About AIMS

The African Institute for Mathematical Sciences (AIMS) is a pan-African network of Centres of Excellence for post-graduate training, research and public engagement in mathematics with a mission to lead the transformation of Africa through innovative scientific training, technological advances, breakthrough discoveries, strategic foresight and innovative policy design.

Founded in 2003 in South Africa and later replicated in Senegal, Ghana, Cameroon, Tanzania and Rwanda under the framework of the Next Einstein Initiative, AIMS is feeding the STEM pipeline by training African students for a Masters in Mathematical Sciences, including a co-operative option with a direct link to industry. The network also offers research programs, with 90 researchers currently conducting studies under the tutelage of prestigious Research Chairs across the network. In addition to a gender-responsive Teacher Training Program currently implemented in Cameroon and Rwanda, AIMS equally created two critical initiatives: Quantum Leap Africa to prepare the continent for the coming quantum revolution and the Next Einstein Forum to propel Africa on to the global scientific stage.

Created in 2011, AIMS Senegal was the second centre to be established as part of the AIMS Next Einstein Initiative network of 6 centres of excellence, training young Africans for Taught Master’s degrees in Mathematical Sciences. In 2015, AIMS Senegal became the first centre to host the Co-operative Master’s degree Program, as well as the Skills for Employability Program, both leveraging a model of work-integrated learning by combining formal instruction with scheduled, alternative segments of practical work experience in appropriate industry, in a bid to equip young Africans with problem solving skills by offering specializations in Big Data, Computer Security and Financial Mathematics, as well as professional development and soft skills training with the goal of filling the skills gap across Africa.

AIMS FACTS

As of July 2018

AIMS has 1,692 alumni, of which 32% are women, from 43 countries across Africa.

6 Centres of Excellence in 6 countries.

AIMS GHANA is a Category II UNESCO Centre of Excellence

We had 4,909 applicants from 48 countries in 2017.

83% of our first Co-op Cohort found gainful employment 6 months after graduation (AIMS Senegal).
Our Students

AIMS Senegal has graduated a total of 272 students (240 Taught Master’s and 32 Cooperative Master’s) since its inception in 2011.

We are currently training two cohorts of **76** students comprising: **34** Co-op students of the 2017/2018 cohort (**7** Female and **27** Male) and **42** students of the 2018/2019 cohort (**14** Female and **28** Male), pursuing the Taught (**17**) and Co-op Master’s (**25**) in mathematics. The students benefit from the experience of world renowned visiting Professors who give lectures for a period of 3 weeks on a rotational basis. Permanent follow-up and capacity building is provided by the Tutors who are always available on campus, to ascertain a 24-hour learning environment. After 10 months of training, the Taught Master’s students defend their research papers, while Co-op students proceed to the work-term, gaining professional experience by exploiting their mathematical problem solving skills in internship positions with relevant industry. With backgrounds in Mathematics, Engineering, Physics, Computer Science, as well as Actuarial Sciences, combined, our current students are nationals of 19 African countries, namely Benin, Burundi, Burkina-Faso, Cameroon, Chad, Congo Brazzaville, Côte d’Ivoire, Democratic Republic of Congo, Ghana, Kenya, Madagascar, Mauritania, Niger, Nigeria, Rwanda, Senegal, Sudan, Tanzania and Uganda. All students are expected to volunteer at least 20 hours to community service (give-back). This will reinforce their leadership skills and strengthen their sense of responsibility to give back to Africa. The training permits them to develop core skills in addition to their academic knowledge, making them well-rounded individuals capable of taking initiative and leading the positive transformation of their communities.

**AIMS Co-op Master’s Program**

**AIMS Taught Master’s Program**
Note from Dr Youssef Travaly, AIMS Senegal President

Welcome to AIMS Senegal – the second Centre of Excellence to be created under the framework of the Next Einstein Initiative! We are excited to welcome yet another Cohort of brilliant African minds in our quest to find the Next Einstein.

At AIMS Senegal, our mission is twofold:
(1) To foster in our students critical thinking, scientific and technology-based learning as well as active engagement with civil society and industry;
(2) To enable recent African postgraduates (PhD and Post-Doc researchers) to do cutting-edge research in mathematics and its applications.

As you commence your journey as AIMS Senegal students, you have automatically become Ambassadors of AIMS. We urge you to leverage the unique education you will receive at this institution to become worthy Ambassadors. It is your responsibility to emerge as problem solvers and leaders, with a commitment to give-back to your communities.

Get to know each other, ask questions and transform your environment by finding ingenious solutions to those things that nag you – think outside the box! You will have the opportunity to interact with renowned Professors, Scientists and Tutors from all over the world; you will get to meet leaders of ground breaking companies and organizations; you will get the chance to convince the little ones, that STEM is the future of Africa and the entire globe – endeavour to explore each and every one of these opportunities to the fullest.

Our training will equip you with the necessary academic knowledge, soft skills and competencies – but your networking will afford you the necessary visibility and open doors to unfathomable opportunities. We are giving you a clean slate – here is your chance to write a life-changing story. Good luck!
Meet our 2017/2018 Cohort!

Deborah Dormah Kanubala
GHANA
Co-op Mastercard Foundation Scholar
Born and bred in the Northern part of Ghana, Deborah developed her passion for mathematics after an interesting lecture on Algebraic expression at the Junior High School. She subsequently enrolled in the University for Development Studies where she obtained a Bachelor's degree in Financial Mathematics. During her undergraduate studies, she was actively involved in youth activism and student politics, serving as the Regional President of the National Service Personnel Association (NASPA) in the Upper East Region of Ghana. Having distinguished herself with her performance during her undergraduate studies, she enrolled in AIMS Senegal where she is currently pursuing the Co-op stream with specialization in Financial Mathematics. She joined MANOBI, a digital orchestration company for her work term placement where she worked on developing Risk Scoring and Control Algorithms for farmers in the smallholder setting. Currently serving as one of the student delegates for her cohort, Deborah recently participated in the Next Einstein Forum hosted in Kigali, as well as the 6th Heidelberg Laureate Forum in Germany. A remarkable orator, Deborah's dream is to become a renowned transformative Data Scientist in Africa and beyond – she believes the key to the development of Africa lies in the manner in which we decipher the enormous data generated on the continent.

Steven Ndung’u
KENYA
Co-op Mastercard Foundation Scholar
Steven was born in the town of Kitale, Kenya. His connection and love to science, especially mathematics and chemistry can be traced to his elementary and high school years. This led him to enrol for a B.Sc. in Actuarial Science at University of Eldoret, Kenya, where he not only excelled, but equally served as President of the Mathematics Association of the University. Through this association, he was able to work with fellow scholars to promote mathematics and inspire high school students to pursue the discipline. After graduation, Steven was involved in development of the Open Source Statistical Software built on R to foster understanding of Statistics in Africa and the entire world while volunteering with African Maths Initiative – known as the first statistical software developed from Africa for the rest of the world. Currently, he is undergoing the Co-operative Master Program at AIMS-Senegal where he doubles as the AIMS-Senegal and AIMS Global Network Mastercard Foundation Scholar Representative, where he has strengthened and broadened his understanding in Mathematics, Data Science and Leadership Skills. Being a Machine Learning and Deep Learning enthusiast, he was among the few selected to participate in the Indaba 2018 Deep learning conference in South Africa. Steven who carried out his internship at MANOBI aspires to be a Data Scientist to work on projects transforming Agriculture, impacting Climate Change and Tertiary Education across Africa and the rest of the world.

