

◆ Masters in

Data Science

HARBOUR SPACE
INSTITUTE OF TECHNOLOGY

Welcome to Harbour.Space, A Place Where Innovation and Education Meet

With our real-world approach, versatile curriculum and industry leaders as faculty, we create an environment where students thrive. Join our international community of change-makers and leaders of tomorrow!



We've Transformed Traditional Teaching Methods

To ensure that from day one, students are learning and doing only what's necessary for their future careers. No outdated textbooks—just real-world skills and tasks taught by practising professionals. Everything you learn and do in class will prepare you for the work you'll be doing in the real world.



Our Approach

Modules, Not Semesters

Students have 3-week modules, focusing on one subject at a time. This mode is very typical for the tech industry, and students get used to intensive cycles when they study just as they will work. Each module concludes with a real-life project.

+

Practitioners, Not Textbooks

Instead of full-time, academic professors, your teachers will be practising specialists who teach you the skills and insights they apply in their daily work.

The Combination of These 2 Factors Give Way To:

- ◆ Trend-driven curriculum
- ◆ Small sized classes
- ◆ Regular Feedback From Teachers
- ◆ 80% Practice, 20% theory
- ◆ Personalised Study Plan
- ◆ Portfolio Development

Nurturing World Champions in Technology



Harbour.Space Institute’s team, composed of our talented students, stands out as the first in Europe and Spain to achieve such outstanding results, setting a new benchmark for excellence.

We imagine a world where all driven and talented people have the opportunity to reach their full potential, and the achievements of our students demonstrate that we are on the right path.

Harbour.Space programming team has won a gold medal at the International Collegiate Programming Contest (ICPC) World Finals in Luxor, Egypt, outperforming institutional giants like Stanford, MIT, Cambridge, and Oxford.

The ICPC is a prestigious event that unites the brightest minds in computer programming from leading universities worldwide, showcasing their problem-solving abilities, teamwork, and programming expertise. With over 3,000 universities attempting to qualify, the competition saw more than 170 universities from over 50 countries reaching the finals.



Data Science

Language

English

Format

On-Campus

Main Intake

September

Data Science is an innovative field that uncovers digital and technological insights beyond basic analysis. Our Data Science Masters programme provides a comprehensive education in advanced mathematical and programming skills within the context of data processing. It is tailored for graduates from diverse technical fields and Bachelor's Data Science alumni that want to deepen their expertise.

This programme has both theoretical and practical applications, giving students skills to excel in data analysis and informed decision making process. The curriculum is made for people with a strong mathematical background and focuses on techniques that transform complex datasets. This is perfect for individuals who are ready to advance their knowledge and thrive in technological field

Key Learning Outcomes

- ◆ Develop expertise in machine learning and AI applications
- ◆ Master advanced data analysis and modelling techniques
- ◆ Apply statistical methods to solve real-world problems
- ◆ Gain proficiency in programming for data manipulation and analysis
- ◆ Create impactful visualisations to communicate data insights
- ◆ Address ethical challenges in data science and AI
- ◆ Collaborate on interdisciplinary, data-driven projects
- ◆ Prepare for leadership roles in analytics and decision-making

Programme Directors



Radoslav Neychev

Senior Research Engineer at Machine Intelligence Lab, Yandex



Konstantin Mertsalov

Co-founder & CTO,
Balthazar

2 Types of Masters

Masters in Data Science

A focused one-year programme designed for those who want to fully immerse themselves in academic study. This format builds strong theoretical and practical expertise through an intensive and comprehensive curriculum.

Duration	Campuses	Credits
1 Year	Barcelona/Bangkok	60 ECTS
Tuition Fee (International)	Tuition Fee (Spanish & Thai Citizens)	
€22.900	€11.450	

Masters in Applied Data Science

An innovative format that blends academic learning with professional work experience. Study for the first six months, spend a year in a work placement, and return to complete the final six months of coursework. Perfect for those who wish to balance education with hands-on experience, this structure enhances practical skills and career development.

Duration	Campuses	Credits
2 Years	Barcelona	90 ECTS
Tuition Fee (International)	Tuition Fee (Spanish & Thai Citizens)	
€9.990 per year	€4.950 per year	

Programme Curriculum

Intro Module: From Zero to Hero



This introductory module gives you an experiential and immersive introduction into the world of high-tech entrepreneurship and the teaching methods of Harbour.Space. During this course, you will learn how to develop your idea and bring it to life through real decision-making and strategic challenges that many entrepreneurs face these days and how to tackle them.

