

Master of Science in Data Science

15 Months | Full-Time Program



LEAD. INSPIRE. TRANSFORM.

ASIAN INSTITUTE OF MANAGEMENT

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ABOITIZ
SCHOOL OF INNOVATION,
TECHNOLOGY, & ENTREPRENEURSHIP



**ASIAN
INSTITUTE OF
MANAGEMENT**

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HISTORY OF AIM

Since it was founded in 1968 by the Harvard Business School Advisory Group as well as academics and business leaders of the Philippines, AIM has been committed to contributing to the growth of Asian businesses and societies by developing professional, entrepreneurial, and socially responsible managers and leaders.





WHAT IS ASITE

The Aboitiz School of Innovation, Technology, & Entrepreneurship (ASITE) is home to four pioneering masters, a PhD program, plus a dual degree undergraduate program which is the first of its kind in the country. The campus also houses the industry-facing Analytics, Computing, and Complex Systems laboratory (ACCeSs@AIM) which is positioned right at the intersection of technology, innovation, and entrepreneurship. ASITE seeks to develop future-ready leaders who thrive in uncertainty and enables them to confidently execute plans that push Industry 4.0 forward.

By co-locating innovators, data scientists, and entrepreneurs, ASITE acts as a catalyst for generating impact, powering innovation, and creating value for society across industries, especially within Asia.



WHY CHOOSE AIM

LEAD. INSPIRE. TRANSFORM.

AIM is a pioneering management school with an immersive, supportive, and practitioner-oriented culture that develops managers, entrepreneurs, and leaders who deliver meaningful growth to Asian businesses and societies.

AIM is one of the first South East Asian business schools and the only one in the Philippines to be accredited by the Association to Advance Collegiate Schools of Business (AACSB). AACSB is a global nonprofit association that connects educators, students, and businesses to foster the development of future leaders. Notably, AACSB accreditation is held to a higher standard than many other accreditation bodies, ensuring excellence in business education and promoting innovation and leadership in the industry.

KEY ELEMENTS OF THE **MSDS DESIGN**

Master of Science in Data Science

Delivering data-driven leaders

The Master of Science in Data Science (MSDS) program is aimed at addressing the needs of data science practitioners. The curriculum, which can be taken full-time in 15 months, was developed by world-class scientists and practitioners to be rigorous and relevant, focusing on the latest techniques, models, and technologies in the field of advanced analytics.

The program equips students with the skills required to formulate appropriate questions and identify the correct data-driven approaches to address a diverse range of business and societal problems. They will have access to AIM's world-class computing facility, the Analytics, Computing, and Complex Systems (ACCeSs@AIM) lab, which allows them to handle, manipulate, and analyze large datasets that facilitate public or private research and development which produce real-world solutions to address business and societal issues.



Relevant and Timely

Designed in collaboration with industry practitioners and covers the latest tools, techniques, and models used in advanced analytics. This ensures that graduates are equipped with the skills and knowledge that are in high demand in the job market.



Leadership focus

Places equal emphasis on developing communication and leadership skills, ensuring graduates are well-rounded and prepared to work in cross-functional teams and communicate data insights to different stakeholders.



Hands-on Learning

Emphasizes hands-on learning through projects, case studies, and real-world applications. This provides students with practical experience, applying their skills to actual industry problems, which is highly valued by employers.

PROGRAM STRUCTURE*

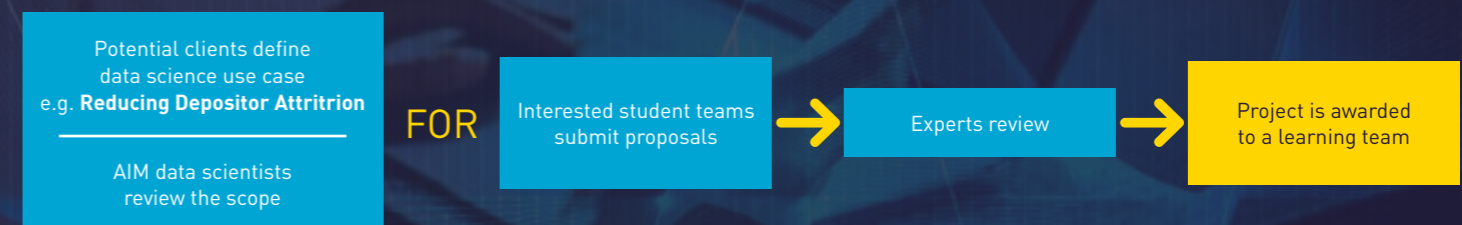
<p>PRE-PROGRAM</p>	<ul style="list-style-type: none"> • Program Registration • Academic Orientations • Non-Academic Orientations • Tutorials • Bootcamp
<p>1st TERM (3 months)</p>	<ul style="list-style-type: none"> • Mathematics for Data Science • Programming for Data Science • Data Science and Ethical AI • Effective Data Visualization and Storytelling • Language of Business and Sustainability
<p>2nd TERM (3 months)</p>	<ul style="list-style-type: none"> • Data Mining and Wrangling 1 • Machine Learning 1 • Applied Computational Statistics • Marketing in the Digital Economy • Designing Tech-Driven Corporate Processes
<p>3rd TERM (3 months)</p>	<ul style="list-style-type: none"> • Data Mining and Wrangling 2 • Machine Learning 2 • Financial Management • Economics of Strategy and Management • Data Science Elective 1
<p>4th TERM (3 months)</p>	<ul style="list-style-type: none"> • Big Data and Cloud Computing • Machine Learning 3 • Innovation Management with Design Thinking • Data Science Elective 2
<p>5th TERM (3 months)</p>	<ul style="list-style-type: none"> • Network Science • Capstone • Leadership and Change Management • Data Science Elective 3