Abdoulaye Barro
SENEGAL
Co-op Scholar
Born in the west of Senegal, Abdoulaye Barro grew up with an exceptional talent as a footballer – they used to call him Ronaldo! His childhood dream was to become a judicial police officer. Throughout his studies, his professors noticed his outstanding performance in mathematics, encouraging him to pursue the discipline in his future studies. He enrolled at the university while eyeing a career in computer engineering, but his love for mathematics could not be overcome. Abdoulaye went on to obtain a Master's degree in Applied Statistics at UGB, after which he integrated AIMS Senegal to pursue the Co-op Master’s, facilitating his internship at ATOS, marking his career debut in the domain of Big Data. Abdoulaye aspires to become one of the most sought after Data Scientists and Engineers in Senegal.
Maimouna Gueye
SENEGAL
Co-op Scholar

Maimouna’s greatest childhood dream was to become a gynaecologist; however, fate decided otherwise. She went on to UGB where she was oriented towards Applied Mathematics and Social Sciences. She obtained a Bachelor’s degree in Applied Computer Science, closely followed by a Master’s in Computer Science with specialization in web development. In addition, she worked at the Centre d’Excellence Africain en Mathématiques Informatique et Technologies de l’Information et de la Communication (CEAMITIC) where she was responsible for the deployment of a monitoring and evaluation application and subsequently interned at ATOS and l’Agence de la Couverture Maladie Universelle. Ambitious and strong willed, Maimouna is always open to new opportunities. Maimouna fulfilled the work placement requirement at ATOS under the framework of the Co-op program – she is working towards a career in Data Security to implement sufficient levels of data protection for the integrity of sensitive business data.

Isaac Akoji Paul
NIGERIA
Co-op Scholar

Born in the northern part of Nigeria, Isaac grew up with a passion for science, nursing a dream to become a Pharmacist. He pursued high school studies in the sciences, subsequently gaining a BSc. in Mathematics and Information Technology from the Federal University Dutsin-Ma, Katsina state of Nigeria. Isaac’s interest in science during his high school days often earned him the “Best Science Student Award”. He went on to hold leadership positions during his undergraduate studies, like his tenure as class representative, where he led class initiatives and become the voice of his cohort. After his BSc. degree, Isaac continued leading as he was made the “Corpers Liaison Officer” and the president of the Education Development Group (Community Development Service) during his mandatory one year nation service. After completing his internship at SONATEL under the framework of the Co-operative Master’s program at AIMS Senegal, his aspiration is to become a Data Scientist, specializing in Natural Language Processing (NLP) and Artificial Intelligence (AI) in order to propel the much needed technological advancement in Africa.

Adrien Honoré Njanko
CAMEROON
Co-op Scholar

Honoré grew up with a keen interest in automated toys, with dreams of wielding super powers! The football passionate excelled in the sciences in secondary school, ending up at the University of Douala, where he obtained a Bachelor’s degree in Mechanical Physics, followed by a Master’s in Material Science from the University of Yaoundé I. As a student, Honoré was secretary general of the football team in his neighbourhood, using the sport to unite the kids in the neighbourhood and sensitize them about the ills of delinquent behaviour. After his stint at SONATEL, Honoré wants to become a Data Engineer, to help companies analyze voluminous data.

Mory Moussou K. Traore
SENEGAL
Co-op Scholar

Mory was passionate about medicine as a child. With the help of her father, she started learning math at the age of three. His influence went a long way, as Mory integrated UGB, where she earned a Bachelor’s degree in Applied Mathematics, followed by a Master’s in Numerical Analysis (mathematical modelling and scientific calculus). Mory has been engaged in motivating young girls to pursue the sciences – she has tutored girls under the framework of the “Miss Mathematics” and “Miss Science” competitions, equally donating her time as the coordinator of a religious association at UGB. After interning at SONATEL, Mory aspires to become a Data Scientist, to fulfil her dream of one day becoming a corporate director making math more accessible to children. She aspires to predict new learning methods to help develop the educational system in Senegal.
Silas Bright Aboh  
**GHANA**  
**Co-op Scholar**

Born in Kpando Ghana, Bright grew up with a passion for mathematics and finance. After pursuing high school studies in Business Accounting, he enrolled in the University for Development where he earned a BSc. in Financial Mathematics. During his undergraduate studies, Bright was actively involved in the voluntary teaching, where he participated in initiatives to teach in deprived communities. He served as the student representative for Financial Mathematics students within his cohort. He was the secretary elect for Volta Region Student Association. After his internship at SONATEL, Bright was selected to participate in the 2018 Stochastic Analysis Financial Insurance Mathematics (SAFIM) workshop. He aspires to become a Financial Analyst in order to understand and predict the so-called volatile stock market using Big Data.

Andriamarolahy Rabetokotany  
**MADAGASCAR**  
**Co-op Scholar**

Andriamarolahy was born in Antananarivo, Madagascar, where he grew up with his family. Since his childhood, he had curiosity and passion for sciences which guided him to pursue his high school studies in this field. After high school, he enrolled in the University of Antananarivo where he got his BSc. in Physics and its Applications. By this time, he quickly understood the importance of preparation, hard work, and respect. He applied these values to all his activities by working on his goal every single day and that always made him and his team to be efficient. Andriamarolahy who conducted his internship at SONATEL, wants to become a Data scientist in order to be part of the strides in cutting edge technologies.

Ibrahima Abdoulaye Ali  
**NIGER**  
**Co-op Scholar**

Born in Niger where he underwent his primary and secondary studies, Ibrahima gained admission into UCAD, culminating in a Master’s degree in Mathematics. Passionate about teaching, he offered capacity building during tutorials at UCAD, teaching courses in statistics and financial mathematics at the undergraduate level. Currently a PhD Researcher at UCAD, Ibrahima who recently completed his Co-op internship at SONATEL is working towards becoming a Data Analyst and a mathematics researcher with the the goal of facilitating access to information, towards achieving SDG 16.

Kirui Kipngeno  
**KENYA**  
**Co-op Scholar**

Kirui was born in Bomet, Kenya, where he grew up with a dream to make it to the list of famous mathematicians worldwide. After his successful secondary education, he gained admission into Maseno University where he studied for a BSc. in Mathematics, Economics and Information Technology. During his undergraduate studies he served as a Fresher Representative for Sunrise Flats where he facilitated the orientation of new students – his responsibility was to direct freshmen to their various rooms and show them around the school surroundings. He was also an active member of the small Christian community of Maseno Catholic Church, while simultaneously exploring his football hobby at the inter-university games. Currently pursuing a Co-op Masters in Mathematical Sciences with specialization in Big data and Financial Mathematics at AIMS Senegal, he recently completed an internship at TU Chemnitz, under the framework of the international Master’s and PhD program, which helped him deepen his research in mathematics. After AIMS, Kirui aspires to become a Financial Data Analyst and later on create his own investment company to provide expertise in risk modelization.
Mohamed Mounton  
**CAMEROON  
Co-op Scholar**

Mohamed gained admission into the University of Yaoundé 1, where he obtained a Bachelor’s degree in Physics. During his undergraduate studies, he was actively involved in the Ecological Club, where he participated in initiatives to plant trees on campus in order to combat global warming. Currently enrolled in the Co-op program at AIMS, Mohamed who recently completed an internship at TU Chemnitz aspires to become a researcher in Mathematical Biology, to use biological data to develop mathematical solutions that can predict and limit secondary extinctions of animal and plant species.

Sokhar Samb  
**SENEGAL  
Co-op Scholar**

Born in the remote village of Loul Sessene in the Fatick region of Senegal, Sokhar grew up with a passion for mathematics and science in general. Her love for math made Friday her favorite day at primary school because it was the day of the week when they had to solve four operations and a practical problem. After high school, she was awarded a scholarship to pursue her studies in Applied Mathematics and Social Sciences at UGB. Her dream of becoming a Statistician Engineer motivated her to obtain a Master’s degree in Statistics and Probability at the same university. In the course of her studies, Sokhar was actively involved in the Mathematics Club, as well as the association of students from the Fatick region and equally the association of students from the school of Science and Technology. After completing her Co-op internship at CEPEI, a think tank in Columbia, Sokhar dreams of becoming a Data Science expert. Her biggest goal is to promote girls in science.

