

Imperial College
London



EPSRC Centre for Doctoral Training

**Smart Medical
Imaging**

A Guide Through PhD Applications and Initial Research Findings: Novel Patient Safety Assessment Method for Ultra-High Field MRI

AMER AJANOVIC

IMPERIAL COLLEGE AND KING'S COLLEGE LONDON CDT IN SMART MEDICAL IMAGING

21-05-2021



This project has received funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 101008548

OVERVIEW 1

I How to start?

Important Sites

Plan, Motive, Discipline

II PRIMARY (on-paper) APPLICATION

Structure

References

Diplomas

Standardized Tests

CV

Motivational Letter

Timeline

III INTERVIEW

BEFORE

STRUCTURE

Primary Application Discussion

Technical Part

Counter-Attack

DURING

AFTER

OVERVIEW 1

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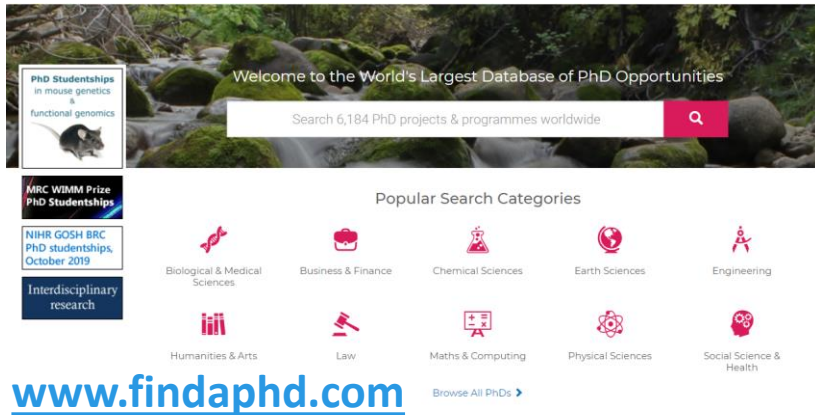
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AFTER

I How to Start: Important Sites



www.findaphd.com

Welcome to the World's Largest Database of PhD Opportunities

Search 6,184 PhD projects & programmes worldwide

Popular Search Categories:

- Biological & Medical Sciences
- Business & Finance
- Chemical Sciences
- Earth Sciences
- Engineering
- Humanities & Arts
- Law
- Maths & Computing
- Physical Sciences
- Social Science & Health

PHD Studentships in mouse genetics & functional genomics

MRC WIMM Prize PhD Studentships

NIHR GOSH BRC PhD Studentships, October 2019

Interdisciplinary research

Browse All PhDs

studyportals
PhDs

<https://www.phdportal.com/countries/82/united-states.html>

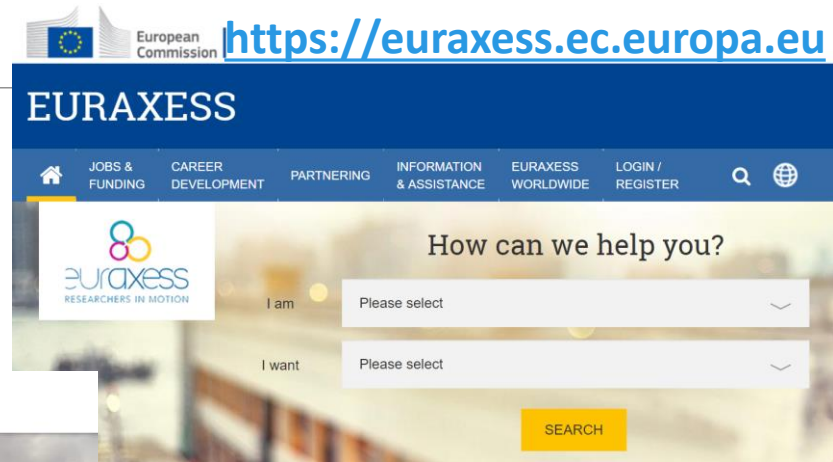
Find PhD Degrees in United States

What do you want to study?

Search

Home > Countries > United States

https://ec.europa.eu/research/mariecurieactions/how-to/find-job_en



European Commission

<https://euraxess.ec.europa.eu>

EURAXESS

RESEARCHERS IN MOTION

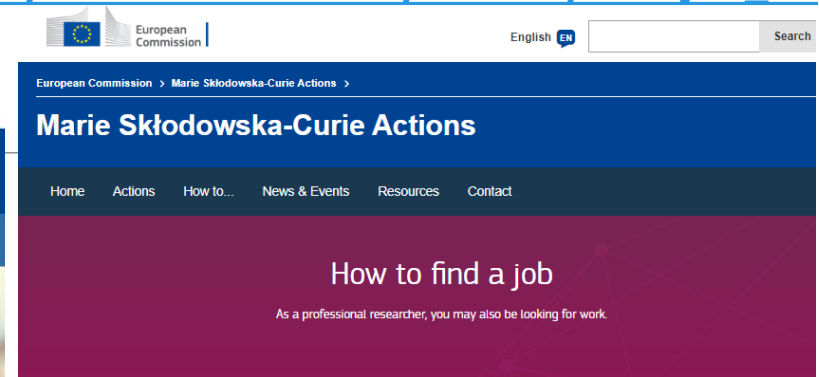
How can we help you?