*Subject to change without prior notice

CAPSTONE PROJECT

The MSDS capstone project is one of the key features of the program. It is a culminating activity where students apply the concepts and skills learned from classes in formulating data-driven solutions to current problems faced by companies, organizations, and government agencies. With this project, MSDS students are trained as data science consultants. As part of their training, they work closely with world-class professors, full-time data scientists at ACCeSs@AIM, and domain experts.

TWO-WAY BIDDING SYSTEM



“MSDS Students as junior data science consultants.”

Real business value generated

In 2019, this estimate was at a total of USD10 million for 10 capstone projects. Through the program’s partnerships, MSDS students become data science consultants even while studying. At the same time, the program helps organizations innovate through data science and machine learning.

In 2020, the MSDS program received over 25 real-world use cases from various organizations and enterprises, 15 of which made it to the program portfolio. Partners and stakeholders estimated a total potential revenue of approximately USD40 million from these projects. So far, 55 successful Capstone projects have been conducted by our students.

ACCeSs LAB

The Analytics, Computing, and Complex Systems laboratory (ACCeSs@AIM) is AIM's very own facility that leads and promotes the use of data science, artificial intelligence, and computational models to help industries, government agencies, and other sectors to innovate.

ACCeSs@AIM is home to one of the region's fastest AI super computers with a top speed at 1.2 petaFLOPS. Named "Super Jojie", it has been working non-stop, crunching contact-tracing algorithms that help predict and prevent super spreader events and protect the vulnerable in our society.

Successful Projects

ACCeSs@AIM is responsible for launching a number of successful projects in collaboration with other notable institutions and organizations.

2018

The Asian Institute of Management (AIM), together with electronics corporation Acer, Inc., launched the ACCeSs (Analytics, Computing and Complex Systems) Laboratory, the Philippines' first data science corporate laboratory.

2019

ACCeSs Lab received the 2019 AACSB Innovations That Inspire award for championing industry-government-academia partnerships through research and development "techpreneurship".

ACCeSs Lab received the Times Higher Education award for "Technological Innovation of the Year" and hailed as "exemplary" for the lab's multifaceted approach to engagement within research.

2020

The Department of Science and Technology (DOST), in partnership with Manila Water, Inc. and ACCeSs Lab launched the Enhanced Forecasting Model for Complex Water Supply Systems of the East Service Area of Metro Manila (AI4WM: AI for Water Management).

The Platform for Assessment and Tracking of Urban Related Opportunities, regarded as 1 of 20 flagship projects of DOST in 2020 and is the first SMART city project sponsored by the government, was also launched and completed.

2021

Funded by the Philippine Department of Trade and Industry, Dr. Christopher Monterola and Dr. Erika Fille Legara presented the National AI Roadmap during its official launch.

Project Connect, a data-driven project that aims to improve the contact tracing efforts of its partner LGUs to address the weakest link in the COVID-19 response is launched by the National Economic Development Authority in partnership with the Aboitiz Foundation and ACCeSs Lab.

2022

AI4WM: AI for Water Management was completed.

ACCeSs Lab, in partnership with the Baguio LGU and in cooperation with the University of the Philippines Baguio, launched the first phase of Project MINERVA (Monitoring of INdicators for Efficient Redevelopment and Value Assessment) with a grant from DOST PCIEERD.

Funded by DOST-CRADLE and Qavalo, Inc., ACCeSs Lab launched Project QARE-HHC (Quicker Analytics for Responsive Home Health Care).

Funded by DOST-CRADLE and Qavalo, Inc., ACCeSs Lab launched Project Unistar-ARMAS (Automated Repossessed Motorcycle Assessment System).

2023

Project MINERVA enters its second year of operations and is expected to be completed in the first quarter of 2024.