Jamiil Touré Ali  
**BENIN  
Co-op Scholar**

As a little boy in Parakou Benin, Jamiil grew up with a dream of becoming an automation expert in order to participate in the modernization of factories and reduce the number of repetitive tasks performed by human-beings. He enrolled in the Polytechnic School of Abomey-Calavi, where he earned a Design Engineer degree in Electrical Engineering with focus on the Control of the Industrial Process. During his studies, Jamiil was actively involved in the Innovation in Electrical Engineering Club where he was able to work on some group endeavors such as the “simulating a traffic light system” project. Moreover, through the Leaders in English Club he fostered the learning of English by moderating different sessions on learning vocabulary related to the electrical domain as well as the daily conversation dialogue in English. After his internship at CEPEI Columbia, Jamiil aspires to become a Data Scientist and work in the Industrial domain in order to improve the quality of African-manufactured products at the national and international scale. This will reduce the rate of importation in those countries and facilitate the marketing of home-made products, towards the attainment of SDG 8 to promote inclusive sustainable economic growth and productive employment for all. His leitmotiv – “It always seems impossible until it’s done”.

Barnabas Kouami  
**CAMEROON  
Co-op Scholar**

Barnabas grew up with a natural passion for leadership, education, journalism and humanitarian assistance. After pursuing high school studies in Biology and Mathematical Sciences, he enrolled at the University of Yaoundé 1 where he earned an MSc. in Computer Science with specialization in Software Engineering and Information Systems. During his university studies, through his positions as mentor and student delegate, Barnabas marked his tenure by a dedicated, permanent and unconditional assistance to a good number of students with the sole objective of providing a conducive environment for the manifestation of their intellectual genius for the benefit of future generations. Conscious of the fact that African youths have more pages to write in the book of the emergence of their continent, Barnabas believes that the inclusive development of Africa
can only be achieved through his readiness for the new technological revolution dictated by artificial intelligence. Thus he joined AIMS with the aspiration of building an irrefutable profile as a Data Scientist with a solid base in Mathematics. After completing his internship at WAARW II Solutions Inc. Canada, Barnabas wishes to combine his AIMS experience with his previous training in Computer Science to be better equipped to address the many challenges faced in Africa in the domains of health, climate change, environmental challenges, insecurity and access to education for all.

**Dhahiri Hadija Philipo**  
**TANZANIA**  
**Co-op Scholar**

Born in Tanzania, Hadija grew up with a passion for business. After pursuing high school studies in Economics and Mathematics, she enrolled in the University of Dar-es-salaam where she earned a BSc. in Mathematics and Computer Science. During her undergraduate studies, Hadija was actively involved in small business endeavors on campus. After completing her internship at NADJI-BI Senegal, Hadija recently participated in the AIMS Senegal-TU Chemnitz workshop on Applied Mathematics in Germany. She aspires to a career in Financial Mathematics.

**Peurkor Anicet Mougabe**  
**CHAD**  
**Co-op Scholar**

With a great passion for mathematics and physics, Peurkor enrolled in the University of N’Djamena, graduating with a Master’s in Mathematics. Passionate about teaching, he began a career of teaching in secondary schools as soon as he left the university. After completing his internship at SSBI Dakar under the framework of the Co-op program at AIMS-Senegal, Peurkor aspires to become a Data Analyst and Mathematical Modelling researcher.

**Muema John Kisangau**  
**KENYA**  
**Co-op Scholar**

Born in Kenya, John grew up with a passion for robots. After pursuing high school studies in science, he enrolled in Maseno University where he earned a BSc. in Applied Statistics with Information Technology. During his undergraduate studies, John was actively involved in the Statistics Club, where he participated in initiatives to coach high school mathematics students in an effort to create a stronger mathematical community and culture of mathematics in his country. After completing his work term at the UN Office of Nairobi, John aspires to become a Data Scientist in order to facilitate decision making by drawing specific business, medical, financial and manufacturing conclusions using data.

**Benard Charles Ndege**  
**UGANDA**  
**Co-op Mastercard Foundation Scholar**

Growing up in Kampala, Uganda, Benard exhibited interests in repairing broken electrical instruments at a tender age. Whilst in primary and high school, science subjects came naturally to him and he grew up with a passion for automotive engineering. As a high school Junior, he participated in the National Mathematics contest organized by the Uganda Mathematical Society under the International Mathematical Olympiad and his performance was outstanding. Benard emerged valedictorian at his school after excelling in the Uganda Advanced Certificate of Education pursuing Mathematics and Physics as his majors. He proceeded to Makerere University where earned a Bachelor of Sciences (Physical) with Education specializing in Mathematics and Physics with honors and emerging among the top 5. Under the mentorship of Dr. John Kitayimbwa, a senior lecturer at Makerere University, Benard started the Youth Empowered Mentorship Group to help fellow university students benefit from holistic mentorship to life during and after their university years. Benard who recently attended the Next Einstein Forum, Kigali gleaned an internship at Ensibuuko Tech Ltd Uganda, where he is building a Savings and Credit Cooperative
Organizations (SACCOs) evaluation and monitoring platform to enable corporate financial institutions make right investment decisions, with the goal of promoting financial inclusion. Benard is looking forward to using his Data Science and Analytic competencies to promote financial inclusion among people in rural and remote areas.

Emmanuel Agbeli
GHANA
Co-op Scholar
Emmanuel is a native of Ho in the Volta Region of Ghana. He grew up with the love for numerical computation and teaching mathematics. After his high school education, Emmanuel opted to pursue a BSc in Statistics at the Kwame Nkrumah University of Science and Technology, Kumasi-Ghana, where he was awarded honors. He was an active member of the Association of Mathematics and Statistics Students, where he participated in an outreach program to assist senior high school students who were preparing for their final examinations. The outreach program offered free tuition to students who intended to write the West Africa Senior Schools Certificate Examination (WASSCE) as a way to equip them. During his spare time, Emmanuel explores analytical tools such as R, python, Hadoop and spark. After completing his work term at SAHAM Insurance Rwanda, Emmanuel who recently attended the workshop on Applied Mathematics at TU Chemnitz Germany, aspires to a career as a Data Scientist.

Meseyeki Saiguran
TANZANIA
Co-op Scholar
Born in Arusha Tanzania, Meseyeki grew up with the intention of becoming a Mathematics and Chemistry teacher. He earned an Advanced Certificate of Secondary Education in Mathematics and Social Sciences in 2013, after which he enrolled at the University of Dodoma where he earned a BSc in Mathematics. During his undergraduate studies he used his extra time for volunteering at various secondary schools around the city to teach mathematics. After his co-op internship at SAHAM Insurance Rwanda, Meseyeki wants to pursue a career as a mathematics lecturer in Tanzania, in a bid to share his skills and knowledge with the next generation of Tanzanians and eradicate the absurd notion that mathematics is difficult.

Babou Mbaye
SENEGAL
Co-op Scholar
Born in Luga, North of Senegal, Babou was raised by his grandmother, with an exceptional talent as a footballer. His childhood dream was to become a soccer star! However, his outstanding school results forced him to choose between stardom and education. From high school to university, all of his professors noticed his exceptional level in mathematics and incessantly gave him advice on his future. He initially decided to pursue a career in Civil Engineering, but his love for mathematics ended up swaying his decision. He went on to obtain a Master’s in Probability and Statistics from the University of Thiès, after which he joined AIMS Senegal. Babou who conducted his work term at Oolusolar, dreams of becoming one of the best Data Scientists in Africa.

Dalmas Otieno
UGANDA
Co-op Scholar
Dalmas grew up studying mathematics extensively, hoping to use the knowledge he was gathering to solve multiple challenges within his community. His passion for computers was ignited during the teenage phase of his life, where he was fascinated by the ease with which computers simplified problem solving. He enrolled for Bachelor of Science Education with specialization in Computer Science and Mathematics to gain pedagogical mastery of dispatching computational and mathematical literacy in Busitema University. He became the Vice-Chairperson of the Electoral Commission at Busitema University where he observed the most peaceful elections throughout his term in office. Dalmas’
Information Technology skills were highly appreciated by the Campus Eye Newsletter where he served as the Information Technology consultant and developed several models of relaying information throughout the whole university and the surrounding communities. During his free time Dalmas listens to music while working on his machine learning side projects. Dalmas interned at Oolusolar and is working towards a career as a Data Scientist.

Ibrahima Fall
SENEGAL
Co-op Scholar
Born in Senegal, Ibrahima grew up with a passion for all things science, especially mathematics and computing. He owned a personal computer and quickly developed a desire to hack and crack passwords. He proceeded to the University of Thiès where he earned a Master's in Cryptography. During his time at the university, Ibrahima was actively involved in the English Club, equally excelling in the basketball team. Ibrahima, who is one of our top tier students, conducted his work term at MNS Consulting – he is working towards becoming the best Data Scientist and Cryptographer in Africa.

