



Quarter Course

# CAREERS IN SCIENCE

SPRING 2024  
CERTIFY WITH 30 HOURS



<https://www.imfahe.org/imfahe-international-quarter-courses/>

# 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) works together with its partnered universities to provide the students with an online education of excellence.

Scientific careers may be challenging at certain stages. Through this course IMFAHE aims to provide young scientists with important information and guidance to stand out in their scientific careers.

### 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

Learn about the different career options in science: Academia, Pharma, Editorial Work, Consulting, Scientific Writer, Data Scientist, etc.

#### FELLOWSHIPS & GRANTS

2

Learn what you need to write successful fellowships and grant applications to fund your research at different stages of your career

#### SCIENTIFIC RIGOR & SCIENTIFIC COMMUNICATION

3

Importance of rigor in science. Discover what to do to publish in a high impact factor journal & how to get the most out of attending a conference

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 **via Zoom** and will take place at the indicated times 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
<b>March 7</b> <b>(2:30pm</b> <b>Central European</b> <b>Time)</b>	<b>Mental Health for PhD students</b> Video Link and Visualization Survey : (available on the <a href="#">web</a> after the session)	<b>Zachary F. Murguía Burton, PhD.</b> Professor of Earth & Climate Sciences   Mental Health Founder & Board Member   Playwright & Poet   Award-Winning Keynote Speaker.
<b>March 13</b> <b>(2:30pm</b> <b>Central European</b> <b>Time)</b>	<b>How to make the most of the PhD and the Postdoc</b> Video Link and Visualization Survey : (available on the <a href="#">web</a> after the session)	<b>James Gould, PhD.</b> Author   Career & Professional Development   Research Rigor & Responsibility   Director for Postdoctoral Affairs, Harvard Medical School.

**Register**  
to the Masterclass

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to the Masterclass

Each student is expected to attend the live masterclass at the scheduled time and be ready to discuss each topic with the speaker. Students that cannot make it to a class must watch the recording and complete a visualization survey to verify their visualization. Students that attend live masterclasses do not need to complete the surveys.



# RECORDED MASTERCLASSES

Find the links to the recorded masterclasses in the table below

2

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

## 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)

**Grants/Fellowships: Opportunities for PIs, Postdocs, and Pre-Docs**

[Video Link](#)

[Visualization Survey](#)

**Janne Salo, PhD.**

Research Program Officer, European Research Council-ERC (Brussels)

**Responsible conduct in research and how to publish in a high impact factor journal**

[Video Link](#)

[Visualization Survey](#)

**Javier Carmona, PhD.** Senior Editor Nature, Nature Medicine (New York)

**Toni Celia. Group Leader, PhD.** Princeton-Hospital del Mar (Barcelona)

**Miguel Prado, PhD.** Senior Postdoc Harvard Medical School (Boston)

**Fellowship Writing.**

[Video Link](#)

[Visualization Survey](#)

**Dr. Jessalyn Ubellacker,** Harvard University and UT Southwestern Researcher (Texas, USA)

**Abstract Writing**

[Video Link](#)

[Visualization Survey](#)

**Dr. Jessica Olive.** Academic Editor, American Journal Editors/Research Square (USA)

**Successful Conferencing**

[Video Link](#)

[Visualization Survey](#)

**Dr. Laura Contreras.** Staff Scientist, Dana Farber Cancer Institute (Boston)

**Promote your scientific career through social media.**

[Video Link](#)

[Visualization Survey](#)

**Carmen De Miguel**

Assistant Professor, University of Alabama at Birmingham, USA.

**Paper Writing.**

[Video Link](#)

[Visualization Survey](#)

**Dr. Kristin Sainani.**

Associate Professor at Stanford University (CA, USA).

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

# PRACTICAL EXERCISES

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## 1. Individual Development Plan (myIDP)

Learn which career paths 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](mailto:QC@imfahe.org)).

## 2. Fellowship, internships and/or grant applications.

Use the information/ideas provided in the course and do your research to find fellowships, internships and grants that you believe can help you to achieve your career plans. In order to get the diploma, email to IMFAHE ([QC@imfahe.org](mailto:QC@imfahe.org)) the name of 3 fellowships, companies where you are interested to do internships, or grants together with a short sentence explaining how these opportunities could help you to fulfill your career plans.

## 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](mailto: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 27th of May 2024.

Each student is expected to complete the practical exercises following the guidelines, information and advice presented at the masterclasses. The objective of these exercises is that every student prepares a CV/Resume, cover letter, LinkedIn profile, elevator pitch, and interview to be ready to get a desired job.

# HOW TO OBTAIN THE DIPLOMA

(Course Certified with 30h Upon Completion)

## IMPORTANT NOTE:

Only students and professors from the universities/organizations that collaborate with IMFAHE in the academic year of 2023-2024 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, send all **PRACTICAL EXERCISES in ONLY 1 EMAIL before MAY 3, 2024 at 24:00 h** (Central European Time) to [QC@imfahe.org](mailto:QC@imfahe.org) with the subject line **[YOUR NAME-UNIVERSITY-QC3-Diploma Request]**.



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