScrapBotTV</a> <a href="#">Lego Robot</a> <a href="#">E-Z Robot</a>
2014 - 2015	<b>Technology Research and Innovation Center (TRIC)   Research Assistant, FUNDED BY MESTI-COTVET, Accra - Ghana</b> ➤ Developed an Incident Reporting System, which was intended for the Ghana Police Service and the Ghana National Fire Service <a href="#">Android</a> <a href="#">iOS</a> <a href="#">Mobile App</a> <a href="#">Eclipse</a> <a href="#">Accident Reporting System</a>
May 2015 November 2013	<b>Mint Innovations, TUTOR, Accra, Ghana</b> ➤ Teaching how to design and build electronic circuits through the usage of breadboards, LED's, push buttons and servo-motors <a href="#">Legos</a> <a href="#">LegoMindStorm EV3</a> <a href="#">STEM EDu</a>
September 2014 September 2013	<b>Ghana Technology University College (GTUC)   Teaching Assistant, ACCRA - GHANA,</b> ➤ Laboratory Assistant for C++ , HTML and Python ➤ Supporting students on research projects and thesis documentation <a href="#">Linux</a> <a href="#">Microsoft Office</a> <a href="#">SQL</a> <a href="#">HTML</a> <a href="#">Python</a>

## EDUCATION

2019-2020	MSc. African Masters for Machine Intelligence (African Institute of Mathematical Sciences, Rwanda)
2009 - 2013	BSc. Information Technology, Ghana Technology University College, Accra, Ghana
2006 - 2007	Advanced Certificate in Information Technology, NIIT, Ghana

## PUBLICATION/MEDIA

2021	Fast Development of ASR in African Languages using Self Supervised Speech Representation Learning : <a href="https://arxiv.org/abs/2103.08993">https://arxiv.org/abs/2103.08993</a>
2015	Aljazeera, Innovate Africa : <a href="https://www.youtube.com/watch?v=AZEN_JqTYdk">https://www.youtube.com/watch?v=AZEN_JqTYdk</a>
2013	ScrapBot TV

## SKILLS

<b>Programming</b>	Python, Pytorch C++ and Deep Learning Related Frameworks and Packages, PDDL, Arduino, Raspberry-Pi, NXC, mBlock
<b>Database</b>	MySQL, PostgreSQL
<b>Tools</b>	MS Office Suite, Google Suite, Latex, Git
<b>Operation System</b>	Linux, Windows, Mac-OS, iOS, Android
<b>Others</b>	LegoMindStorms, E-Z Robot

## LANGUAGES

English ●●●●●  
French ●●○○○

## FORCES

- > Resilient
- > Self Motivated
- > Able to work under pressure
- > Goal Oriented

## HONORS AND AWARDS

2019	Full Scholarship from Facebook and Google : MSc. Machine Intelligence
2013	First Class Honors, BSc. Information Technology, Ghana Technology University College
July 2013	University of Health and Allied Sciences, Ho, Ghana (Resilient Africa Network, Seminar)
2007	Outstanding Student Award, Advanced Certificate in Information Technology, NIIT Ghana

## PROJECTS

### UNSUPERVISED KEYPOINT REPRESENTATION, DYNAMICS MODELING AND CONTROL

CURRENTLY

#### Maters Project, Supervised by Dinesh Jayaraman, University of Pennsylvania-USA

I am working on getting a faster keypoint representation from videos to predict their future positions and then control the movements through visual-servoing

Pytorch Computer Vision Machine Learning Robotics

### AN INTELLIGENT LEGO ROBOT TO SORT MARBLES USING COLOR RECOGNITION

2013

#### Undergraduate Project

I assembled and programmed a Lego Color Sorter that is able to identify and sort different colored pebbles, and place them in the respective trays, this is a symbolic representation of how possible it is for A.I to sort cocoa beans.

C++ Lego NXC CodeBlocks

### LEGO RUBIKS CUBE SOLVER

2014

#### DIY Project

This project was to solve the famous Rubik's Cube using a Lego robot, the idea tested how algorithms can be translated to workable programming source-code.

C C++ Arduino Raspberry Pi

## OUTREACH AND VOLUNTEERING

2016/2019	Humanist Association of Ghana : Organizing Secretary, (Promoting Science and critical thinking in Primary, Secondary and Tertiary level through the Freethinking Campus project and the Book-Drive donation)
2013 - 2015	Free Campus Micro-controller Training Program : Initiated the free campus workshop for students to learn how to program and build prototype projects. A few of the projects we worked on are Obstacle Avoiding Robot, Weather Monitoring Station, Arduino for Speech Recognition and Autonomous Lane Keeping Car with Raspberry Pi and Legos
2012	Metro Institute of Innovation and Technology : Had the opportunity to introduce a group of young graduates from Orphanage Africa to computers, i.e. MS Office Suite, Intro to the Internet, Google Apps etc

## “ REFERENCES

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**Moustapha Cisse, Ph.D**

*Facebook A.I, (FAIR)*

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**Angela Tabiri, Ph.D**

*AIMS-Google AI, AFRICAN INSTITUTE FOR MATHEMATICAL SCIENCES*

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**Benjamin Nortey**

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