



# **Introducing:**

# The Early Research & Projects Network

We are delighted to introduce you to our newest programme called the Early Research & Projects Network (ERPN) brought to you by CTY Ireland. The aim of this project is to link academically gifted and highly motivated students with tutors who can teach them the art of research and writing.

Through self-inspired or prescribed research questions and projects, ERPN enables second level students to begin engaging in projects with a view to presentation and or publication. We started in January 2021 with 50 students in areas of Science and Psychology. In 2022 we expanded the programme to include Creative Writing, Journalism, and Law as well.

Originally we ran the whole programme online but we now offer a successful hybrid programme with access to DCU campus every month to meet tutors and other students. This term ERPN will also be a hybrid programme with some slight changes based on feedback from our students.

Meetings will take place on campus in DCU roughly once a month, and there will be online meetings each week on Thursdays. At the end of the term students will get the chance to write up and present their work at a conference or launch during the winter.

Courses on offer this year are Creative Writing, Journalism, Law, Psychology, and Science and the course will start on Saturday 23rd September 2023 and run until December 9th 2023 with most classes taking place weekly from 5:00pm to 6:30pm on Thursdays online, and monthly Saturday meetings from 1pm - 4pm face to face in DCU.

Students can do their projects as part of a group or individually. Partners will be assigned for group projects. ERPN is open to secondary school students only. The cost is €500 for the term.

We hope that many of you will sign up for this exciting new project.

Sincerely,

**Dr Colm O'Reilly** CTYl Director



## **Course Information**

The aim of this project is to link academically gifted and highly motivated students with current researchers who can teach them the art of research.

Through self-inspired or prescribed research questions, ERPN enables second level students to begin engaging in research projects with a view to presentation and/or publication.

Through regular contact and weekly online or face to face meetings with a supervisor, students will get an early insight into third level activities.

In the **science** and **psychology** streams, students will learn how to structure a research question or questions, conduct a literature review, devise a methodology, conduct the research, analyse the results and discuss the outcomes. Students will then put together a formal presentation and/ or short thesis for feedback.

In the **law** stream, students will learn how to frame a legal research question, carry out research into their chosen topic, and write and present their findings, whilst supporting and nourishing students' own views. Students will carry out a project in a legal area of their choosing with the guidance of their supervisor.

In the **journalism** stream, students will learn a range of skills, from how to spot a good story, to how to conduct an interview, and how to present information in creative and informative ways. Students will carry out a project of their choosing with the guidance of their supervisor, working on their stories alone or in groups.

In the **creative writing** stream, students will learn about how the writing process works and get support with their own creative outputs. Your supervisor will help you to analyse texts, as well as your own writing, and ask the important question 'what makes this story work?'

This programme is suitable for students who are questioning, driven to greater understanding and self-starters. While supervisors will be there to help and guide students along their research journey, students are responsible for their own work. Regular meetings with their supervisor

and research group will serve to challenge and spur on students to defend their research and reach greater heights of understanding.

#### **Weekly Meetings**

A meeting with your study group and supervisor will normally take place once a week in an online setting but once a month or so it will take place on campus in DCU instead. By having group meetings with all students, issues can be discussed and thrashed out and everyone can learn from and help each other. Some weeks will feature guest lectures given by researchers or professionals currently engaged in the field, so that students can gain a greater understanding of the process. Typically the Thursday meeting for 1.5 hours will have content covered for the first hour, and then the last half an hour will be an opportunity for students to discuss their projects with each other and their instructor if they wish.

### Role of the Supervisor

As well as meeting with the students in a group each week, the supervisors are also available by email for questions, to read student work and give feedback between meetings. Supervisors have a strongly supportive role, and will be on hand to help and direct students when they inevitably have questions around what to do next, or how to interpret the results they are finding. The supervisor understands the academic process extremely well, and will help to challenge thinking and help students develop a critical eye and defend their research approach and findings or their writing. Supervisors will give gentle encouragement and guided feedback, will read over student work, and in doing so help in the research and editing process. They have a key role in the overall process, but it is the students who carry out the projects, and ultimately the decisions that are made along the way.