I am: Please select

I want: Please select

SEARCH

Navigation: JOBS & FUNDING, CAREER DEVELOPMENT, PARTNERING, INFORMATION & ASSISTANCE, EURAXESS WORLDWIDE, LOGIN / REGISTER



European Commission

Marie Skłodowska-Curie Actions

Home Actions How to... News & Events Resources Contact

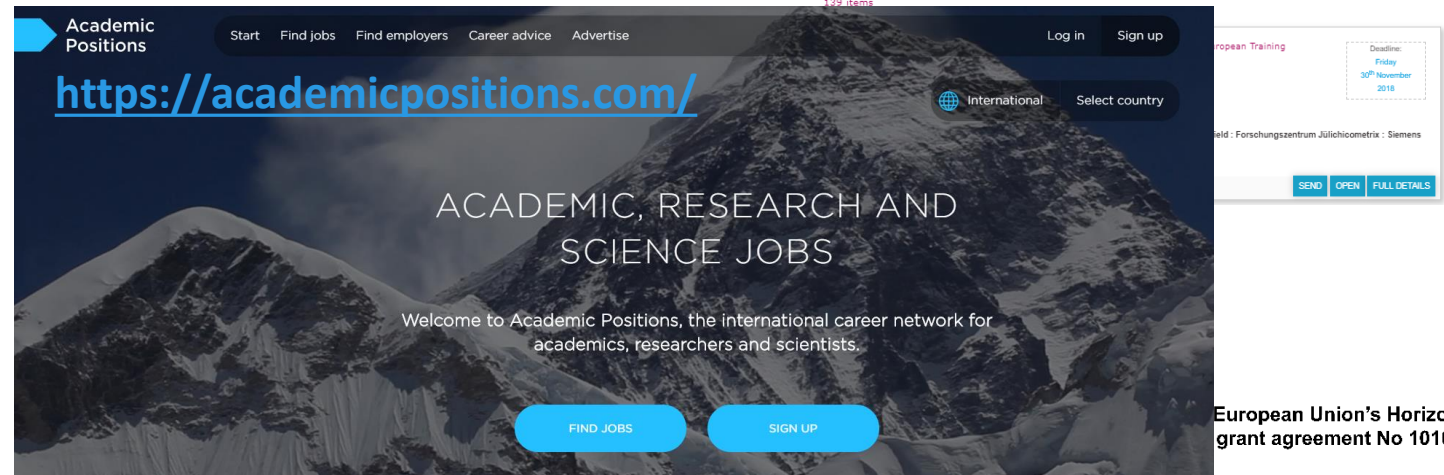
How to find a job

As a professional researcher, you may also be looking for work.

As a professional researcher, you may also be looking for work. The EURAXESS – Researchers in Motion portal holds details about thousands of jobs and opportunities for researchers, both inside and outside the EU. Register and use the portal to find posts on existing MSCA-funded projects.

The database is easy to use. You can search by research field, sector or even by EU programme – allowing you to narrow your search down to MSCA posts only. Job offers come from across the EU and beyond, and you can even post your CV on the site.

The portal is more than just a job service: you can find advice about visas, pensions, recognition of qualifications and other issues related to working as a researcher abroad.



Academic Positions

<https://academicpositions.com/>

ACADEMIC, RESEARCH AND SCIENCE JOBS

Welcome to Academic Positions, the international career network for academics, researchers and scientists.

Find Jobs Sign Up

Filter jobs by: Country, Field

132 items

Log in Sign up

International Select country

Deadline: Friday 30th November 2016

Field: Forschungszentrum Jülich/icomatrix : Siemens

SEND OPEN FULL DETAILS

European Union's Horizon 2020 grant agreement No 101008548

How to Start: Important Sites – Best for The UK: www.findaphd.com

The screenshot shows the 'Find A PhD' website search results for 'Medical / Biomedical Physics'. The left sidebar contains filters for Keyword, Location, Discipline, Subject, Institution, PhD Type, Show, and Funding. The main content area displays three search results, each with a 'Details' button. The first result is for 'EASTBIO: Adipose signalling in dolphins and its role in energy metabolism' at Aberdeen University. The second is for 'Development of scanning laser ophthalmoscopy to improve treatment in Diabetic Retinopathy' at Aberdeen University. The third is for 'PhD Opportunities in Biomedical Sciences at City University of Hong Kong'.

Keyword to investigate

Mainly for EU students

If you have your own funding

For All Internationals

Type of Funding

How to Start: Important Sites – Best for The UK: www.findaphd.com



Centre for Doctoral Training in Fluid Dynamics across Scales

This newly established centre involves the Departments of Aeronautics, Bioengineering, Chemical Engineering, Civil and Environmental Engineering, Earth Sciences and Engineering, Mathematics and Mechanical Engineering. The aim of the Centre is to provide an education across the different disciplines, that trains specialists in Fluid Mechanics with a highly transferable skillset.

The CDT offers a four-year training and research programme that combines a taught 'Master of Research' year (of which 6 months are devoted to a research project) with a three-year PhD-level research programme. This is specifically designed to cultivate researchers with a broad range of expertise in Fluid Dynamics and Fluids Engineering, including transferable skills that are highly desirable elements in the profile of scientists and engineers who aspire to be leaders in industry, commerce and academia. The creation of a vibrant, interactive student-cohort culture is one important aspect of the Centre's programme. There is a strong industrial participation in the Centre by companies such as Airbus, BR, McLaren, Siemens and TOTAL.

Visit www.imperial.ac.uk/fluidscdt for a full list of industrial partners.



Fluid Dynamics plays a vital role in a wide range of modern devices, industrial processes and natural phenomena - including Aeronautics, vehicle aerodynamics (e.g. F1, high-speed trains and cars), atmospheric and aquatic systems, food and chemical manufacturing, the production of oil and gas and the flows that govern our cardiovascular systems and the planet's oceans. Hence, researchers graduating from the Centre will be highly marketable.

Talented and motivated students passionate about doing research are invited to apply. For more information on the programme and the eligibility criteria please visit www.imperial.ac.uk/fluidscdt or email fluids@imperial.ac.uk.

Applications for 2018 are currently closed.



Apply Online

Deeping Learning Opto-physiological Monitoring and Assessment

Loughborough University | Wolfson School of Mechanical, Electrical and Manufacturing Engineering |

Loughborough | United Kingdom

Dr S Hu

Friday, February 01, 2019

DEADLINE!

