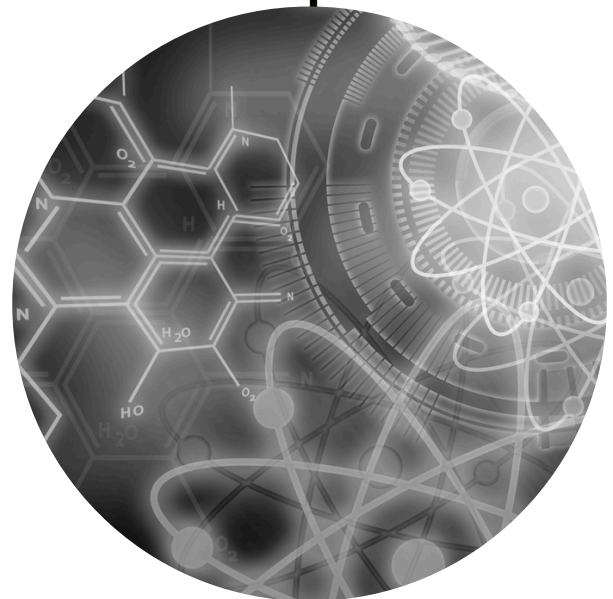




Quarter Course

CAREERS IN SCIENCE

SPRING 2025
CERTIFY WITH 30 HOURS



<https://www.imfahe.org/>

Syllabus Quarter Course

Innovation, Entrepreneurship and Leadership

COURSE DIRECTORS

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COURSE DESCRIPTION

The International Mentoring Foundation for the Advancement of Higher Education (IMFAHE) in collaboration with its partner universities, is committed to offering high-quality online education that empowers students to excel in their careers.

Pursuing a scientific career can be demanding, with challenges at various stages of the journey. This course is designed to equip young scientists with the essential knowledge, skills, and guidance needed to navigate these challenges effectively and stand out in their fields. Through expert-led sessions and practical exercises, this course aims to build the confidence and capabilities of emerging scientists, preparing them for successful and impactful careers in academia, industry, and beyond.

GRADING POLICY & REQUIREMENTS

This course is graded on a pass/fail basis. In order to receive a grade of “pass”, students must fulfill the 3 following requirements.

LEARNING OBJECTIVES

CAREER PATHWAYS IN SCIENCE

1

Explore a wide range of career options in science

SCIENTIFIC COMMUNICATION

2

Learn how to publish in high-impact journals, write successful fellowship, and maximize the benefits of attending conferences.

OPEN SCIENCE

3

Learn about Open Science and practice how to communicate the real-world impact of scientific research in a way that the general public can understand.

1

Attend the Live Masterclasses
or watch the recorded sessions and complete the visualization survey if the live session was not attended

2

Watch the Recorded Masterclasses
and complete the visualization survey for these masterclasses

3

Complete the Practical Exercises
and put into practice what you learned through the Masterclasses

LIVE MASTERCLASSES

The live masterclasses will be conducted **via Zoom** at the times listed in the table. It is important to **register** to each session.

1

Attend the Live Masterclasses or watch the recorded sessions and complete the visualization survey if the live session was not attended

Time & Date

Masterclass

Speaker

March 11
(2:30pm
Central European
Time)

Discussing the Career Path in Science. Panel with Career Experts.

James Gould, PhD.

Director for Postdoctoral Affairs, Harvard Medical School (Boston).

Lauren Celano.

Founder and CEO, Propel Careers (Boston).

Register
to the Masterclass

March 26
(2:30pm
Central European
Time)

How to Publish in a High Impact Factor Journal

Alfredo Giménez-Cassina, PhD.

Senior Editor at Nature Metabolism. Springer Nature Group (Berlin).

Register
to the Masterclass

Each student is expected to attend the live masterclass at the scheduled time and actively participate in discussions with the speaker. Students who are unable to attend must watch the recording of the session and complete a visualization survey. The link to the recording and the visualization survey will be shared with all registered participants 24-48 hours after the session. Students who attend the live masterclass are not required to complete the visualization survey.