#### **Expectations of the Student Researcher**

Students should attend all meetings, and in the event that they cannot, should notify their supervisor in advance. Students are expected to adhere to deadlines set down by the supervisor, and again, contact them in advance if they need some additional time for completion. Students are expected to carry out a project and submit some form of written submission on this work. Students may not plagiarise material.







All information included in their work should be properly cited (if relevant. This will also be explained). Plagiarism is taken very seriously, and it is important that students learn the tools of research early on so that they can start as they mean to go on. It will set them in good stead for later research at university level.

#### **Final Output**

Different subject streams will have different outputs at the end of their programmes. Science and Psychology students may produce a short thesis or research poster. Creative Writing students will compile a piece of written work such as a short story or chapter. Law and Journalism students will produce a written project on a topic of their choice. In Winter 2023 we will host an in person event for each subject stream where students will have the opportunity to present their work to their peers and invited academic guests.

## **Course Dates**

Group meetings will be held once a week with supervisors between September and December 2023. The first meeting will take place on **Saturday the 30th September**.

### Thursday Meetings on Zoom: 5.00 - 6.30pm

October 5th, 12th, 19th, 26th, (No meeting during Midterm, 2nd Nov) November 9th, 16th, 23rd, 30th, December 7th, 14th.

## Saturday Meetings on DCU Glasnevin

**Campus: 1.00 - 4.00pm** 

September 30th, October 28th, November 25th, and December 16th.

## **Course Calendar**

# September - December 2023

September								October						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	
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November								December						
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26	27	28	29	30			24	25	26	27	28	29	30	
							31							

- Thursday Meetings on Zoom: 5.00 6.30pm
- Saturday Meetings on DCU Glasnevin Campus: 1.00 - 4.00pm



## **Subject Areas**

This year students will have the opportunity to choose between creative writing, journalism, law, science or psychology for their study. A short description below illustrates what this will entail, and the types of research or projects that students may undertake. It is recommended that students who took part in the course before try a different stream rather than a similar programme to last year.

## **Creative Writing**

Are you a budding novelist or short story writer? Do you have a head full of ideas but don't know where to begin putting pen to paper? This course will look at the art of fiction, grapple with plot and structure, and delve deep into character development. Your supervisor will help you to analyse texts, as well as your own writing, and ask the important question 'what makes this story work?'

Possible research topics could include:

- The Hero's Journey: modern storytelling and the monomyth.
- Three and Five Act Structures.
- Genre. Are you writing the next Dracula, perhaps the next Hunger Games trilogy? What tropes do you need to write within your preferred genre?
- Finding the Authentic Voice. Whether the story is in first or third-person narration, what lends to its authenticity? When does the voice become inauthentic?
- World Building. How does the writer create a believable world: whether in fantasy, sci-fi, or historical fiction?
- The Reader. Who is your reader?
   What do you have to say,
   and why should they read your writing?

An example of a previous student's work:

The legends spoke of a shimmering gateway that could unravel the fabric of time itself, a pathway to a world that was as much a mystery as it was a part of their heritage. The tales told of forests untouched by machinery, skies unmarred by smog, and a world where the connection between humans and nature was unbroken. The stories painted a vivid picture of a paradise lost to the ambitions of progress. One moonlit night, unable to resist the allure of the story, Lily embarked on a clandestine journey to unearth the portal. Guided by ancient maps, she navigated crumbling tunnels adorned with remnants of neon signs and holographic advertisements that had once illuminated the city's bustling streets. Lily's heart raced as she bypassed forgotten security systems, their sensors long faded and silent. The hum of hidden machinery echoed around her, a ghostly reminder of the world that once was. And there, at the heart of the ruins, Lily discovered the portal...