Funded PhD Project (Students Worldwide)

Contact Person

- [Email Now!](#)
- [Apply Online](#)
- [Institution Profile](#)
- [Back to Results](#)

About This PhD Project

- [Project Description](#)
- [Funding Notes](#)
- [Email Now](#)

Project Description

Overview

Loughborough's opto-physiological interaction rese multiplexed opto-electronic sensor technology (mO mOEPS offers a flexible, biomedical monitoring eng demands, from clinicians to individual, which outp sign monitoring. However, the present state of opto sophisticated, dynamic solutions to deal with comp this PhD aims to research how effectively to monit system, integrating the smart approach of Deep Le measurement environments.

Entry requirements

VIP!

Applicants should have, or expect to achieve, at least a 2:1 Honours degree (or equivalent) in Physical sciences (Applied Physics) or Engineering (Electronic Engineering, Computer Programming, Biomedical Engineering).

A relevant Master's degree and / or experience in one or more of the following will be an advantage: Embedded Software, Electronics, Signal processing, opto-physiological monitoring.

UK	BIH	US/EU
1	9.5, 10.0	3.7
2.1	8.5, 9.0	3.3
2.2	7.5, 8.0	3.0

Funding Notes

UK/EU Fee band * TBC

International Fee band * £21,100

Guarantees there is funding for the international students

More info + contact

- [Email Now!](#)
- [Apply Online](#)
- [Institution Profile](#)
- [Back to Results](#)

Link for the ONLINE application

Related Subjects

- Biomedical Engineering
- Electrical & Electronic
- Medical / Biomedical Physics
- Optical Physics

Use only if there is no contact indicated at the top of the page

How to Start: Important Sites – Best for EU: www.academicpositions.com

The screenshot shows the user profile page for Amer Ajanovic. At the top, there are navigation links: Start, Find jobs, Find employers, Career advice, and Advertise. The user's name, Amer Ajanovic, is displayed in a blue button. Below this, a 'WELCOME AMER!' message is followed by a sub-header: 'Here you will find your saved jobs and profile overview. Make sure that your job alerts and contact details are up to date.' A navigation bar includes 'Overview', 'Job alerts', 'Saved jobs', and 'Settings'. A 'PROFILE COMPLETION (33%)' progress bar is shown. Under 'MILESTONES (1 / 3)', three items are listed with checkmarks: 'Create an account', 'Create a full user profile', and 'Create a job alert'. At the bottom, a 'CREATE A JOB ALERT' section contains the text 'Create a job alert to get emails with jobs that match your profile...' and a blue 'Job alert' button.

The screenshot shows the 'FIND JOBS' search interface. A search bar contains the text 'biomedical engineering'. Below the search bar are three filter dropdown menus: 'All fields', 'Job types: PhD' (highlighted with a red box), and 'All regions'. A 'CLEAR SEARCH' link is in the top right. A 'Job alert' button is located on the right side.

The screenshot shows the 'MY SAVED JOBS' section. It lists two job postings. The first is from the 'German Cancer Research Center (DKFZ)' with the location 'Germany' and a 'Closing on Jan 05' deadline (highlighted with a red box). The text 'DEADLINE' is written in red next to it. The second posting is from the 'Hector Fellow Academy' with the location 'Germany' and a 'Closing on Nov 25' deadline (highlighted with a red box). A red text box with a white background contains the text: 'BUG! Sometimes the deadline is indicated as the date you entered the site, but that often means the position is ONGOING, or ALL-YEAR LONG, so always double check!'. Each job listing includes a 'Read more' button, a 'Remove favourite' button, and a 'Share this job' button. A 'Publish Date' column on the right shows '1 month ago' for the first job and '4 months ago' for the second.

Your favorites

Keep interesting jobs, hostings, fundings and events in mind and mark them as your favorites.



10 days before the deadline, you get notified via email!

Want to delete a favorite? Click on the title below and choose "Remove from favorites".

Displaying 10 of 42

Title	Organisation/Company	Application Deadline	Starting Date	Action
Researcher: Developing the Next Generation PET/MRI m/f, vacancy number 2018/0102	University Medical Center Utrecht (UMC Utrecht)	27/02/2018 23:00 - Europe/London		☆ Remove from favorites
Postdoctoral position (3 years) and PhD position (3 years) for acoustic / ultrasound imaging	Ludwig-Maximilians-Universität	28/02/2018 23:00 - Europe/Brussels	01/06/2018	☆ Remove from favorites

European Union's Horizon 2020 grant agreement No 101008548

I How to Start: Important Sites – Good for EU:

ec.europa.eu/research/mariecurieactions/how-to/find-job_en

European Commission > Marie Skłodowska-Curie Actions >

Marie Skłodowska-Curie Actions

Home Actions How to... News & Events Resources Contact

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The portal is more than just a job service: you can find advice about visas, pensions, recognition of qualifications and other issues related to working as a researcher abroad.

Filter jobs by

Country Field

139 items

PhD students (15) - Early Stage Researcher (f/m) to participate in a large-scale European Training Network (ETN) on quantitative magnetic resonance imaging (MRI) processing

Field: Computer science : Engineering : Physics

Profile: First Stage Researcher (R1)

No job summary available

Organisation: University of Antwerp - Visionlab : Erasmus MCMR Solutions : University of Sheffield : Forschungszentrum Jülichicometrix : Siemens Healthineers : UZA Synthetic : MRQuantib

Country: Belgium : Netherlands : United Kingdom : Germany : Sweden

Deadline: Friday 30th November 2018

SEND OPEN FULL DETAILS

Filter jobs by

Country Physics

You selected: Physics
found 32 Items

PhD students (15) - Early Stage Researcher (f/m) to participate in a large-scale European Training Network (ETN) on quantitative magnetic resonance imaging (MRI) processing

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Country: Belgium : Netherlands : United Kingdom : Germany : Sweden

Deadline:

Friday
30th November
2018

SEND OPEN FULL DETAILS

15 Early-Stage Researcher (ESR) 3-year PhD positions

Field: Physics : Mathematics

Profile: First Stage Researcher (R1)