Taught by Kamran Elahian, Founder and Chairman at Global Innovation Catalyst

Core Modules



Build essential skills through core modules that are fundamental to your degree, equipping you with the expertise expected of a data science master in today's competitive job market.

Math Refresher for Masters

Serhii Denysov, Senior Algorithms R&D at drawer.ai,
Programming and Math University Teacher

Python Refresher for Masters

Alexandra Sumarokova, Software and ML engineer

Statistical Data Analysis

Leah Isakov, Global Head of BioStatistics, Data Management,
Programming and Medical Writing at Seqirus

Masters Machine Learning

Radoslav Neychev, Machine Learning Instructor
at BigData Team

Deep Learning in Applications

Radoslav Neychev, Machine Learning Instructor
at BigData Team

Data Storages

Nikolay Golov, Head of Data Engineering at ManyChat

Elective Modules



Tailor your studies with elective modules, choosing to specialise in niche skills or explore interdisciplinary insights from fields beyond data science.

Probability and Statistics: Theory and Implementation

Numerical Linear Algebra & Optimization

Neural Networks and Computer Vision

Advanced Algorithms and Data Structures

Industrial Machine Learning

Time Series Analysis

Recommendation Systems

ML System Design

Development of Modern MLOps Platforms

From Data to Knowledge: Interpretation, Visualization, Presentation

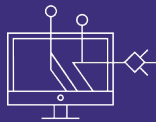
Integrated Data Engineering and Analysis on Google Cloud Platform

Generative AI Models: Tuning, Training, and Applications

Job Interview in AI & Data Analysis

Entrepreneurship for Engineers

Our Programme Ecosystem



Computer Science



Data Science



Cyber Security



High-Tech Entrepreneurship



Digital Marketing



Product Management



FinTech



Math as a Second Language



International Business



Digital Transformation



Interaction Design



Front-end Development

The Synergy of Technology, Business, and Design



Interdisciplinary Collaboration

Classes and assignments are aimed to closely resemble real life professional Situations. Thus, during the class, students are forming teams that consist of students fulfilling specific roles—Tech Entrepreneurs, Developers, and Designers.



All-Rounded Curriculum

Throughout their studies, students are required to pursue modules across three disciplines: design, technology and business, in order to expand their expertise. They learn how those three areas relate to one another, regardless of which major is declared.

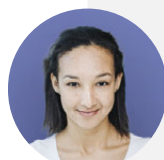
Google Our Teachers

We invite successful professionals from Tech, Business and Design to share their practical expertise and personal insights with our students. Through our flexible modular system, we can accommodate the needs of our experts and bring world-class knowledge to our campuses.



Radoslav Neychev

Senior Research Engineer at Machine Intelligence Lab, Yandex



Emeli Dral

Co-founder and CTO, Evidently AI



Sergey Nikolenko

Head of Artificial Intelligence, Synthesis AI



Leah Isakov

Global Head of BioStatistics, Data Management, Programming and Medical Writing, Seqirus



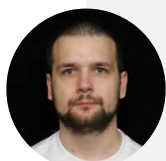
Mikhail Mirzayanov

Founder & CEO, Codeforces



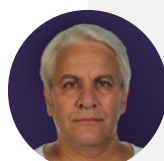
Yevgeniy Ilyin

Principal Solutions Architect, Amazon Web Services



Nikita Fedkin

Solutions Architect, Amazon Web Services



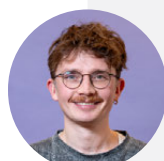
Andrey Khokhlov

Chief Researcher, IEPT RAS



Alexander Guschin

Product Engineer, Iterative AI



Evgeniy Riabenko

Senior Data Scientist, The Trade Desk, London



Anastasia Ianina

Research Scientist,
Meta Reality Labs



Ivan Yamshchikov

Head of Ecosystem Strategy,
Toloka.AI



Maxim Musin

CEO,
Rebels.ai



Nikolay Kalinin

Codeforces Chief Problem
Coordinator, PhD Student at Max
Planck Institute, Germany