Abdullahi Adinoyi Ibrahim
NIGERIA
Co-op Scholar
As a child, Abdullahi faced difficulties in mathematics. In spite of this, he wanted to become a Petroleum Engineer and was bent on doing better in math. This new resolve led him to win the prize of 2nd best student in mathematics in secondary school. He enrolled at Ekiti State University, where he earned a BSc in Mathematics. During his undergraduate studies, he was actively involved in Student Unionism, serving as President of NAKOSS, Chairman of SGMU (MSSN_EKSU) and Chairman of the Governor's council in the mathematics department, equally serving as a tutorial member of the Faculty of Science. After his degree, Abdullahi proceeded to National Service where he was privileged to work as Teaching Assistant at the University of Benin, Nigeria. During this period, he joined Charity Group (a community development group) involved in helping the needy & less privileged. He eventually became one of the group’s executives, sourcing for funds and donating gifts (in form of food, clothes, textbooks and writing materials) to the motherless babies' homes and equally equipping some high school libraries with textbooks and stationery. After his internship at the Development Bank of Rwanda, Abdullahi recently participated in the workshop on Applied Mathematics at TU Chemnitz Germany – he is working towards becoming an Applied Mathematician and Big Data expert.

John Bagiliko
GHANA
Co-op Scholar
Born in Tamale, John's childhood dream was to become a university lecturer of mathematics. After completing Senior High School as a general science student, he taught mathematics for one year in Junior High School while organizing extra classes to help some Senior High school final year students to prepare for their exams. John subsequently enrolled in the University for Development Studies in 2013 where he earned a BSc in Mathematics. While in second year of university, he published his first mathematics book for Junior High Schools, “Simple Mathematics Tricks for Junior High Schools”. (ISBN: 978-9988-2-1528-6) and sold over five hundred copies in two weeks. John was also actively involved in the Mathematics Students’ Association where he served as the Public Relations Officer and the Debate Society of the university as one of the founders (serving as Chief Adjudicator for two years), equally serving as student parliamentarian. John worked at Volkeno Senegal during his co-op work term – he aspires to become a Data Scientist and Web Developer in order to develop real applications to improve user experiences and their interactions with data in real time.
Ishaya Jeremiah Ayock  
**NIGERIA**  
**Co-op Scholar**  
Born in Nigeria, Jeremiah dreamed of becoming a medical doctor. This dream evolved after secondary school, when he started aiming for a career in Electrical or Computer Engineering. He proceeded to study for a Bachelor’s degree in Mathematics at the Bayero University of Kano, with specialization in Oracle/Microsoft sql Database. This was followed by a Master’s in Computational Mathematics. He was a few weeks away from completing this Master’s program when the opportunity from AIMS came calling. Jeremiah had to choose between AIMS Senegal and another opportunity in China – he chose AIMS because of the reputation of the institution. Jeremiah admits that his first weeks at AIMS were not easy – he had to brace himself and learn more about time management, team work and working under pressure. Jeremiah interned at ADN Tech where he worked as a Big Data/BI /Machine Learning Consultant, honing his skills in Hadoop, R, Python, BI tools, Data Warehouse and other Cloud facilities. Jeremiah is working towards becoming an authority in the domain of Big Data.

Richard Mokaya  
**KENYA**  
**Co-op Mastercard Foundation Scholar**  
As a child, Richard loved playing with numbers. He steadily pursued this line of interest and decided to pursue a Bachelor’s degree in Applied Statistics with Information Technology at Maseno University, Kenya. Richard is convinced that this background training in mathematics provided him with the invaluable ability to apply logic, reason, careful quantitative as well as qualitative analysis to his area of specialization, Data Analytics. As a student, he was an active member of the Maseno University Seventh Day Adventist group and was involved in charity events such as visiting neighbouring communities to share the word of God, equally assisting the communities in cleaning, anti-jigger campaigns and treatment, among many other activities. Currently on internship at Borasoft Kenya, Richard aspires to one day stand out as a renowned Data Scientist, as he recognizes the value of data in decision making around the globe.

Racheal Afua Arkorful  
**GHANA**  
**Co-op Scholar**  
Born in Accra Ghana, Rachael grew up with a childhood dream of becoming a medical doctor. This passion made her pursue General Science in high school, after which she enrolled in the University for Development Studies where she earned a Bachelor’s degree in Actuarial Science. During her undergraduate studies, Rachael was actively involved in the Apostolic Church of Ghana Students and Associates as the General Secretary elect, participating in voluntary activities, visiting some towns in the Northern part of Ghana where donations were made to the less privileged. Rachael is currently completing the Co-op program at AIMS-Senegal, after her work term at Firefly Media. She aspires to become an Investment Analyst, to use data science and analytical skills to understand and make predictions in the financial market.

Dina Faneva Andriantsiory  
**MADAGASCAR**  
**Co-op Scholar**  
Born in Ambararatabe, Madagascar, Dina had a knack for mathematics and its applications, with a keen interest in computer science. He proceeded to glean a Master’s in Applied Mathematics from the University of Antananarivo, with specialization in major deviations and applied algebra.  
During this period, Dina served as the Secretary General of the Association of Mathematics and Computer Science students of Antananarivo, where he got to interact with many students, eventually hearing about AIMS. The Co-op program at AIMS has helped Dina grow as a scientist and as a person. After finishing his internship at the Université Paris 13, Dina wants to pursue a doctorate in the field of Data Science and Artificial Intelligence.
Francis Anokye
GHANA
Co-op Scholar
Francis Anokye enjoyed a childhood of peace and stability in Ghana, in contrast to his parents who had grown up amidst the hard way of life due to several threats of political instability. He had his basic education at the Queen Egyimah International School in Obuasi, where his passion for science and mathematics were originally initiated. After pursuing his senior high school education in general science at the Opoku Ware School, he proceeded to the Kwame Nkrumah University of Science and Technology, where he earned a Bachelor of Science in Mathematics, equally participating in several of his department’s outreach programs to high schools. Through the AIMS Co-op Master’s Program, Francis has finally discovered himself. He has found a new love in science, specifically Big Data. After completing his Co-op internship at Seysoo Senegal, Francis aspires to become a Data Scientist in order to become one of Africa’s problem solvers.

Emmanuel Arize
GHANA
Co-op Scholar
After completing a science-centered secondary education, Emmanuel proceeded to glean a BSc in Mathematical Science from the University for Development Studies, Ghana in 2016. During his undergraduate studies, he had a one month internship with the statistical department of St. Martin de Porres hospital, followed by another one month internship with the Ghana national gas company, in order to gain hands-on professional experience. On campus, Emmanuel was a member of the Legion of Mary group for three consecutive years, where he was involved in hospital and orphanage visits every month, equally participating in similar activities as a member of the Nzema Students Association. Emmanuel who interned at Seysoo Senegal aspires to become a Data Scientist and Android developer, to facilitate access to information through the use of data.

Oladimeji Samuel Sowole
NIGERIA
Co-op Scholar
Born and raised in Nigeria, Samuel’s passion for mathematics can be traced back to his elementary school, where he always came first in every inter-class mathematics competition. This continued till his secondary school days where he represented his school at inter-school debates and competitions at the local, state and national levels. He enrolled at the prestigious Lagos State University, where he graduated top of his class with a Bachelor of Science in Mathematics. While on internship at Seysoo Senegal, Samuel used Deep Learning to detect fraud in medical insurance claims in the country. Also enthusiastic about Mathematical Epidemiological Modelling of infectious diseases for the control of contagious diseases (his Master’s research), Samuel’s aspiration is to become a leading Data Scientist in Africa, to use interdisciplinary approaches, combining knowledge from Applied Mathematics, Computer Science and Data Mining to solve real-life problems.