No job summary available

Organisation: Institutions across Europe in the SAGEX ITN network

Country: United Kingdom

Deadline:

Thursday
16th May
2019

SEND OPEN FULL DETAILS



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I How to Start: Important Sites – Good for The US: www.phdportal.com

44 PhD Degrees Our picks Lowest tuition fee

Filters: United States × Physics × Clear All

<p>Biophysics - Magnetic Resonance Imaging</p> <p>Medical College of Wisconsin Milwaukee, Wisconsin, United States</p> <p>Our program is designed to assist young scientists in developing the research skills they need to thrive in academic and clinical settings. Our</p> <p>Ph.D. • Full-time</p>	<p>♥</p> <p>975 GBP/credit 5 years</p>
<p>Biophysics</p> <p>Johns Hopkins University Baltimore, Maryland, United States</p> <p>The T. C. Jenkins Department of Biophysics actively participates in two graduate training programs, the Program in Molecular Biophysics (PMB),</p> <p>Ph.D. • Full-time</p>	<p>♥</p> <p>41,912 GBP/year 6 years</p>

Gives an indication of how much it costs, and NOT how much you would be paid.

I How to Start: Important Sites – Other Scholarships: www.scholarships.com

SCHOLARSHIPS.COM
You Find Money. Colleges Find You.

Scholarship Search Scholarship Directory College Search News Student Resources Educators Submit A Scholarship Login

Search Over 3.7 Million College Scholarships & Grants

About \$19 Billion in Financial Aid to Help You Pay for College

[Start Your Free Search](#)

+ Local Government Scholarships, DAAD (Germany) + UNI-specific (check out each uni of interest and their internal pots of funding you can apply to – highly recommendable to get in touch with potential supervisors, as they will know the best)

I How to Start: Plan, Motive and Discipline

PLAN

EXAMS PLAN

+ Make notes along the way + think summary @ the end based on LITERATURE REFERENCES

+ Find your own comparison of PROS/CONS (2000) & make simple table @ the end

THU, 27/12:	ACQ: US + NM (2 items)
FRI, 28/12:	ACQ: MRI + INTED: OPT. MUNK + AMERICAN
SAT, 29/12:	INTED: OTHER WORKS
SUN, 30/12:	REC: MRI
MON, 31/12:	REC: POT
TUE, 01/01:	Repeat: ACQ: US + NM + MRI (3 items)
WED, 02/01:	Repeat: INTED: MRI (incl. US literature again)
THU, 03/01:	Repeat: REC: POT + MRI
FRI, 04/01:	Practice Q&A based on Learning outcomes, VIP notes & review table for: ACQ
SAT, 05/01:	INTED (incl. ACQ again)
SUN, 06/01:	REC
MON, 07/01:	Review all ACQ only

- ZADACI ZA SEDMICU **SUN, 20/01/19 - SUN, 27/01/19**
- Završiti overleaf report za US CW i poslati ga Prof. Kobu!
 - Skype ili SLACK CALL OBRADITI i spremati za meeting za PhD App + OSAN/POSTER
 - MAIL nastaniti za US CW, poslati novina u grup, te poslati prof. Kobu, Jannu i Lauri.
 - Pregledati CERW & L4S App, javiti im rezultate, organizirati tisu + LIBRE Temp. Sess.
 - Preparati SOUTHWESTERN RAILWAY etc for DELAYS & how to get a CONTRA. for 03/01 CAUTION
 - Preparati za registraciju King's/Imperial GP
 - Registrirati se kod GP-a + Obici na zadani dan

Use EVERNOTE or alike

THU, 10/01:	Again: look all REC
FRI, 11/01:	REC [10 ⁰⁰ @ G14, JCHB (Wastulov)] : 2h
SAT, 12/01:	Rest & Family
SUN, 13/01:	Do you put on ACQ CW2 - US!
MON, 14/01:	Meet w/ AK abt ACQ CW2-US & finish the work! + EMAIL Prof SHARHAN on 10-20!
TUE, 15/01:	2x ACQ CW2 US. + [ML & Green files & Form notes for Prof S]
WED, 16/01:	- 11 - + - 11 -
THU, 17/01:	- 11 - + - 11 -
FRI, 18/01:	- 11 - + - 11 -
SAT, 19/01:	
SUN, 20/01:	ACQ CW2 Deadline
MON, 21/01:	
TUE, 22/01:	
WED, 23/01:	

- Meeting sa prof. Shatanon (KOBU) : priprema za PROJEKT, ...
- Pročitati malo o MLu i poslati kozi note koje mi treba prije meetinga!
- Lecture on MRI - #2 (KOBU) : obavestiti profesora obici
- Spremi se za LAB u čot lipnja na osnovu standarda nota i Shatan's LWS
- Vec' počin' spremati materijal za KOTORI o LAB 1!
- Spremi ESEJ za ACQ - X-ray/CT/PET/SPECT CW (KOB: ČETVRTAK)
- Spremi teme za Journal Club diskusija i poslati kozi WORDS (KOB: SREDA)
- PIT za ANNT BIT o PhD App (KOB: UTOREK, MICHY: SREDA)