TOP 3 - 2023 EDUNIVERSAL BEST MASTERS RANKING

Data Analytics in
Far East Asia

TOP 3 IN DATA ANALYTICS

Asian Institute of Management
**Master of Science in
Data Science**

THE TOP 3 DATA SCIENCE PROGRAM

AIM's MSDS program was recognized as the Top 3 program in analytics in Far East Asia by Eduniversal on launch and was consistently on top from 2018 to 2023.

LOCATED IN THE HEART OF ASIA

A melting pot of cultures, Asia, and specifically the Philippines, gives students a rich background in Asian culture coupled with western-style education.

1. Western-style Education with a Focus on Asia

Since the 1940s, the Philippines has adopted Western pedagogical methods in its education system. With AIM's particular emphasis on the Harvard case study method, pursuing a postgraduate degree in the Philippines affords students a fusion of effective and practical approaches with the nuance and insight of Asian traditional business practices providing a diverse and balanced educational approach.

2. Multicultural Learning Environment

Students are exposed to a multicultural learning environment where they can benefit from insights from leading researchers, practitioners, and educators from the world's biggest and most varied continent.

3. English as the Medium of Instruction

English serves as the medium of instruction in institutions in the Philippines. This enables students from Western and Asian backgrounds to effectively communicate and collaborate with each other, enhance cross-cultural exchange, and open doors to global opportunities.

4. Global Recognition and Accreditation

AIM is the first school in the country to be accredited by the Association to Advance Collegiate Schools of Business (AACSB), and it is also a part of the Global Network for Advanced Management (GNAM), an exclusive partnership between 32 international business schools.

5. A Foothold in Asia

Students are provided the opportunity to build a diverse network of contacts from both Western and Asian backgrounds. Connecting with professors, professionals, and fellow students from different cultures and academic disciplines can lead to valuable collaborations, internships, and career opportunities that span international borders.

6. Unique Research Opportunities

Asia offers unique research opportunities for data-driven students. Its geographical location, coupled with a rich social and environmental ecosystem, make it a hub for research and innovation. Students can partake in groundbreaking research projects that address pressing global issues.

Makati: Metro Manila's Business District

Makati is the primary central business district in Metro Manila and one of the major financial and commercial hubs in the Philippines. It is home to many multinational corporations, banks, financial institutions, and other business establishments.

It is also centrally located in Metro Manila, making it easily accessible from different parts of the metro. It has a well-developed transportation infrastructure, including major highways, public buses, and a mass rapid transit (MRT) system.

Students can experience a vibrant cultural and entertainment scene within the city's numerous shopping malls, restaurants, cafes, art galleries, theaters, and museums. Lots of options are available for leisure activities, cultural experiences, and socializing.

Proximity to professionals, industry leaders, and multinational companies in Makati can enhance your career prospects, especially in fields, such as general management, banking and finance, data science, development, innovation, financial technology, cybersecurity, and entrepreneurship. This provides unique networking opportunities to students looking to establish strong connections within the region.

ALUMNI TESTIMONIALS

Kyle Ong, MSDS 2019

Former Lead Data Scientist
Senior Associate, Strategy and Analytics
Ayala Corporation



Before, I would approach business problems from a purely management point of view. Now I see the mathematical rigor needed to answer some problems. Merging those skills together helps us find the maximum business value for the different problems thrown at us.

Norman Lapid, MSDS 2022

Data Scientist at Ayala Corporation

Former Vice President - International Private Banking Operations
PMorgan Chase & Co.



The MS in Data Science program really helped me develop a new way of thinking in terms of how we look at data and how we look at AI models in machine learning. We know that there are a lot of developments in this field and it helped me to be forward-looking, while also examining the different ethical dimensions, the possibilities, and the way it can help organizations progress and move into the future while tapping into vast resources.

Rosely Pena, MSDS 2020

Senior Data Analyst, Canva



I think the combination of the business and the analytical courses in the MSDS program is the recipe for success because understanding the business as well as knowing the data and translating them into actionable insights would be one of the biggest assets a company can have.