Genevieve Naana Mensah
GHANA
Co-op Mastercard Foundation Scholar
Born in Ojo, a town in the Lagos State of Nigeria, Genevieve grew up with a passion for industrial mathematics. In order to pursue her passion, she enrolled into the BSc Mathematics degree program at the University of Mines and Technology, Tarkwa, Ghana. After her undergraduate studies, she undertook her national service at Abosso GoldFields Limited – a renowned mining company, as a Human Resource Assistant. During her national service aside her daily activities, Genevieve was actively involved in rendering voluntary community services including testing, screening, counselling and awareness campaigns on HIV/AIDS, Breast Cancer, Hepatitis B, Prostate Cancer and Tuberculosis. She has also participated in the cleaning of hospitals, prisons, and orphanages in Ghana and Senegal. Genevieve who carried out her internship at Alpha Power Ventures Ltd Ghana aspires to become a Data Analyst, to solve the compounding industrial and community problems in Ghana and Africa at large.
Meet our 2018/2019 Cohort!

Onyekachi Joy Agwu  
NIGERIA  
Co-op Mastercard Foundation Scholar  
Born in Nigeria, Joy grew up with a passion for Mathematics-related courses. After a science-centred high school education, she enrolled in the Michael Okpara University of Agriculture, Nigeria, where she earned a BSc. in Statistics. During her National youth service year, Joy was actively involved in Project REVAMP (Reviving Educational Values and Maximizing Potentials), where she participated in initiatives to help improve the educational standard and raise young leaders from secondary schools. Joy aspires to become a Data / Financial Analyst. She also has a keen interest in Operational Research in order to make breakthrough discoveries and provide objective information to solve complex global challenges. With the ambition to one day become the president of a global financial institution, Joy aspires to start an NGO to cater to the social welfare of orphans, less privileged and the aged.

Khalifa Ababacar Badiane  
SENEGAL  
Co-op Mastercard Foundation Scholar  
Khalifa was born in Bambey in the region of Diourbel where he would spend much of his school curriculum. Orphaned by the father at the age of 8, he continued his studies in science and passed the baccalaureate in 2011. Fascinated by mathematics, he enrolled in the first year of Mathematics, Physics, Chemistry and Computer Science at the University of Bambey. After two years of training, he specialized in statistics and decision-making computing where he obtained a Master’s. During this course, he was awarded twice at the ceremony of excellence. Thereafter he enrolled for a M.Sc. in Computer Engineering (modelization and simulation of complex systems) at the Ecole Supérieur Polytechnique, Dakar, where he graduated in 2018. During his studies, Khalifa was actively involved in the Bambey students’ association, where he participated in the organisation of holiday classes for high school students. He also participated in tutoring with the information and orientation office of the University of Bambey, which awarded him a Diploma of recognition. Khalifa aspires to explore the field of Data Analysis – this training will allow him to have the opportunity to work with major international agencies, specifically in the humanitarian sector, in order to facilitate policies of crisis exits or social protection.

Bismark Boadu  
GHANA  
Taught Scholar  
Born in Ghana, Bismark Boadu grew up with a passion in mathematics. After pursuing his high school studies in science (Physics, Chemistry, Biology and Additional Maths), he enrolled in the University of Mines and Technology where he earned a BSc. in Mathematics. During his undergraduate studies, Bismark was actively involved in the mathematics club where he participated in an outreach program, where they talked to students about the importance of mathematics, in an effort to reduce the failure rate in mathematics and also help orientate students towards known career prospects in mathematics. Bismark aspires to becoming a Researcher and a Lecturer in Financial Mathematics and equally lend his expertise to market analysis and the construction of data-backed financial models.
Mouhamadou de Gaulle Bodiang
SENEGAL
Taught Mastercard Foundation Scholar
Born in the Kolda region of Senegal, Mouhamadou dreamed of becoming an airplane pilot. His dad told him that he had to do a scientific series and especially be grounded in mathematics in order to realize his dream – hence was born his passion for mathematics. He enrolled at the University of Bamby (Mathematics-Physics-Chemistry-Computer Science where he obtained a Bachelor of Mathematics in 2014. In 2016, he obtained a Master’s in Applied Mathematics from UCAD with specialization in Probability-Statistics and in 2017 he obtained a second Master’s in Modelization and Information Processing at the Ecole Supérieure Polytechnique, Dakar.

Mouhamadou has served as tutor at the Virtual University of Senegal, as well as the Nelson Mandela University, Dakar. During his undergraduate studies, he served as class delegate and equally Chairman of the Sports Commission in his faculty. He is equally actively involved in the association of students from Kolda where he holds the position of Vice-President of the Commission of scientific animations. He aspires to a career as a mathematics researcher in hopes of working with the Ministry of Higher Education to revolutionize the educational system of his country.

Ibrahim Dan Dije
NIGER
Taught Mastercard Foundation Scholar
The son of a teacher, Ibrahim grew up with two habits: searching for knowledge in books and asking questions about anything he didn’t understand. After having obtained the Baccalaureate in Mathematics, Physics and chemistry, he enrolled at the University of Niamey-Niger, where he obtained his bachelor’s degree in Mathematics and Computer Science. He subsequently enrolled for a Master’s in the same discipline, with specialization in fundamental and applied Computer Science, where he began research on the topic « optimisation des problèmes convexes non partout différentiable ». Throughout his studies, Ibrahim participated in many extracurricular activities such as student assistance (tutoring), participation in the World Science Day for Peace and Development, as well as participation in the scientific games programming competition. He was equally a member of the Student Club of the Department of Mathematics and Computer Science, through which he participated in several conferences, blood donation, and Fine Art endeavours.

Mansour Dia
SENEGAL
Co-op Scholar
Born in Guédiawaye, in the Dakar suburb of Senegal, Mansour grew up with a passion for science. After pursuing secondary education studies in science, he enrolled in the Faculty of Science and Technology of UCAD, obtaining a Bachelor’s in Physics and Chemistry (material sciences). He went on to pursue a Master’s of Engineering in Electronics and Telecommunications from UGB. Convinced that education and training are essential pillars to collective development and personal achievement, Mansour offered capacity building classes to the youths of his neighbourhood during vacations. He aspires to become Data Scientist, with an ambition to position himself as a leader in ICT solutions in Senegal.

Madiou Diene
SENEGAL
Taught Mastercard Foundation Scholar
Madiou grew up with the dream of being among the greatest mathematicians in the world. He enrolled at UGB where he obtained a Bachelor’s in Applied Mathematics, followed by a Master I in Algebra and Applications. As a student, he was involved in the mathematics club of the faculty. He served as assistant Secretary General and subsequently Chairman of the Restoration Commission of the great religious structure of the Mouride community.

Madiou aims to become a major Algebraist, specialising in coding theory to work on the computer security of large companies, especially banks.
Cheikh Tidiane Diop
SENEGAL
Taught Scholar

Born in Senegal, Cheikh completed his secondary education in Dakar, where he was oriented towards a scientific series due to his mathematical competencies. He went on to obtain a Bachelor’s degree in Applied Mathematics from UGB in 2017. Passionate about probability and statistics, he obtained a Master’s I in Mathematical Modelling and Stochastic Calculus, after which he was selected at AIMS.

By integrating AIMS, he hopes to have quality training and opportunities that will enable him obtain positions of high scientific and technical competence, to participate in innovative projects in the areas of probability and statistics.

Sokhna Faatim Laye Diop
SENEGAL
Taught Mastercard Foundation Scholar

Born in Senegal, Faatim grew up with scientific parents, both professors of mathematics. She became passionate about the subject at an early age after understanding that the discipline is at the centre of all sciences. She obtained a scholarship which enabled her obtain a Bachelor’s degree in Mathematics from the Université Ibn Tofail de Kenitra in Morocco, coming out top of her class. After returning to Senegal, she obtained a professional Master’s in Civil Engineering from Batisup Dakar, then worked for two years as a teacher. Her passion for mathematics prompted her to apply to AIMS Senegal where she was accepted. She came back more determined than ever to continue her studies in mathematics, specifically in Geometry. Faatim would like to wake up every day to discover a little more about the magic of mathematics and subsequently work in research, in order to nourish her passion and continue teaching in a bid to transmit the passion for mathematics to the next generation.