I How to Start: Plan, Motive and Discipline

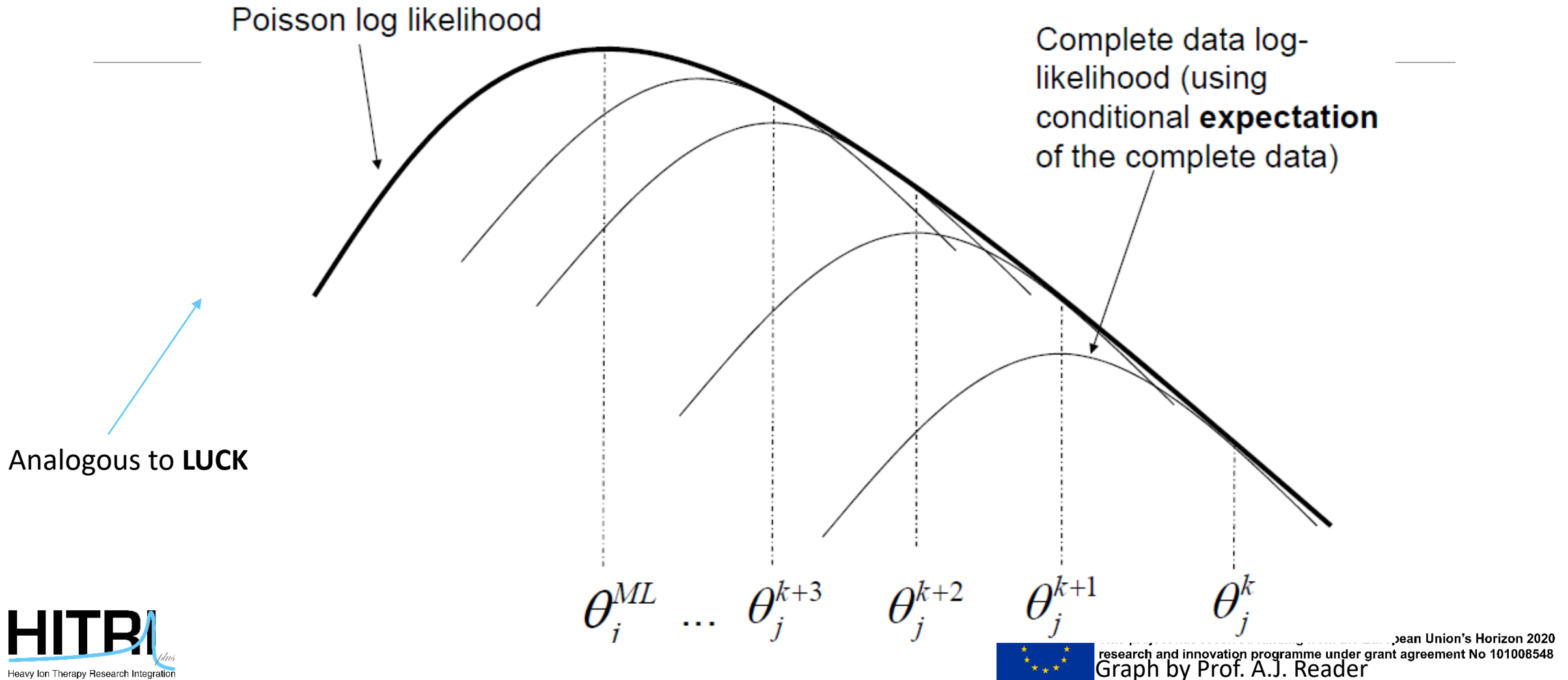
MOTIVE

INNER PEACE



I How to Start: Plan, Motive and Discipline

DISCIPLINE



OVERVIEW 1

I How to start?

Important Sites: [findaphd](#), [euraxess](#), [academic positions etc.](#)

Plan, Motive, Discipline: [yearly-monthly-weekly-daily plans + inner peace + luck optimisation!](#)

II PRIMARY (on-paper) APPLICATION

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II Primary (on-paper) Application – Structure: REFERENCES

- ✓ **Do NOT write your own references!**
- ✓ Ask **2 or 3** (or more) of your professors or others **EARLY!**
- ✓ **A draft should be ready BEFORE THE DEADLINE!**
- ✓ They usually receive a link where they upload the ref or sometimes you get a link.
- ✓ Let your referees know where and when you are applying (approximately).
- ✓ But also make them understand that there may be more positions you will be applying to!
- ✓ It should include a description of you as an academic personality (student, researcher), your main qualities and it would be particularly beneficial if they could write **WHERE, WHEN and HOW you specifically have demonstrated your abilities with respect to others.**

Diagram illustrating the structure of a recommendation letter:

- LOGO
- DATE
- TO WHOM IT MAY CONCERN
- Subject: Recommendation Letter
- Dear sir/madam,
- CONTENT
- Kind regards,
- SIGNATURE, POSITION DESCRIPTION

II Primary (on-paper) Application – Structure: DIPLOMAS

- ✓ Collect your diplomas, scan them and make them ready for upload (usually just a pdf document, all separated/together).
- ✓ If your certificates are not in English, translate them via a certified interpreters (court interpreters) and prepare them with the originals in pdf ready for upload!
- ✓ VIP! diplomas: **graduation diploma, interim grades transcript** so make sure to get them well before the application deadline! Get in touch with your universities (student affairs) early.
- ✓ If you cannot obtain the graduation diploma before the deadline, make sure to indicate in your u application that the process of obtaining the graduation diploma is ONGOING and add the expected graduation date + get a confirmation from the university that the program is still ongoing (or finalized), that you are still a student, but that you are expected to graduate at the certified time based on your current academic performance.
- ✓ **Additional Diplomas** (awards, special mentions, conferences, workshops, extracurricular programs, competitions, Olympiads): sort them out by relevance and/or date of obtaining them in a single pdf file.

