

Quarter Course 3: Careers in Science

Spring 2021 Course Syllabus

30 hours of classes and preparation

Find all the information about the course at:

<https://www.imfahe.org/en/imfahe-courses>



COURSE DIRECTORS

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COURSE DESCRIPTION

The International Mentoring Foundation for the Advancement of Higher Education ([IMFAHE](http://www.imfahe.org)) works together with its European Innovation Network to provide to students and young professionals with an online education of excellence. Scientific careers may be challenging at certain stages. Through this course IMFAHE aims to provide the aspiring scientists with important information and guidance to stand out in their scientific careers. This quarter course has the following learning objectives.

LEARNING OBJECTIVES

1 CAREER PATHWAYS IN SCIENCE Learn about the different career options in science: Academia, Pharma, Editorial Work, Consulting, Scientific Writer, Data Scientist, etc.	2 FELLOWSHIPS & GRANTS Learn what you need to write successful fellowships and grant applications to fund your research at different stages of your career	3 SCIENTIFIC RIGOR & SCIENTIFIC COMMUNICATION 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
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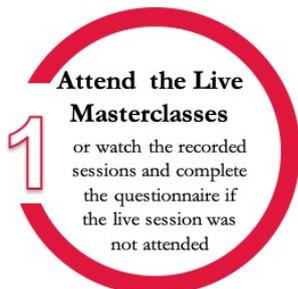
GRADING POLICY & REQUIREMENTS

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

1 Attend the Live Masterclasses or watch the recorded sessions and complete the questionnaire if the live session was not attended	2 Watch the Recorded Masterclasses and complete the survey for these masterclasses	3 Complete the Practical Exercises and put into practice what you learned through the Masterclasses
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AGENDA & INFORMATION ABOUT THE COURSE*

*The descriptions and timelines contained in this syllabus are subject to change at the discretion of the course directors



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

Live Masterclasses. These online masterclasses will take place at the indicated times. Access to the Masterclasses through this Zoom link:

<http://zoom.us/j/538787747>

Date & Time	Masterclass	Lecturer
March 4 th (2:30pm Madrid Time)	Overview of the career paths in science. Career self-assessment (My IDP).	Dr. Maria Soriano , VP at IMFAHE Foundation (Boston, USA)
March 6 th (4:00pm Madrid Time)	Round Table: Different Career Paths in Science	Helena Deus. Technology research director, Health markets, Elsevier, Cambridge, USA Joana Pinto Vieira. Regulatory writer Novartis Pharma AG, Switzerland Tomás Goucha. Academia, Humboldt-Universität zu Berlin, Germany (confirmed) João Ribas. Investment Associate Novo Holdings, Denmark
March 13 th (4:00pm Madrid Time)	Successful Conferencing. How to get the most out of attending a conference	Dr. Laura Contreras. Staff Scientist, Dana Farber Cancer Institute

The links to the recording of the live masterclasses and its corresponding questionnaires will be updated at:

<https://www.imfahe.org/en/imfahe-courses>

Recorded Masterclasses	Lecturer
Pros & Cons of Academia. Steps to succeed in Academia Video Link: TBA Visualization survey: TBA	Dr. Esther Baena , PI at Cancer Research UK Manchester Institute Dr. David Lagares , Assistant Professor MGH-Harvard Medical School (Boston) Dr. Rosario F. Godino , Professor, MEEI-Harvard Medical School (Boston) Dr. Joan Montero , Ramon y Cajal Researcher, IBEC (Barcelona)
Responsible conduct in research and how to publish a paper in a high impact factor journal Video Link: TBA Visualization survey: TBA	Dr. Javier Carmona. Senior Editor Nature, Nature Medicine (New York)



Fulbright Fellowships. The power of cultural exchange in the career development

[Video Link: TBA](#)

Visualization survey: [TBA](#)

Grant/Fellowship & Abstracts Writing. Learn how to write a successful grant/fellowship/abstract applications.

[Video Link: TBA](#)

Visualization survey: [TBA](#)

International Stays & Postdocs. Learn about opportunities for research abroad.

[Video Link: TBA](#)

Visualization survey: [TBA](#)

Other careers in science. Learn about other career paths in Science.

[Video Link: TBA](#)

Visualization survey: [TBA](#)

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

Dr. Miguel Prado. Senior Postdoc Harvard Medical School (Boston)

Alberto López San Miguel, Executive Director, Fulbright Commission Spain

Otilia Macedo Reis, Executive Director, Fulbright Commission Portugal

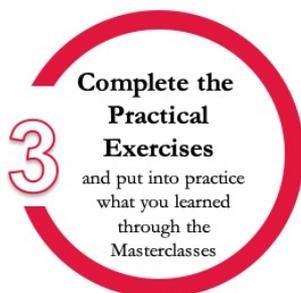
Dr. Jessalyn Ubellacker, Harvard University and UT Southwestern Researcher (Texas, USA)

Dr. Jessica Olive. Academic Editor, American Journal Editors/Research Square

Dr. Itsaso García-Arcos, Research Assistant Professor, SUNY (NY, USA)

Dr. Rocio Lopez. Consulting, ThinkBrain (Boston, USA)

Marcos Valiente, Editorial work, Nature Publishing Group (London, UK)



3 Complete the Practical Exercises

and put into practice what you learned through the Masterclasses

1. **Career pathways in Science.** Chose 2 career paths in science that may suit your values, personality, skills and interests. Create a 5-year career plan for each of the paths (Plan A, Plan B and Plan C), describing where you would like to be in your scientific career in 5 years in each case. In order to get the diploma, you should email the following information to IMFAHE (QC@imfahe.org):
 - a. Two career paths in science (by order of preference) and why you may be interested in pursuing them based on your values, personality, skills and interests; and
 - b. Your 5-year career plan for each of the career paths selected (Plan A, Plan B and Plan C).
2. **Fellowship, internships and/or grant applications.** Based on career plans A, B, and C that you created in practical exercise 1, 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 each one of your career plans. In order to get the diploma, you should email the name/link of the fellowships, companies where you are interested to do internships, and/or grants that you would like to apply to in order to fulfill your career plans A, B and C to IMFAHE (QC@imfahe.org). Also, briefly explain how do you think these opportunities can help you to achieve your career goals.
3. **Scientific Communication.** Practice your communication skills as much as you can by getting involved in writing manuscripts/grants, presenting in lab meetings/department seminars/conferences, explaining your work to your peers/your family/friends, writing emails to propose collaborations, etc. In order to get the diploma, you should email the following information to IMFAHE (QC@imfahe.org): actions that you are taking or that you are planning to take in the near future to practice your scientific communication. For example: 1) I want to convince my PhD supervisor to write a review about "...", 2) I am applying to the grant "... to fund my research and become an independent scientist", or 3) I am going to email a colleague a proposal for collaboration in the project "...".

4. **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 VII IMFAHE’s International Conference.

REQUEST A DIPLOMA

IMPORTANT NOTE: Only students and professors from the universities that collaborate with IMFAHE in the academic year of 2020-21 are eligible to request a diploma. See the logos of the universities below.

TO REQUEST A DIPLOMA: After completing requirements 1, 2 and 3, **send all PRACTICAL EXERCISES in ONLY 1 EMAIL** before **MAY 3, 2021, at 14:00 h (Madrid Time)** to QC@imfahe.org with the subject line **[YOUR FULL NAME-YOUR UNIVERSITY-Diploma Request]**.



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