Serigne Abdoul Aziz Drame
SENÉGAL
Taught Mastercard Foundation Scholar

Born in the Senegal district of Diamaguene, Abdoul has always been preoccupied by the development of his community and Africa at large.

He went on to enrol at the Faculty of Science and Technology at UCAD, culminating with a Bachelor’s degree in Mathematics, Physics and Computer Science. Abdoul took his studies a notch further by applying for a Master’s in Pure Mathematics, with specialization in Geometry and Applications, where he wrote a dissertation in Algebraic Topology. After AIMS, he intends to pursue a career in research, specifically in differential geometry.

Joana Ewuntomah
GHANA
Co-op Scholar

Joana is a self-described astute and motivated millennial. While growing up, she witnessed computers and technology transform the world in diverse ways, thereby informing her predilection for computer science and programming. After attending Tamale Senior High School where she studied General Science, she then pursued a two year diploma program in Computer Science which catapulted her a step further to achieving her dreams. She currently holds a Bachelor’s Degree in Computer science from the University for Development Studies-Tamale with much interest in Data Structures and AI. Her dissertation sought to create an algorithm to process criminal forensic data for the purpose of digital investigation/policing for the Ghana Police Service. Away from computers, she is a formidable chorister, an immutable fan of FC Bayern and an Amnesty international advocate. She loves to travel and sing. With the kind of knowledge and skills AIMS provides, she wants to become an academic and a consultant, identifying business problems that need to be solved with IT and equally create a prolific internet community that can deliver income growth and innovative services across Ghana and Africa as a whole.
Ndeye Anta Gueye
SENEGAL
Co-op Scholar
Anta was born in Méckhé Village in Thiès, precisely in Meouane. Under the watchful mentorship of her father, a mathematician, Anta’s love for math and science in general was cemented at an early stage. She attended secondary school in Méckhé where she obtained a BAC in experimental science. She went on to obtain a Bachelor’s degree in Mathematics and Computer Science at UCAD in 2014, after which she integrated the Laboratoire d’Algèbre de Cryptologie de Géométrique Algébrique et Application (L.A.C.G.A.A), where she obtained a Master’s degree in Fundamental Algebra. Currently enrolled in the Co-op program, she is working towards a career in Big Data.

Abiodoun Clément Hounkpevi
BENIN
Co-op Scholar
Throughout his secondary education, Clément demonstrated strong aptitude in mathematics, sparking an early interest in artificial Intelligence, Big data, and telecommunications. After high school, he enrolled at the University of Abomey-Calavi where he obtained a degree in Computer Engineering and Telecommunications, while simultaneously following undergraduate courses in Fundamental Mathematics. As a university student, Clément was actively involved in the manufacturing and electronics clubs, an avenue for the honing of his engineering skills. He has a dream of contributing to the evolution of Africa by setting up an industry for the production of telecommunications equipment in Africa. Clément is working towards a career as a Data Engineer with some focus on network security.

Ariel Ghislain Kemogne Kamdoum
CAMEROON
Taught Mastercard Foundation Scholar
In 2012, Ghislain enrolled at the University of Dschang, to pursue a Bachelor’s degree in Mathematics and Computer Science. He subsequently gleaned a Master’s degree in Mathematics with specialization in Algebra. During his Master’s research, he developed a technique to solve the problem of movement planning in robotics via the construction of an algorithm, which was tested by several companies. When he is not solving mathematical problems, Ghislain’s favorite pastime is classical music. Together with his church group, he regularly visited the prisoners and orphans around the parish locality. He intends to pursue a career in research to be able to come up with findings relevant to the development of the continent.

Damaris Syokau Kilango
KENYA
Co-op Mastercard Foundation Scholar
Damaris is a native of Kenya. She grew up with a passion for numbers. Her dream has always been to pursue Mathematics at higher education levels and employ the tools learnt in developing proficiency in data analysis. Damaris received her Bachelor of Arts Degree in Mathematics and Economics from the University of Nairobi in 2016. From July, 2017 to August, 2018, Damaris was working as a Management Trainee at Pack Ingredients E.A Ltd, a manufacturing company in Kenya, where she served as production personnel, equally performing key accounts management roles in the Finance Department. Her keen focus on community development has led her to a number of volunteer opportunities and community leadership roles. Damaris wants to become a Data Scientist in the near future. She is working on developing strategies to solve the problems in Africa through the use of analytic models.
Karim Mache Ramiyou  
CAMEROON  
Co-op Mastercard Foundation Scholar  
Karim spent his secondary school years honing his skills in mathematics and equally participating in community endeavours; he was a member of the Club des Amies de la Nature where they actively planted trees to fight global warming. He later on gained admission into the University of Yaoundé I where he obtained a Bachelor’s degree in Mathematics and Computer Science, closely followed by a Master’s in Mathematical Analysis (all but defense). During his studies at the university, he was a member of several groups such as the Association of students of the Faculty of Science and the Youths of Kouoptamo, where they frequently organized capacity building classes and facilitated the orientation of new students. At the same time, Karim was a teacher at the Collège de la Paix and the Franco-Arab Fondation Nana Boubia, where he taught mathematics for over four years. Currently serving as student delegate at AIMS Senegal, Karim aspires to become a Data Scientist.

Irene Muia  
KENYA  
Taught Mastercard Foundation Scholar  
Irene is a self-driven, motivated lady who is very passionate about financial mathematics. Upon completing her secondary level education and excelling in mathematics, she enrolled for a Bachelor's degree course in Actuarial Science at the University of Nairobi, were she discovered her growing interest for finance and statistical analysis. She played an active role within the Nairobi Association of Student Actuaries (NASA), a club whose major initiative was not only to promote awareness in the actuarial field but also to actively engage in community work and proactively participate in seeking solutions to address economic issues faced in the country. She chaired various projects within the university, mostly analyzing the monetary policies put in place by the government and their economic repercussions with extensive application of mathematical models. As a result of her devotion to understand more about financial markets and the factors in play, she has volunteered for various financial institutions and acquired immeasurable knowledge in the domain. She is hopeful that the opportunity to further her Master’s education at AIMS will bring her closer to her dream of becoming one of the best Financial Analysts in Africa.

Janet Mumo Mutuku  
KENYA  
Co-op Mastercard Foundation Scholar  
Born in Kenya, Janet developed an ardent interest in mathematics since her formative stages of growth. After graduating from high school, she joined the University of Eldoret and earned a BSc. in Actuarial Science. Her interest in volunteer work and helping the elderly and the sick led her to hold the position of Christian Union Chairperson in her high school, she engaged the students in Christian activities, tree planting and created a mathematics club. In the university, she volunteered at the Christian Union as Bible study committee member and pastor. She equally served as the Vice Chairperson and Chairperson of the University of Eldoret Actuarial Science Association for two years and one year respectively, subsequently serving as the Corporate Affairs Secretary of Actuarial Students Society of Kenya (ASSK) for one year. She is currently one of the AIMS 2018/2019 students’ delegates. Janet aspires to be a Data Analyst and an Actuary with invincible analytical skills in order to facilitate access of information for future planning, promote psychological, physical and financial stability in the society, apply mathematical and statistical methods to assess risks in insurance, finance and other industries and serve Africa in confronting risks and averting losses through policy making.
Emmanuel Ndahimana  
**RWANDA**

*Co-op Scholar*

As a little boy, Emmanuel nursed the dream of becoming a Doctor and quickly developed keen interest in the sciences. At the end of his high school studies, he participated in a competition organized by the Korea International Cooperation Agency (KOICA) and the Ministry of Education, where he finished in second position. He earned a degree in Mathematics from the University of Rwanda, after which he interned at the Rwanda Stock Exchange where he gained hands-on experience in financial mathematics, especially in shares, bonds and trading markets. Emmanuel has the ambition of creating a research centre for mathematical and practical discovery while pursuing a career as a Data Scientist in the finance domain.

Matar Ndongo  
**SENEGAL**

*Co-op Scholar*

Matar studied experimental sciences in secondary school, after which he enrolled at the Bamby University, where he obtained a professional degree in Statistics and Business Intelligence. Subsequently, he enrolled for a professional Master’s at the Ecole Supérieure Polytechnique in Dakar where he focused on data modelling and processing. Matar has interned with companies such as ANSD, SENELEC and ADN Tech, working predominantly in the field of Business Intelligence. He is working towards a career in Data Science, with the ambition of processing big data to help companies in analysis and decision making.

