



DOCTORAL SCHOOL – TRAINING AND DEVELOPMENT PROGRAMME 2018-19

What is the Doctoral School?

The main purpose of the Doctoral School is to enhance your experience as a postgraduate research student at Bangor, and to ensure that you fulfil your full potential. We aim to develop and support an interdisciplinary and integrated research community with research students at its heart, while promoting equality of opportunities, and a healthy work-life balance. We wish to reward good practice and effort where it exists, and work towards providing the best student experience possible.

“Our aim is to make your experience at Bangor University as valuable and rewarding as we can. We have excellent supervision and support structures, which will be tailored around your needs and aspirations.”



Professor Jo Rycroft-Malone
Pro-Vice Chancellor for Research & Impact

The following resources are currently available:

- Training and Development Programme
- Post Graduate Certificate In Higher Education(PG Cert HE)
- Research Project Opportunities
- Videos to support Doctoral Students
- Personal Development Plan(PDP)
- Information for Doctoral Supervisors
- The Postgraduate Students' Society
- Competitions
- Scholarships
- Contact a Director of Postgraduate Study(PGR)
- Researcher Profiles & Posters
- Doctoral training Partnerships(DTPs)/ Knowledge Economy Skills Scholarships (KESS2)
- Resources and Links
- News and Events

DOCTORAL SCHOOL

Bangor University, Bangor,
Gwynedd, LL57 2DG

www.bangor.ac.uk/doctoral-school/

Phone: 01248 382357

Email: pgr@bangor.ac.uk

 @PhD_BangorUni

DOCTORAL SCHOOL -TRAINING AND DEVELOPMENT PROGRAMME- OCTOBER 2018

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Date	Time	Name of Course	Course Details.
04/10/2018	09.00 am-2.00 pm	Induction Event for New Postgraduate Researchers (* Repeating in January 2019 & April 2019)	All new Postgraduate Researchers are warmly invited to attend the induction event. It will be a perfect opportunity for new researchers to meet one another. The programme includes information from the Doctoral School, Student Services, Library Services and the Students' Union. You will have the opportunity to meet the faces behind the e-mails. We have also invited a supervisor and a postgraduate researcher to contribute to the day.
9/10/2018	10.00 am - 11.30 am	Literature searching (* Repeating in November 2018, February & March, June 2019)	This session will cover: <ul style="list-style-type: none"> • Searching techniques • Using electronic databases • Advanced searching • Keeping up to date with new research – current awareness • Saving and repeating search strategies
16/10/2018	10.00 am - 11.30 am	How to use RefWorks (* Repeating in November 2018, February & March, June 2019)	This session will show you how to use RefWorks to: <ul style="list-style-type: none"> • Save references from internet and database searches • Import PDFs into your account • Organise your references into folders • Create an automatic reference list at the end of an essay
17/10/2018	10.00 am-12.00 noon	How to use Mendeley (* Repeating in November 2018, February & March, June 2019)	This session will show you how to use Mendeley to: <ul style="list-style-type: none"> • Save references from internet and database searches • Import PDFs into your account • Organise your references into folders • Create an automatic reference list at the end of an essay

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Date	Time	Name of Course	Course Details.
22/10/2018	9.00 am. - 4.30 pm	Introduction to R (* Repeating in April 2019)	This is a one day intensive course on R. This course will be a mixture of lectures and computer practicals. The main focus will be to introduce fundamental R concepts. No prior programming knowledge of any kind is assumed. This course is suitable for a wide range of applicants. Course outline: Introduction to R: A brief overview of the background and features of the R statistical programming system. Entering Data: A description of how to import and export data from R. Data types: A summary of R's data types. R environment: A description of the R environment including the R working directory, creating/using scripts, saving data and results. R Graphics: Creating, editing and storing graphics in R. Manipulating data in R: Describing how data can be manipulated in R using logical operators.
23/10/2018	9.00 am - 4.30 pm	Statistical Modelling in R (* Repeating in April 2019)	This is a one day intensive course on modelling in R. This course will be a mixture of lectures and computer practicals. Prior knowledge: it will be assumed that participants are familiar with R. For example, inputting data, basic visualisation and data frames. Attending the introduction to R courses will provide a sufficient background. This course is suitable to a wide range of applicants. Course outline: Basic hypothesis testing: examples include one-sample t-test, one-sample Wilcoxon signed-rank test, independent two-sample t-test, Mann-Whitney test, two-sample t-test for paired samples, Wilcoxon signed-rank test. ANOVA tables: 1-way and 2-way tables. Simple and multiple linear regression: including model diagnostics. Clustering: hierarchical clustering, kmeans. Principal components analysis: plotting and scaling data