RECORDED MASTERCLASSES

Find the links to the recorded masterclasses in the table below



Masterclass	Speaker
Overview of the career paths in science and demanded skills in the field Video Link Visualization Survey	Lauren Celano. Founder and CEO, Propel Careers (Boston)
How to make the most of the PhD and the Postdoc Video Link Visualization Survey	James Gould, PhD. Director for Postdoctoral Affairs, Harvard Medical School.
Fellowship Writing. Video Link Visualization Survey	Jessalyn Ubellacker, PhD. Harvard University and UT Southwestern Researcher (Texas, USA)
Abstract Writing Video Link Visualization Survey	Jessica Olive, PhD. Academic Editor, American Journal Editors/Research Square (USA)
Successful Conferencing Video Link Visualization Survey	Laura Contreras, PhD. Staff Scientist, Dana Farber Cancer Institute (Boston)
Paper Writing Video Link Visualization Survey	Kristin Sainani, PhD. Associate Professor at Stanford University (CA, USA).
Open Science Video Link Visualization Survey	David Mellor PhD. Director of Policy Initiatives, Center for Open Science, Virginia, USA. Michael B. Eisen PhD. Co-founder of Public Library of Science (PLOS) and editor-in-chief of the journal eLife and professor at UC Berkeley, California, USA.

Each student is expected to watch each session and answer the questions of the corresponding visualization survey.

PRACTICAL EXERCISES



1. Individual Development Plan (myIDP)

Learn which career path(s) in Science fit better your values, personality and interests and plan accordingly. Follow the instructions to complete this exercise:

1.1. Go to "myIDP" website <https://myidp.sciencecareers.org/>

1.2. Create a new account

1.3. Complete all the sections of myIDP (Assessment, Career Exploration, Create a Plan, Implement Plan)

1.4. Download the Completion Certificate

In order to get the diploma, you should email the Completion Certificate to IMFAHE (QC@imfahe.org).

2. Fellowship, internships and/or grant applications.

Research and identify fellowships, internships, and grants that align with your career goals and can support your professional development. To qualify for the diploma, please email IMFAHE at QC@imfahe.org with the names of two fellowships, companies where you would like to intern, or grants, along with a brief explanation of how each opportunity could help you achieve your career plan.

3. Write and submit an abstract.

Based on the "Successful Abstract" lecture, write an abstract describing your work to submit to a conference. In order to get the diploma, you should email your abstract to IMFAHE (QC@imfahe.org). If you are part of the IMFAHE network, we encourage you to submit the abstract to be selected for an oral presentation at the IMFAHE's International Conference that will be held the 26th of May 2025.

4. Open Science. Communicate the real-world impact of (your) research.

Choose either a past research project (published or soon-to-be published) or a scientific topic of your interest, and create one of the following to showcase the topic: an infographic, a slide deck carousel, or a 1–2 minute video.

Publish your content on a social media platform (such as LinkedIn, YouTube, Instagram, X, Facebook) or on a public access website to communicate the real-world impact of scientific research to the general public.

To receive the diploma, please email the link to your published content to IMFAHE at QC@imfahe.org.

If you are a member of the IMFAHE network, we encourage you to submit a video for the "Spotlight Contest" to help promote Open Science. The finalist videos will be showcased at the IMFAHE International Conference on May 26, 2025.

Each student is expected to complete the practical exercises in accordance with the guidelines, information, and advice provided in the masterclasses or outlined in the exercise instructions.

HOW TO OBTAIN THE DIPLOMA

(Course Certified with 30h Upon Completion)

IMPORTANT NOTE:

Only students and professors from the universities and organizations that collaborate with IMFAHE in the academic year of 2024-2025 are eligible to request a diploma. See the logos of the universities/organizations below.

HOW TO REQUEST A DIPLOMA:

After completing requirements 1, 2 and 3, please **send all practical exercises in a single email before APRIL 30, 2025 at 24:00 h** (Central European Time) to QC@imfahe.org.

Use the following the subject line:

[YOUR NAME-UNIVERSITY/ORGANIZATION-QC3-Diploma Request].



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