Mor Ngom  
**SENEGAL**

*Taught Mastercard Foundation Scholar*

Mor grew up with a passion for explaining and teaching sciences, particularly Mathematics. After pursuing high school studies in the sciences, he enrolled in UCAD where he earned a BSc. and subsequently a Master’s 1 in Pure and applied Mathematics. By demonstrating deep skills in Mathematics, Mor was accepted by the International Centre for Theoretical Physics (ICTP) to attend the postgraduate diploma program in 2017. During his undergraduate studies, Mor was actively involved in the student coordination association of his town to assist students in high schools and universities with capacity building in mathematics. Mor aspires to become a researcher in Riemannian Geometry and Applications in order to participate actively to the development of this field in Africa, while facilitating access to Mathematics for students with difficulties.

Moussa Ngom  
**SENEGAL**

*Taught Mastercard Foundation Scholar*

Born in Senegal, Moussa grew up with a passion for mathematics. After a science-centred secondary education in Diourbel, he gained admission into UCAD where he obtained a Bachelor’s degree in Mathematics, Physics and Computer Science, followed by a Master’s in the same discipline in April 2018. Moussa considers leaders to be motivated individuals, capable of handling group dynamics, adapt to and bring about change. He served as secretary of an association of students from his native Diourbel where he supported students during the orientation phase – the group equally enlisted the support of the Mayor who provided temporary accommodation for some students in need. He aspires to a career as a university professor of mathematics to impart knowledge on future generations.
Olyne Niyomwungere
BURUNDI
Co-op Scholar
Olyne grew up with the conviction that mathematics is an important factor in life. After her high school studies, she got a diploma in methods of teaching. Soon after, she succeeded in an examination that granted her admission into the University of Burundi where she earned a Bachelor’s degree in Physical Sciences at the Faculty of Sciences. During her undergraduate studies, she was actively involved in the Rumuri Club, where she participated in playing handball. After her degree, she worked as a math teacher and study prefect at a private school. Olyne applied to AIMS to benefit from the diversity of trainings and international lecturers. She aspires to a career in Computer Security and Big Data.

Lionel Sedar Noutegne Tcheup
CAMEROON
Co-op Mastercard Foundation Scholar
As a little boy, Lionel was passionate about automatism and robotics – he was naturally drawn to science fiction documentaries. He loved football but had to give up his passion along the line when he lost his right arm in an accident. He later enrolled at the University of Douala, Cameroon where he pursued a Bachelor’s degree in Mathematics and Computer Science, followed by a Master’s in Fundamental Computer Science, specifically in web mining. As a student in Douala he was a member of the Computer Club where he engaged in tech advocacy within the student community. Lionel is working towards becoming a Data scientist and plans on working predominantly with the modelling theory.

Charles Chinedu Nworu
NIGERIA
Co-op Scholar
Charles grew up with a passion for Mathematics and teaching. After pursuing high school studies in science, he enrolled in Michael Okpara University of Agriculture, Nigeria where he earned a BSc. in Statistics. During his undergraduate studies, Charles was actively involved in the data science club where he participated in using statistical packages to identify hidden patterns in a large dataset. Currently, undergoing the Co-op program at AIMS, Charles aspires to become a Data Scientist and a researcher in machine learning in order to combine his domain expertise and data science skills to make more agile and evidence-based decision-making to solve Africa’s problems.

Patience Ulrich Obambi-Itou
CONGO REPUBLIC
Co-op Scholar
Ulrich has always been passionate about numbers. He enrolled for a Bachelor’s degree in Mathematics and Physics at the Marien Ngouabi University of Congo. In the third year, he passed the entrance examination into the Institut Africain d’Informatique, where he earned a diploma as a programmer in 2012, followed by another diploma as an IT Engineer in 2015, after which he engaged in Master’s research in the conception of information systems.

Throughout his academic career, he has been active in various volunteer activities, serving as peer educator and facilitator at a computer training centre. Ulrich is determined to become a major player in the field of Data Analysis in Africa, with the goal of creating jobs and facilitating access to IT training for all.
Nneka Okolo
NIGERIA
Co-op Mastercard Foundation Scholar
Nneka grew up with an interest in mathematics and its vast applications, particularly in the analysis of nonlinear systems which reflect the way the universe works. She enrolled in the University of Benin, Nigeria where she earned a BSc. in Applied Mathematics. As an undergraduate, with a zeal to learn, improve her skills and impact on her immediate community, Nneka was actively involved in Tech workshops and tutoring alongside her academic work. Nneka aspires to become a Financial Analyst in order to provide accurate financial solutions to SMEs and larger organizations in Nigeria and abroad. She believes that her career choice, which is inspired by the negative effect of the increasing unemployment rate in Nigeria, will encourage start-ups, create jobs and ultimately contribute to economic growth.

Eunice Monyenye Omwoyo
KENYA
Taught Mastercard Foundation Scholar
Eunice’s childhood dream was to become a scientist. She was especially passionate about mathematics and physics. After high school, she enrolled for her undergraduate studies at the University of Nairobi where she earned a B.Ed in Mathematics and Physics. During her undergraduate studies Eunice was actively involved in campaigning against female genital mutilation and early marriages for young girls in her community. She is a member of the Supernova Foundation, currently a mentee and looking forward to evolving to the position of mentor in order to impact young girls. Eunice wants to pursue a career in academia, as a researcher in cosmology, fuelled by her passion for the universe.

Ousman Hamit Hassani
CHAD
Co-op Scholar
Ousman has always been passionate about electronics, robots and video games. This passion led him to enroll at UGB, where he obtained a Master’s in Computer Science. During his undergraduate studies, he was actively involved in martial arts clubs, especially Vietnamese martial arts. In addition, he was a member of the association of Chadian students at UGB where he participated in initiatives to welcome and orientate new students such as delivering capacity building and catch-up classes. As a secondary school student, he was a volunteer in the fight against violence in schools in Chad, under the framework of the Association pour la Promotion des Libertés Fondamentales au Tchad.

Ousman aspires to become a Data Scientist/Engineer to propose optimal digital solutions, to facilitate access to information and fight against poverty.

Félicien Lulihoshi Rafiki
DEMOCRATIC REPUBLIC OF CONGO
Taught Scholar
Félicien grew up with a penchant for science in general and mathematics in particular, with a keen interest in Fundamental Mathematics and teaching. After his secondary education, he got enrolled at the Institut Supérieur Pédagogique de Bukavu (Eastern DRC) where he obtained a Bachelor’s degree in Applied Pedagogy, Mathematics in 2015. Subsequently, he served as a math teacher at a secondary school for two years, before getting a job as teaching assistant at the Institut Supérieur Pédagogique de Bukavu. Before gaining admission into AIMS Senegal, he enrolled for a Master’s degree in Mathematical Sciences at the University of Namurin, Belgium in 2017.

Félicien wants to become a researcher and trainer in mathematics in order to promote the education of young people across Africa.
Nantenaina Milliarde Randrianasolo
MADAGASCAR
Taught Mastercard Foundation Scholar
As a little girl, Nantenaina was always ready to take up the challenge of math riddles under the watchful eyes of her father, a math teacher. She curiously consulted his math manuals, even though she understood little about the subject at the time. She studied at the Ecole Supérieure Polytechnique in Antananarivo, after a highly competitive entrance exam, where she obtained a Master’s in Civil Engineering. As a student in Madagascar, she was a member of the English club where they taught each other the language. She aspires to a career in academia, as a professor of mathematics and engineering with an ambition to discover mathematical laws and theories and equally create machines and software relevant to the domain of engineering.

Sara Saad
SUDAN
Taught Mastercard Foundation Scholar
Sara graduated from the Faculty of Science and Technology at the Neelain University with a degree in Physics. Her project focused on the study of the crystal structure of doped and un-doped single perovskite (BaSnO3) using quantum espresso. She subsequently began her Master’s research on solid state material, completing the first term before gaining admission into AIMS. She aspires to continue in domain of Computational Physics and acquire more knowledge in programming language.