ABOUT THE ACADEMIC PROGRAM DIRECTOR



KENNETH T. CO, PhD

Academic Program Director
Master of Science in Data Science

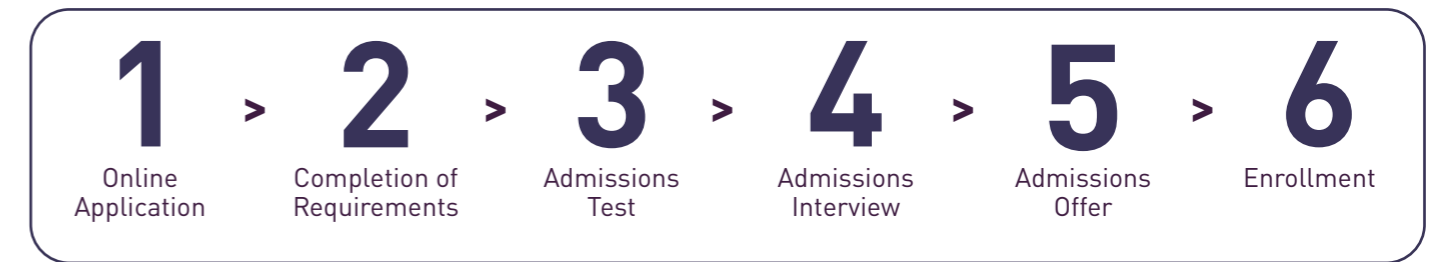
Kenneth T. Co, PhD is an Assistant Professor at the Asian Institute of Management (AIM) and the Academic Program Director of the Master of Science in Data Science (MSDS) full-time program. He specializes in computer vision, trustworthy machine learning, and applying AI in healthcare.

Dr. Co won the 13th Philippine Mathematical Olympiad in 2011 and earned a bronze medal at the 53rd International Mathematical Olympiad in 2012. In 2016, he obtained a Bachelor of Arts and Master of Arts in Mathematics from Johns Hopkins University, receiving the Woodrow Wilson Research Fellowship, the J.J. Sylvester Undergraduate Award, the Naddor Prize, and the Applied Mathematics and Statistics Achievement Award.

Dr. Co completed his Master of Science and PhD in Computing at Imperial College London in 2017 and 2023, focusing on the security and robustness of machine learning algorithms. Before joining AIM, he worked as a research scientist and machine learning consultant in the technology and finance industries in the United Kingdom and the Philippines, leading multiple projects with financial institutions and multinational companies.

ADMISSIONS

Our Student Recruitment and Admissions Team will assist you in applying for the upcoming MSDS Cohort. Email msds@aim.edu or visit asite.aim.edu for more details.



Eligibility Criteria

- Must have a Bachelor's degree (or an equivalent qualification) in any discipline

Application Process

1. Fill out the application form at go.aim.edu/applymsds
2. Send the following documents to msds@aim.edu
 - a. Updated Curriculum Vitae
 - b. A copy of undergraduate Transcript of Academic Records (TOR) or mark sheet
 - c. A professional recommendation or Certificate of Business Registration for self-employed applicants
 - d. A copy of ID page of passport (valid government ID for Filipino applicants)
 - e. Diploma(s)
3. Take the AIM Data Science Qualifying Exam (AIMDSQE) after paying the USD100 application fee.
4. Qualified applicants will undergo an interview with program faculty.
5. The Admissions result will be sent via email or can be accessed through the AIM Portal.
6. To reserve a slot, pay a USD1,000 registration fee, which will be deducted from the total program fee.

Program Fee
USD32,500

Intake
September

FINANCIAL AID

Alumni Promotion

Alumni of the School of Executive Education and Lifelong Learning (SEELL) – formerly the School of Executive Education – will be entitled to 10% off the total program fee.

Alumni of any AIM degree program or their family members to the first degree of consanguinity or affinity will be entitled to 20% off the total program fee.

An applicant who fulfills both criteria will be eligible for a maximum of 20% off.

Loans

Institutional Loan Programs (Applicable to Program Fee Only)

AIM offers two loan programs to help Filipinos and Philippine-based foreigners* focus on their education. Slots are limited in these programs and priority will be given only to qualified early applicants. The maximum loan amount is 80% of the program fee. No collateral is required for the loan program.

1. Study Now, Pay Later: Aboitiz 0% Loan Program

- Repayment Tenure – 3 years to 5 years
- Monthly Amortization – starts 6 months from the scheduled end-date of the program
- Limited slots only

2. AIM Study Loan Program

- Repayment Tenure – 3 years to 5 years
- Monthly Amortization – starts 3 months from the scheduled end-date of the program
- Indicative interest rate of 6%**

Loan Application Requirements

Submit scanned copies of the following documents for applicant and co-maker***

- Certificate of Employment with salary information included
- Income Tax Return or payslip
- Copy of Official Transcript of Records with Cumulative Grade Point Average
- Any valid government ID (passport ID page is preferred)
- Loan Application form

* Depending on employment status

** Subject to change without prior notice

*** Co-maker must have an equal salary to or higher salary than applicant

Scholarships

Scholarships are awarded to applicants who demonstrate excellence in their admission test scores, academics, career experience, innovation potential, leadership, and who exhibit strong AIM values and ideals that champion the AIM brand as a student and future member of the alumni community.

Applicants are eligible for a scholarship only after they have been accepted into the program and upon the evaluation of our scholarship committee. We reserve the right not to award these scholarships if no suitable candidate is identified.

If you have been accepted into the program and fit the criteria above, please contact our recruitment team to apply.