### **Journalism**

Do you have a passion for writing about the world around you? Are you curious and determined to know the truth behind a story? This Early Research & Projects Network course will take an in depth look at the world of journalism and the media more broadly. This programme will focus on learning the different writing and research techniques used by journalists as well as providing a critical examination of the media and its influence. Students on the course will develop a range of skills including digital literacy, news reporting, effective interviewing, feature writing and reviewing amongst others. All students on the course will then get the chance to put their new skills into action in the production of their own stories and class newspaper.

Possible research topics could include:

- Reviewing Local Cultural Events
- The Influence of the Media: in Music/ in Fashion/TV and Pop Culture etc
- Print & Politics Journalism's relationship with Propaganda
- Local Election Coverage Does media coverage have an impact on election outcomes?
- Digital Media Literacy How do you access, analyse and assess the validity of information found online? Should you trust everything you read?!
- Live: from the scene of your story!
- CTYI Reports: Investigating the Environmental Impact of a Local Corporation The Sports Round Up: In depth coverage and analysis

An example of a previous student's work:

As the election dust settled and the results poured in, Dubliners found themselves reflecting on the campaign's impact. While some were jubilant over victories, others faced the reality of defeat. It became evident that campaigns are not only about winning seats but also about invigorating civic participation and sparking conversations that transcend party lines. Dublin's general election campaign wasn't just about politics; it was about people their hopes, fears, and dreams for our city. This experience has underscored the importance of engaging actively, thinking critically, and making informed decisions. Whether it's casting a vote or sparking a conversation, our voices, no matter how young, are integral threads in the fabric of our democracy.



#### Law

Have you ever wanted to know more about why some cases are decided a certain way? Or why some people are found innocent when they seem so guilty? If so, you have come to the right place! This course will delve into the foundations of all aspects of law - criminal, constitutional, jurisprudence and much more! Along with knowing all this, a practicing lawyer needs to be able to carry out in depth analytical research into the law to do their job effectively. This course will teach students how to frame a legal research question, carry out research into their chosen topic, write and present their findings, whilst supporting and nourishing students' own views.

Possible research topics could include:

- Law v Morals: Who wins? The Case of the Speluncean Explorers
- Are the Separation of Powers really separate? Investigating the Judiciary, the Legislature and the Executive.
- The Law & Unconstitutionally Obtained Evidence, where should the line be drawn?
- Does the Law infringe too much on our Constitutional rights? You decide!
- Negligence and the Law of Torts: Who is at fault?

An example of a previous student's work:

In an era where technological advancements constantly challenge traditional legal frameworks, the question of the admissibility of unconstitutionally obtained evidence has become a focal point of legal discourse. This project delves into the intricate intersection between the law and unconstitutionally obtained evidence, with a keen focus on determining where the ethical and constitutional boundaries should be drawn. Drawing from a comprehensive review of landmark court cases, legal scholarship, and relevant precedents, this project aims to dissect the nuanced arguments surrounding the admissibility of evidence procured through methods that violate constitutional rights. By examining various jurisdictions and their respective approaches, the project seeks to explore the diverse perspectives on striking a balance between justice, individual rights, and the need to maintain law and order.

## **Psychology**

Psychology is the scientific study of the human mind and behaviour. Have you ever wondered how psychologists carry out their research and complete experiments? Psychology research includes a wide range of studies such as analysing brain functions to examining social relationships. You will have the opportunity to learn the research process of a psychologist first-hand by completing your own research! This includes selecting an area that you want to research, develop and test your hypothesis, and make conclusions based on the data you collected.

Previous research conducted by past students include:

- What are the benefits of playing video games for an individual?
- Investigating the relationship between martial arts and positive mental health
- Exploring attitudes towards individuals in prison
- Examining the positive attitudes associated with anime fandom
- Does practicing mindfulness help improve study skills?