Aliou Badra Sarr
SENEGAL
Co-op Scholar
Aliou joined the Virtual University of Senegal for a Bachelor’s degree in Applied Mathematics and Computer Science, closely followed by a Master’s in Systems, Networks and Virtual Infrastructures, while serving as monitor at the same University. In parallel with his studies, he developed entrepreneurial skills with the help of the Synapse Centre Thiès, which offered him 10 months of incubation through the “TAGG ATT” program. Aliou was equally a 2017 laureate of the community service challenge organized by the Virtual University of Senegal, where he won the sum of 500 000FCFA to coordinate and develop the Jembet Jarigno project. He was elected, twice in a row as the President of the association of students from MAI ENO Thiès, where he participated in collective development activities. After his training at AIMS, he wants to work in the domain of Computer Security, specifically cybercrimes, while equally investing in the domain of agriculture, towards the development of the continent.

Ibrahim Sawadogo
BURKINA-FASO
Co-op Mastercard Foundation Scholar
Born in Ivory Coast, Ibrahim discovered his passion for mathematics in primary school. After his high school, he joined the Université Prof Joseph Ki Zerbo Ouaga 1 in Burkina-Faso where he earned a Bachelor’s degree in Pure Mathematics. During his undergraduate studies, he was introduced to Computer Science and became thrilled by artificial intelligence. In 2016, he got an African Union Scholarship to study for a Master’s in Mathematics (Statistics) at the Pan African University in Kenya. From 2009-2016 he was actively involved in a mentorship program within the Muslim students’ community (AEEMB) in Burkina Faso. Currently undergoing the Co-op program at AIMS, Ibrahim aspires to become an outstanding Data Scientist in order to apply big data analytical knowledge and skills in the agriculture sector to explain behaviors and predict events to help avoid crises faced on the continent.
Khadim Sène
SENEGAL
Co-op Scholar
Born in Thiès, Senegal, Khadim grew up with a passion for mathematics, as well as collective community activities. He enrolled at the University of Thiès, where he obtained a Bachelor’s degree in Mathematics and Computer Science, followed by a Master’s degree in Probability and Statistics. During his graduate studies, he was actively involved in initiatives for recycling plastic objects, as well as reforestation endeavors with the aim of combating deforestation and soil degradation.

He has equally served as President and Vice-President of the Association des Jeunes de KeuryKao where he led and participated in community work. Khadim is working towards a career as a Data Scientist to be able to analyse data from multiple sources and decipher information that would be useful for the advancement of the continent.

Ornella Lucrese Soh
CAMEROON
Taught Mastercard Foundation Scholar
Born in Cameroon, Ornella grew up with a passion for math and computer science. She registered at the University of Douala, where she obtained a Bachelor’s degree in Mathematics and Computer Science, followed by a Master’s in Computer Science obtained from the University of Yaoundé I. To Ornella, AIMS was the logical next step to consolidate her knowledge in Big Data. She aspires to a career as a Data Scientist – one of the key problems she intends to address, is that of long queues in Africa. She intends to capitalize on digitalizing services as part of the solution to this problem.

Mohamed Soueilim
MAURITANIA
Co-op Scholar
Driven by his passion for mathematics and computer science, Mohamed enrolled at UCAD for a Bachelor’s degree in Mathematics. As an under graduate student, he was actively involved in extracurricular activities organized by the association of Mauritanian students, which predominantly involved orientation of freshmen and capacity building. He aspires to a career as a Computer Security engineer to strive for the protection of information and the establishment of inclusive organizations at all levels.

Mohamed Sylla
CÔTE D’IVOIRE
Co-op Mastercard Foundation Scholar
Mohamed was drawn to mathematics and artificial intelligence at a pretty early stage. He went on to attend the Nangui Abrogoua University in Côte d’Ivoire, where he obtained a Bachelor’s degree in Mathematics and Computer Science, followed by a Master’s I in Computer Engineering. He actively participated in research at the Institut de Recherche des Énergies Nouvelles, an initiative conceived to fight against global warming. In addition to being one of the class delegates of the 2018 cohort at AIMS, in his previous university, he created a group to compete at a Hackathon, emerging in third position. He has equally worked on a project to make medical history available in a database online to spare patients the trouble of moving around with hospital books. Mohamed equally created an app to track student performance and grant access to parents – this was commissioned by GlobalAeit.com a web developing company where he interned. He intends to pursue a career in IT, Data Security and Cryptography.
Cheikh Mamadou Mbacke Thiaw  
**SENEGAL**  
*Co-op Scholar*

Cheikh’s love for math was greatly influenced by an American detective series called The Number, based on the modelling of mathematical phenomena. He was admitted at the Virtual University of Senegal where he obtained a Bachelor’s degree in Applied Mathematics. He actively participated in delivering capacity building classes to secondary school students during the holidays. Cheikh wants to become a Data Analyst to help African companies transform their data into profitable ventures. He hopes to one day create a centre of excellence for secondary school students in Bambey.

Tony Tona Landu  
**DEMOCRATIC REPUBLIC OF CONGO**  
*Co-op Scholar*

Tony obtained his Bachelor’s degree in Applied Mathematics from the University of Kinshasa in 2014, with his research focused on the topic “Evaluation des Options en l’absence d’opportunité d’Arbitrage. Cas d’une Option Européenne”. After graduating from the university, he completed several internships and post graduate courses in the fields of monitoring, management and evaluation of projects, as well as OHADA accounting. Tony is interested in working in the field of Financial Mathematics, with the goal of getting the credentials to evaluate financial portfolios of organizations, analysing and interpreting data for the benefit of companies in Africa.

Tawa Iretiola Yusuf  
**NIGERIA**  
*Co-op Mastercard Foundation Scholar*

Tawa grew up with a passion for challenging dilemmas and analyzing finances which (incomes and expenditures), which enhanced her love for Mathematics.

After graduating from high school where she studied in the science class, she gained admission into Ekiti State University, where she earned a BSc. in Mathematics Science. During her Undergraduate studies, Tawa was involved in the Student Representative Council where she eventually became the Vice-President of the National Association of Mathematics Students of Nigeria, Ekiti State Chapter and thus participated in representing the student body and helping them achieve their goals through talks and motivational speeches while in the pursuit of academics.

Currently undergoing the Co-op program at AIMS, she aspires to become a Financial Analyst in order to give a mathematical perspective on the valuation of financial instruments and present the mathematical modelling of financial markets in all areas of human existence, as life itself is built on finance.

Dieudonné Zirhumanana Balike  
**DEMOCRATIC REPUBLIC OF CONGO**  
*Taught Mastercard Foundation Scholar*

Dieudonné discovered his passion for science while he was a secondary school student. As soon as he obtained his state diploma, he was recruited as a teacher at the EP Tutimize in 2007 and became, at age 20, the youngest teacher to integrate this establishment where he served as a teacher until 2011. He went on to enrol at the Institut Supérieur Pédagogique de Bukavu, where he obtained a Bachelor’s degree in Applied Mathematics in 2016. This same year, he joined the l’École d’application de l’ISP/Bukavu (EDAP/ISP) as a part-time math teacher. His passion led him to create an association for the training of math teachers in Kabare (South Kivu).

Dieudonné has participated in several math symposiums, the most recent being one organized by the University of Burundi in partnership with the Centre International des Mathématiques Pures et Appliquées (CIMPA).

Dieudonné dreams of becoming a university professor and intends to set up a research centre in mathematics to train young people who are passionate about mathematics in his country and the great lakes region in particular.
Testimonials
Win a Scholarship @

AIMS
African Institute for Mathematical Sciences
SENEGAL

You have:
• a Bachelor’s degree (4 years) or a Master’s
• your degree is in mathematics, Physics, Computer Science or any relevant STEM field

Wait no more! Apply for the AIMS Master’s in Mathematics.

From 1st December to 31st March annually, send your CV, letter of motivation, copy of university certificates and transcripts via the “APPLY” menu on: www.aims-senegal.org

The next Einstein will be an African. It could be you!