II Primary (on-paper) Application – Structure: STANDARDIZED TESTS

- ✓ The most important ones for the **UK, EU** and the others: **ENGLISH – TOEFL, IELTS!**
Others: <https://www.britishcouncil.org/exam/uk-boards-overseas/english-language>
- ✓ **Register EARLY – way BEFORE the deadline for application**
(but don't give up on applying just because you don't have the TOEFL score ready - sometimes they allow exceptions or time for you to complete them).
- ✓ They cost **170 GBP** each!
- ✓ It costs extra to send the official score to the universities – but usually that is not essential!
In PhD applications, universities usually accept the non-official TOEFL/IELTS score in pdf,
OR just the test ID number and your score (check the REQUIREMENTS part of the application).
- ✓ Some programs **accept the official university confirmation letters stating that the program language of instruction is English.** In that case you do not need TOEFL/IELTS.
Check the REQUIREMENTS part of the application before applying!
- ✓ For **USA:** depends on the program, but usually:



**TOEFL/IELTS +
GRE GENERAL TEST + GRE SUBJECT TEST!**

Test Dates and Deadlines

Test Dates	Mail-in Registration Deadline	Online Registration Deadline
13 Oct 2018	27 Aug 2018	14 Sep 2018
10 Nov 2018	24 Sep 2018	12 Oct 2018
9 Feb 2019	24 Dec 2018	11 Jan 2019
13 Apr 2019	25 Feb 2019	15 Mar 2019

Score Reporting Dates

Test Dates	Approximate Score Report Mailing Date
13 Oct 2018	14 Nov 2018
10 Nov 2018	12 Dec 2018
9 Feb 2019	13 Mar 2019
13 Apr 2019	15 May 2019

TOEFL: https://www.ets.org/toefl/rpdt/register/centers_dates/

Test date	Test format	
January 2019		
Thursday 17 January 2019	Academic Only	Book now
Saturday 19 January 2019	Academic and General Training	Book now
February 2019		
Saturday 2 February 2019	Academic Only	Book now
Saturday 9 February 2019	Academic and General Training	Book now
Thursday 14 February 2019	Academic and General Training	Book now
Saturday 23 February 2019	Academic Only	Book now
March 2019		
Saturday 2 March 2019	Academic and General Training	Book now
Saturday 9 March 2019	Academic Only	Book now
Thursday 14 March 2019	Academic Only	Book now
Saturday 23 March 2019	Academic and General Training	Book now
April 2019		
Saturday 6 April 2019	Academic and General Training	Book now
Saturday 13 April 2019	Academic Only	Book now
Thursday 25 April 2019	Academic Only	Book now
Saturday 27 April 2019	Academic and General Training	Book now
May 2019		
Saturday 4 May 2019	Academic Only	Book now
Saturday 11 May 2019	Academic and General Training	Book now
Saturday 18 May 2019	Academic Only	Book now
Thursday 23 May 2019	Academic and General Training	Book now
June 2019		

IELTS:

<https://takeielts.britishcouncil.org/choose-ielts/global-test-dates>

has received funding from the European Union's Horizon 2020 innovation programme under grant agreement No 101008548

II Primary (on-paper) Application – Structure: CV

- ✓ Make a high-quality, neat, good-on-paper CV using MINIMALISTIC and SPECIFIC APPROACH!

AMER AJANOVIĆ

Address: Ulica Hifzi Bjelevca 8/7, Ilidža, 71000 Sarajevo, Bosnia and Herzegovina
Telephone: + 387 62 652 835; E-mail: ajan.amer@gmail.com

Professional Profile

Education

2017 – 2018

2013 – 2017

2013 – 2017

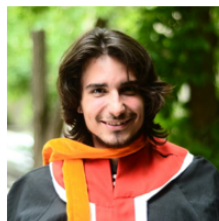
2012 – 2013

2008 – 2012

GRANTS: ...

Events/Training Attended

- April 2018 **International School on Nuclear Methods for Environmental and Life Science**, Budva, Montenegro: selected participant scheduled to represent Faculty of Science, University of Sarajevo



Relevant Skills

IT SKILLS

programming skills with **MATLAB, C** and **Python**; *itd itd*

LANGUAGES

Native: **Bosnian**; Fluent: **Turkish (C2), English (C2)**

Accomplishments

- Feb 2016 Invited for an **educational CERN tour** after scoring one of the highest grades in Modern Physics (Phys207) class by the instructor, Prof. Dr. Melahat Bilge Demirköz

Experience (Research, Professional and Teaching)

Jul - Aug 2018

Research Summer Student Full – time Intern

CERN, Geneva, Switzerland; Supervisors: Dr. Maurizio Vretenar, Prof. Ugo Amaldi, Dr. Yiota Foka

- Worked on design and comparison of superconducting synchrotron (SS) and HF linacs for heavy ion therapy;
- Carried accompanying calculations for the magnetic field shield in SS using OPERA and FEMM softwares.
- Assessed the efficiency of the novel oblique raster scanner technique for SS in heavy ion therapy.

References

Assoc. Prof. Dr

Head of the Radiation Protection and Medical Physics Department, University of Sarajevo Clinical Center

Associate Professor at the Physics Department, University of Sarajevo

University of Sarajevo Clinical Center

Bolnic

71000

Tel: +3

E-mail

II Primary (on-paper) Application – Structure: MOTIVATIONAL LETTER

✓ In the letter you should answer the **3 VIP! questions**:

1. **WHY THE CHOSEN AREA** (and how is it relevant for your further career plans)?
2. **WHY THIS PROGRAM** (at this university, with this supervisor, on this project)?
3. **WHY YOU** (your qualities, what you can contribute to, what you can learn, etc.)?

✓ Make them see from the way you write that you are **enthusiastic, eager to learn and determined!**

✓ Avoid being vague, **be specific with clear examples** and avoid using subjective sentences.

II Primary (on-paper) Application – Structure: MOTIVATIONAL LETTER

Please tell us why you would like to apply to our EPSRC King's and Imperial College London Medical Imaging Centre for Doctoral Training. Why are you interested in the research areas you have chosen? What would you say makes you a good candidate?

(Maximum 500 words)

Open with ▼

Why the chosen areas? My ideas for the future revolve around investigating special numerical and imaging

Why me? I believe I am the right person for the position for three main reasons. First, I have the extensive

Why Medical Imaging at CDT? I recently developed a research proposal that involves utilizing imaging



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101008548

II Primary (on-paper) Application – Structure: THE TIMELINE

✓ Organize yourselves to collect all the right documents in time, APPLY EARLY, and practice and train ahead of the interview!