An example of a previous student's work:

# The Impact of Single-Sex Schools on Gender Roles in Adolescents

Most Irish children go to single-sex primary schools. The impact of gender segregation in schools on academic performance has been widely researched. However, this study aims to investigate the effects of coeducational versus single-sex primary schools on teenagers' perception of gender roles and stereotypes. We hope to learn if singlesex schools are an issue in modern society. Our hypothesis is that teenagers who went to co-educational primary schools have more relaxed views on gender roles and are less likely to buy into gender stereotypes. We will survey students, aging from 15 to 18, including students from co-ed schools and the same amount from single sex schools.



### Science

Have you ever had questions about the world that you have wanted to find the answers to yourself? Maybe there's a problem out there that you want to help fix. This programme is for students who want to learn how scientific research is carried out and want support in their own scientific endeavours. Your supervisor will help you and other students to find a research question that you can tackle, help you design your experiments\*, and present your findings appropriately.

Possible research topics could include:

- Investigating the habitats in your local area
- Analysing the activities of natural pesticides
- Designing a system to identify different gait patterns
- Investigating the pollutants in nearby bodies of water
- Developing an app and testing its usefulness
- Investigating issues in the path to the diagnosis of....
- Can you really rush pharmaceutical approval?
- The incidence of meteors in the skies over Ireland

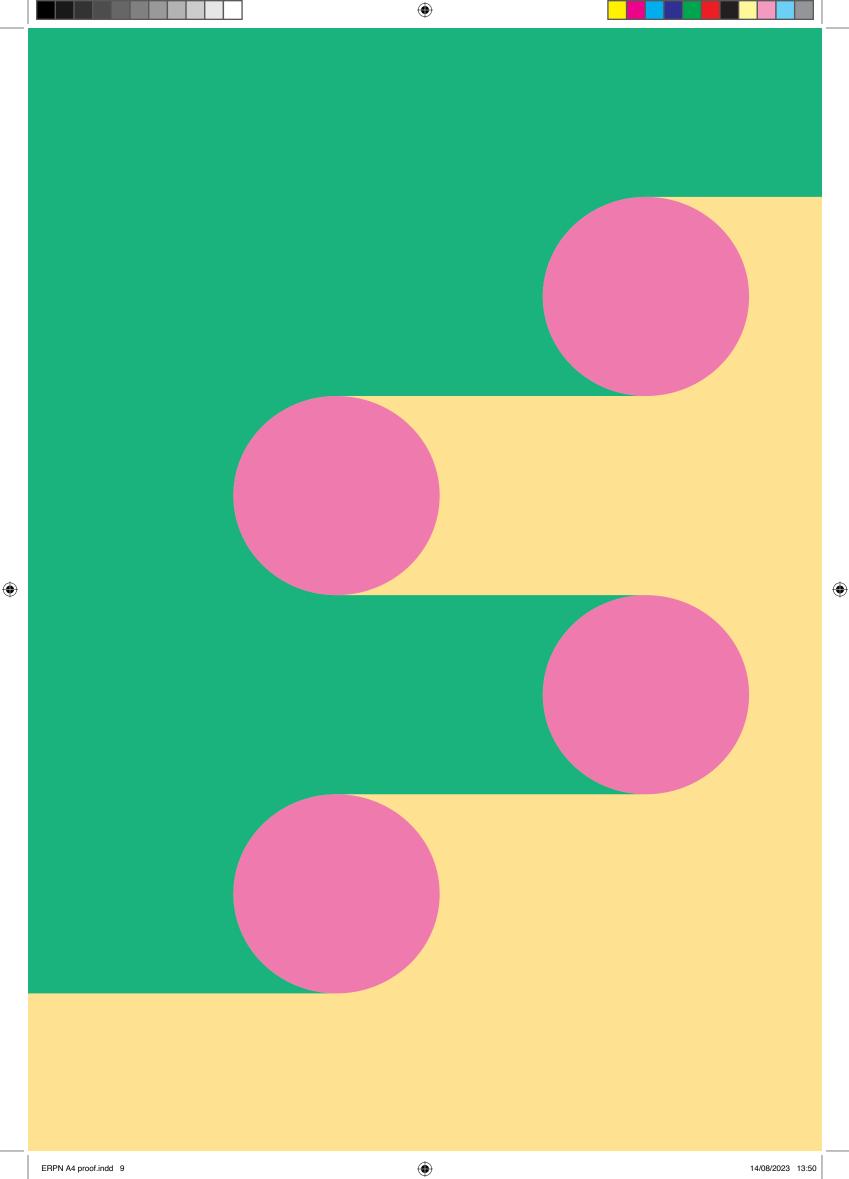
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- Unwanted guests The bacteria living in our homes
- \* Please note students may not have access to DCU's laboratory facilities during the project period.