Igor Slinko

Lead Machine Learning Engineer,
SPORTTOTAL.TV



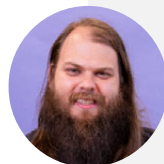
Nikolay Golov

Head of Data Engineering,
ManyChat



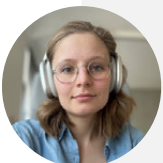
Juan Galeano

Researcher,
Centre d'Estudis Demogràfics



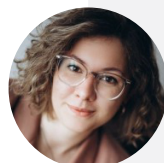
Alexey Davydov

Researcher at Steklov Math Institute,
Researcher at Synthesis AI



Irina Rudenko

Senior Research Engineer,
Avride



Anna Aksenova

NLP Researcher,
Ontotext

Our Two Campuses



Barcelona

Harbour.Space's flagship campus opened in 2015 and is located in the heart of town, just one block from the beach, offering an inspiring learning environment.



Professional Opportunities

- ◆ Thriving Tech Hub
- ◆ Industry Connections
- ◆ Creative Environment



Lifestyle

- ◆ Cultural Richness
- ◆ Beach and Outdoor Activities
- ◆ Food Haven





Bangkok

Harbour.Space's second campus opened in 2021 in partnership with UTCC (The University of the Thai Chamber of Commerce) and offers brand new facilities in downtown Bangkok.



Professional Opportunities

- ◆ Gateway to Southeast Asia
- ◆ Financial Centre
- ◆ Business Incubator



Lifestyle

- ◆ Culinary Paradise
- ◆ Bustling Urban Experience
- ◆ Cultural Immersion



From Campus to Career

30%

of students join the Work & Study model

€50– 70k

median salary range after three years of graduating

66%

of graduates work in tech, creative or ICT businesses

Our Alumni are a part of



frog



amazon

Rakuten

IBM

Glovo?

Deloitte.

↳ Toptal.

King

Taboola

AppSignal

Google

Jam3

PORSCHE



Sergi Roig

Alumnus, Masters in Fintech and High-tech Entrepreneurship

Harbour.Space was like a deep dive into the world of startups, I got the full toolkit for managing operations and finance. Now, as the CFO and COO of my own start-up, I'm in the thick of it, making purchasing decisions, scrutinising the financials, and steering the ship with all the resources we've got. I would say Harbour.Space didn't just teach me, it prepared me to lead.



Supatsara Rodratsa (Rose)

Alumna, Masters in Front-end Development

From Bangkok to Barcelona, a year filled with incredible experiences and diverse friendships. We've become a close-knit family, cherishing unforgettable memories together. A wonderful gift to treasure forever.



Margherita Giottoli

Alumna, Masters in Interaction Design

My experience at Harbour Space has been nothing short of transformative. Pursuing a Master's degree in Interaction Design has not only equipped me with valuable skills and knowledge but has also opened up a world of opportunities. Beyond the academic aspect, the highlight of my journey has been the incredible people I've met along the way. I owe a great deal of my success and happiness to this incredible institute.

Getting You Job-Ready!

Our institute places great emphasis on student's careers. From personalised plan to practical experience, Harbour.Space aims to provide as much practical experience for students as possible. The career development at Harbour.Space is divided into four main categories:

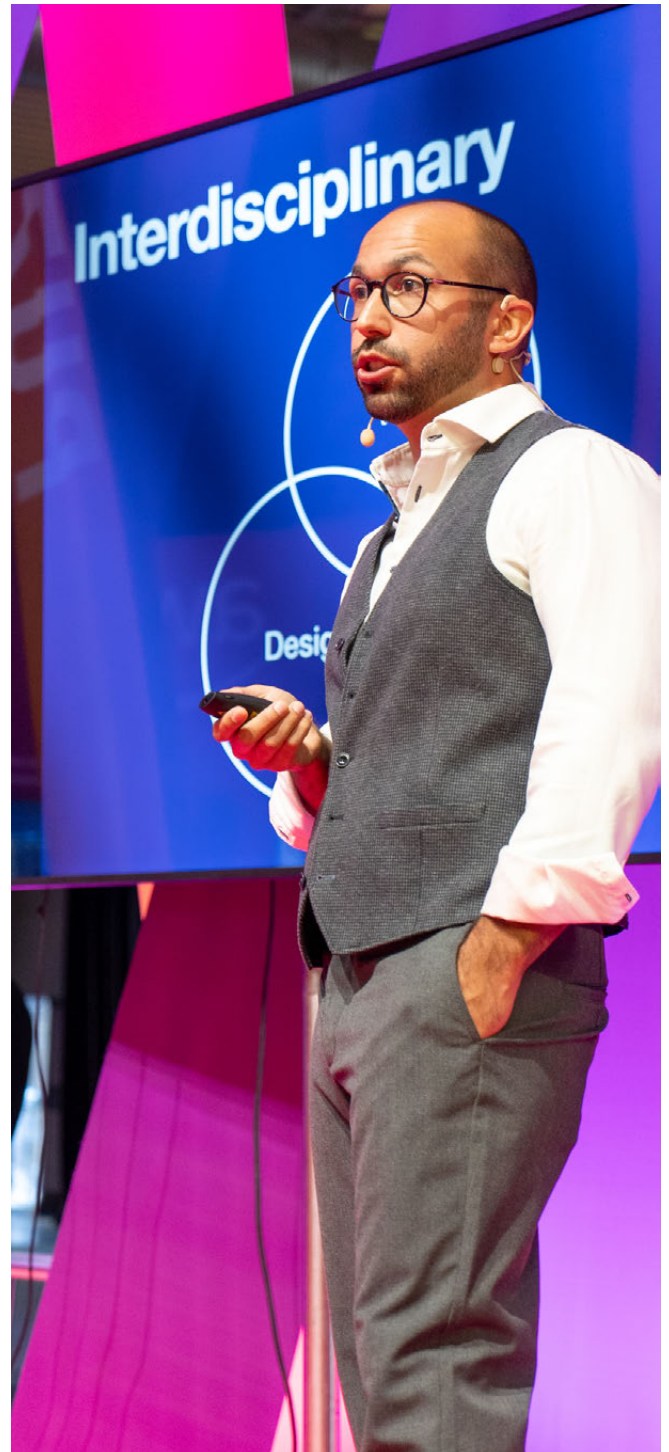
Work and Study Model

At Harbour.Space, we recognise the importance of balancing education with professional commitments. Our model allows you to continue working while studying, so there's no need to leave your job. While not every student opts for this approach, it's an excellent way to combine practical experience with academic learning.

Career Services

We support students in all aspects of their career journey, providing personalised guidance and resources to help them succeed. From crafting professional CVs and preparing for interviews to finding job opportunities and optimising LinkedIn profiles, we ensure students are fully prepared for the job market.

A dedicated team works closely with students, offering tools, connections, and tailored advice to assist them at every step, ensuring a smooth transition from university to professional life.





Internships

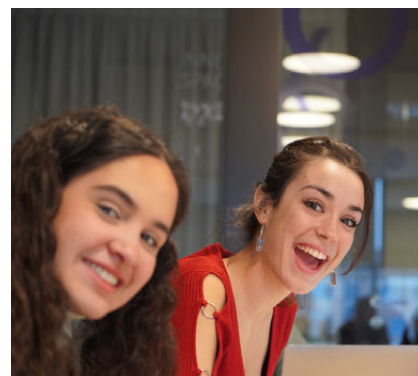
Gain hands-on experience through internships with our network of partner companies. These internships allow you to apply your knowledge in real-world settings, build industry connections, and enhance your professional skills, giving you a competitive edge in the job market.

Networking

Connect directly with industry leaders, explore career paths, and unlock job and internship opportunities through career days, job fairs, and exclusive events. These experiences help you build valuable relationships and gain insights to shape your professional future.



Your Experience With Us



Mentorship Programme

Access personal and professional guidance from a community of alumni, faculty, and industry mentors.

Professional Networking

Direct connections with industry experts in tech, business, and design to build your network and career.

International Community

A global, collaborative environment of students from over 100 countries, growing together.



Career Services

Personalised counselling, CV workshops, and exclusive job connections to prepare you for the job market.



Co-creators Programme

Collaborate on internal and external facing projects with the institute and gain practical experience.



Local Integration

Support with housing, legal needs, and local tips in Barcelona or Bangkok to help you settle in confidently.

Let's Talk About Your Future

Connect with our Admissions Guide to learn more about our programmes, book a campus visit, or try one of our ongoing modules.

Barcelona Intake: Every 3 Weeks

Bangkok Intake: August & January

Anastasia Sivolobchik

Admissions Guide

Email: admissions@harbour.space

Phone: +34 936 093 660

Scan to book a call



Learn more about the admission process



harbour.space/admissions

Get started with the application process



harbour.space/apply



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