1. Do the English tests (if necessary), and all other relevant standardized tests.
2. Search the sites + plan + contact the relevant person (usually your future supervisor(s)).
3. Select the position(s) you wish to apply for.
4. Contact your referees.
5. Collect the diplomas.
6. Prepare the „good-on-paper“ CV.
7. Prepare the Motivational Letter for the selected position.
8. Apply for the selected position.
9. Modify all of the above for the next position(s) you selected.
10. Repeat!
11. Interview.
12. Accept and reject.
13. Enjoy the iterative process!

OVERVIEW 1

I How to start?

Important Sites: findaphd, euraxess, academic positions etc.

Plan, Motive, Discipline: yearly-monthly-weekly-daily plans + inner peace + luck optimisation!

II PRIMARY (on-paper) APPLICATION

Structure

References: **contact 2 or 3 professors/referees early;**

Diplomas: **graduation diploma/confirmation you are still a student + interim grades transcript;**

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III INTERVIEW

BEFORE

STRUCTURE

Primary Application Discussion

Technical Part

Counter-Attack

DURING

AFTER

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III INTERVIEW

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III Interview – THE BEFORE

- ✓ Send emails of enquiry and contact the potential supervisors about their research and your interests!
-



III Interview – THE BEFORE

- ✓ Ask about the interview itself!

Dear Professor,

Many thanks for that kind assessment of our interview! And, of course, thank you for giving me another opportunity with the additional one. I will be available on Wednesday, 13th June, at 10.00 am (CET) for the interview, and am already looking forward to it.

I would again appreciate if we, the candidates, could learn more about this 2nd interview - would it be of the similar format as the first one (I expect it should be a little bit different this time around)?

Again, thank you for the opportunity and your time.

Yours sincerely,
Amer Ajanović

Dear Amer,

Good to hear that you will be available for the second interview on Wednesday.

The interview will be similar to the first but our discussion this time will be more focused on two questions:

- 1) What is diffusion tensor imaging (DTI)
- 2) What is tractography?

Best regards,
Tim

III Interview – THE BEFORE

✓ TRAIN!



III Interview – STRUCTURE: Discussion of your primary application

- ✓ Be ready to discuss your CV and Motivational Letter!
-

5 MAGIC TERMS YOU ARE USING TO ASSESS THE GROUP TOO:

INTERDISCIPLINARITY

GROUP ACTIVITY: research output + citations

COLLEGIALITY

GREAT STUDENT-PROFESSOR INTERACTION

EAGER TO LEARN/STUDY THIS ... WORK ON THAT... IMPROVE/GROW

III Interview – STRUCTURE: Technical Part

Simple Questions from the Field,

Questions on the Technicalities From Your CV,

Discussion of a Project You Did,

Discussion of a Scientific Paper,

Your Future Tasks.

III Interview – STRUCTURE: Technical Part

Project Presentation

- ✓ **1 slide = 1 min!** Usually max time = 10 min + 5/10 min for questions (as in conferences) → Have max. 10-11 slides!
- ✓ Use little text, a lot of **visuals!**
- ✓ Present your results in graphs rather than tables, if possible!
- ✓ Presentations usually follow the same structure the scientific articles do:
INTRO + METHODS + RESULTS + DISCUSSION + CONCLUSION,
but do NOT name the slides using those terms...
- ✓ Choose to present the most relevant project for the position you are applying to.
- ✓ Think about the audience: **do not underestimate them** (no need to mention the trivial matters), **but do not overestimate** them either (avoid using jargon, abbreviations etc., because the aim of a scientific presentation is to communicate your research to the audience – meaning they need to understand you regardless of what their criteria for judging you are).
- ✓ Can potentially use analogies to get a point across...



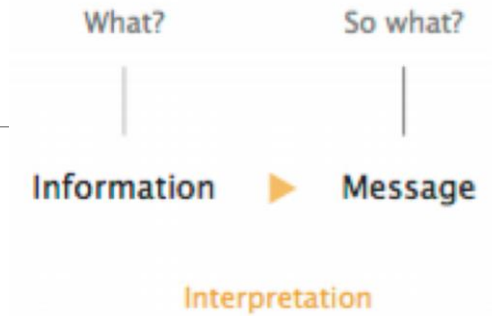
- ✓ **AIM:** what will your audience learn/gain from this,
how is this beneficial for them?!



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III Interview – STRUCTURE: Technical Part