An example of a previous student's work:

# Impacts of Increasing Acidity on Luminosity of Pyrocystis Fusiformis

Plankton is a major marine food source and a significant provider of oxygen. The burning of fossil fuels over the past few hundred years has caused an increase in CO2 levels in the atmosphere. Some of this CO2 has been absorbed by the ocean causing it to become more acidic. This study investigated the impact of ocean acidification on the luminosity of the bioluminescent plankton, Pyrocytis Fusiformis. These plankton light up when disturbed and they use bioluminescence as a defence mechanism. As a result of this, bioluminescence is essential for their survival. This research highlighted the potential dangers of ocean acidification on the marine ecosystem. With more data it will be easier to counteract these problems. This study investigated the effect of different pHs on the plankton over a week. The plankton was separated into four jars. In each of these, different amounts of diluted lemon juice was added. The acidity of the water in the jars was increased by a pH 0, 0.1, 0.2 and 0.3 respectively. This allowed for one control and three experimental values. Over the week the plankton was disturbed by shaking the closed jars and photos were taken. These pictures were then compared to each other using image processing. This study highlights why it is important to reduce the levels of carbon dioxide in the atmosphere, as it impacts every ecosystem and all life.



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# Terms and Conditions

Course places are limited and are on a 'first come, first served basis' so please apply as soon as possible to avoid disappointment.

#### Fees

Total fees are €500 which can be paid in full or in two installments of €300 and €200.

Minimum of €300 must be included with your application. Balance of Fees €200 Due: Friday 22nd September 2023

#### **Reduced Fees**

Financial aid is available for this programme for up to 50% of the total fee. If you think your child might qualify for financial aid, please contact linda.murphy@dcu.ie BEFORE application.

#### **Course Allocations**

All places are allocated on a strictly first come, first served basis. All communication relating to course allocations is communicated by Post. Please do not call the office as we cannot share this information by any other means.

Fees are non-transferable.
No refunds will be made to students dismissed from the programme.
Students and their families are liable for any damage they cause to university property.
CTYI reserves the right to cancel or alter any course, if due to unforeseen circumstances the course cannot be run economically or efficiently.

### Refunds

Written requests for a refund of Application Fees received up to and including 16th September will be considered. After this date there will be no refund of Application Fees.

Refunds are only provided where a course does not take place or where a course is full. Refunds are not given if the student withdraws from the programme having been offered a place on one of their course choices.

The €100 Registration fee is nonrefundable (this registration fee is part of the €300 application fee)

#### **Discipline**

The Early Research & Projects Network demands the same standards of behaviour, one would normally find in a caring, well-organised home. Honesty, cooperation and respect will be expected from all students. Rules concerning student conduct will be explained at the beginning of the Programme. Our rules are for the safety and well-being of all students and we ask both parents and students to cooperate fully with the Programme. Students may be dismissed from the Programme for any of the following reasons:

- Stealing
- Vandalism
- Unruly or abusive behaviour
- Bullying
- Possession of alcohol, drugs, tobacco or any substance controlled by law
- Not attending satisfactorily to their academic work
- Violating or putting at risk the safety and well-being of any person
- Non-compliance with any of the University rules and regulations

Or for any other reasons, which in the opinion of the director are of a sufficiently serious nature to warrant dismissal.

Any student who has been dismissed from the Programme will not be permitted to participate in end of term examinations/ assessments/presentations.





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