Project Presentation

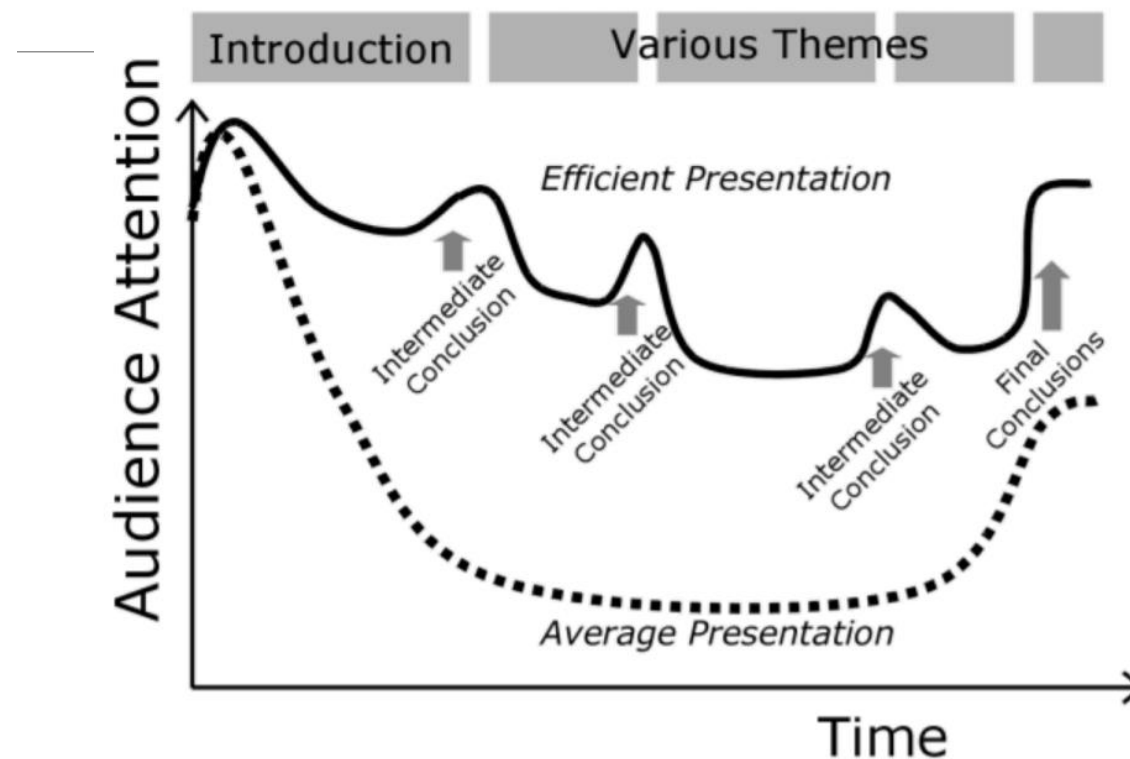
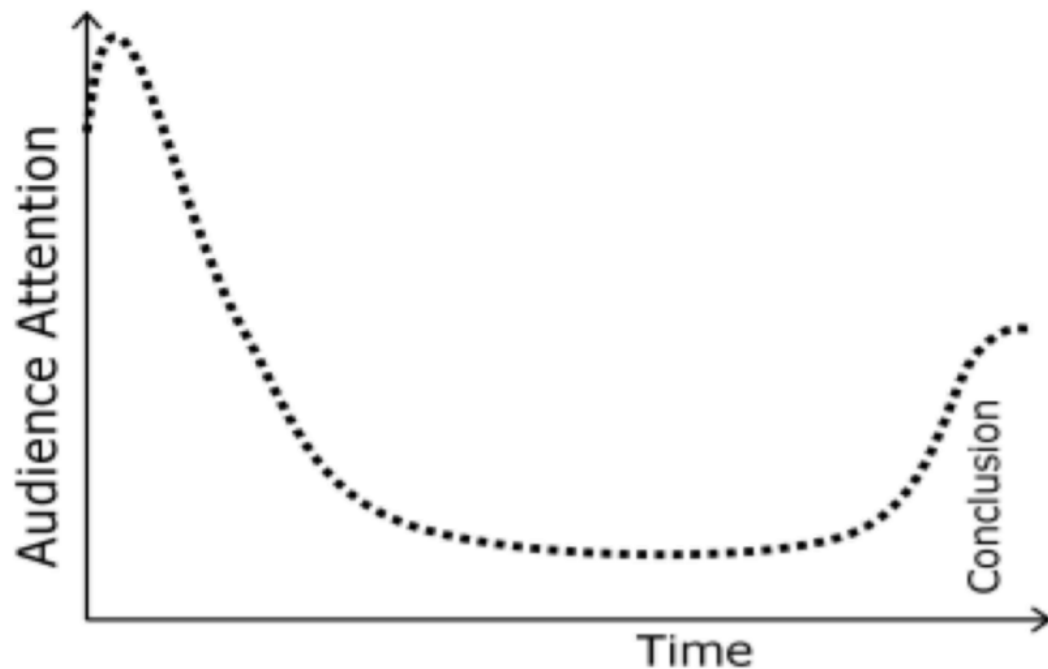


For ppt planning

Answer the five questions	
Why	Purpose
Who	Audience
What	Content
When	Time Constraints
Where	Space Constraints

III Interview – STRUCTURE: Technical Part

Project Presentation



III Interview – STRUCTURE: Counter-Attack

-
1. Study well what your interviewers do.
 2. Critically assess and discuss some of their research findings/articles/follow-ups.
 3. Ask about the group rhythm, meetings, experiments, your tasks, how much is the project prone to change, etc.

III Interview – DURING

- ✓ Be **CONFIDENT**, you've trained hard for this, now is the time to sell your best selves.
- ✓ **Maximize Signal to Noise Ratio.**

- ✓ Make sure your audience **understand** you and you are able to **keep their focus**.
- ✓ Accept all the feedback, particularly negative feedback, and **encourage negative feedback**.
- ✓ Always be **courteous**.

III Interview – AFTER

- ✓ Send email expressing gratitude within the 24h after the interview!

Dear Dr. De Marco,

Thank you for everything you have done in the past few weeks.

We had the great interview that ended about an hour ago and the panel made it highly enjoyable - for me at least it was. Near the end, I didn't want it to end actually.

Again, many thanks! Looking forward to hearing from you.

Yours sincerely,
Amer Ajanović

III Interview – AFTER

- ✓ Timely reject the positions you would not like to proceed with!
-



III Interview – AFTER

- ✓ Simply **ACCEPT** the one YOU would like to continue with. 😊

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BEFORE: **contact the supervisors for more information about the program and interview;**

STRUCTURE

Primary Application Discussion: **be ready to discuss motivation and CV;**

5 magic words: interdisciplinarity + collegiality + active program + great prof-student interaction + very eager to work on this/study that

Technical Part: **CV questions + Your Projects + Article/Their Project Discussion**

Counter-Attack: **Ask questions about the project, program, a scientific method...**

DURING: **be confident, determined, make them hear you, understand you, embrace criticality;**

AFTER: **send thank-you email, reject timely, accept accordingly and keep it all up!**

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Conclusions

Potentially Important for the Emerging Field of **MR-guided Hadron therapy**.

THANK YOU

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This material was prepared and presented within the HITRIplus Heavy Ion Therapy MasterClass School, and it is intended for educational purposes to facilitate students; people interested to use any of the material for any other purposes (such as other lectures, courses etc.) are kindly requested to please contact the author Amer Ajanovic at ajan.amer@gmail.com