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Date	Time	Name of Course	Course Details.
24/10/2018	9.00 am - 4.30 pm	Programming in R (* Repeating in April 2019)	<p>This is a one day intensive course on R. The course will be a mixture of lectures and computer practicals. The main focus of the course is R programming techniques, such as functions, for loops and conditional expressions. The course follows on from the Introduction to R course. It is assumed that all students have attended this course (or have equivalent skills). This course is suitable to a wide range of applicants. Course outline: Vector operations: details of R's vectors operations. Conditionals: using "if" and "else" statements in R. Functions: what function is, how are they used, and how can we construct our own functions. Looping in R: an introduction to the concept of looping in R. In particular "for" and "while" loops. The apply functions: apply, tapply and other members of the apply family.</p>
25/10/2018	9.00 am - 4.30 pm	Advanced Graphics in R (* Repeating in April 2019)	<p>This is a one day intensive course on advanced graphics with R. The standard plotting commands in R are known as the Base graphics. In this course, we cover more advanced graphics packages - in particular, ggplot2. The ggplot2 package can create very advanced and informative graphics. A basic knowledge of R is assumed for this course. In particular, attendees should be familiar with the topics covered in the Introduction to R course. This course will be a mixture of lectures and computer practicals. The goal is to enable participants to apply the techniques covered to their own data. This course is suitable to a wide range of applicants. Course outline: The grammar of graphics; Mastering the grammar; Groups, geoms, stats and layers; Scales, axes and legends; Facets</p>

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Date	Time	Name of Course	Course Details.
22/10/2018	10.00 am-11.00 am	Introduction to Intellectual Property (* Repeating in March 2019)	An introduction to help researchers understand the basics of intellectual property and the way the University manages this
24/10/2018	1.00 p m -2.30 pm	Introduction to Impact (* Repeating in March 2019)	Impact generated from your research is an increasingly important part of academia. Impact means the changes, or benefits your research has in society – so in this Introduction to Impact training course we will focus on the basics of how to plan for and generate changes from your research for non-academic beneficiaries. You can effect changes within academia via your research outputs, collaborations and teaching but impact in this sense means making a difference in the wider world.
25/10/2018	10.00 am - 11.00 am	An Introduction to Open Access Publishing	This session will cover: <ul style="list-style-type: none"> • The principles of Open Access publishing • Funder requirements for OA publishing • Options for publishing journal articles Open Access • Process of adding your publications to the University's digital Repository • Information on RCUK funding that is available for Open Access publishing
26/10/2018	10.00 am - 12.30 am	Royal Society Publishing workshop	The Publishing team at the Royal Society will run a publishing workshop aimed at Masters, PhD researchers and Post-docs. The session will cover all aspects on how to publish a scientific paper in high-quality international journals. The interactive session will included presentations and exercises, with a Q&A session. Information will also be provided on the Royal Society and its journals.

DOCTORAL SCHOOL -TRAINING AND DEVELOPMENT PROGRAMME- NOVEMBER 2018

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Date	Time	Name of Course	Course Details.
05/11/2018	1.00 pm - 2.30 pm	An introduction to Research Data Management (* Repeating in March 2019)	<p>This session will cover:</p> <ul style="list-style-type: none"> • Why research data management and planning is vital • Research Data storage options • Research Data preservation, reuse and archiving • Research Data curation: labelling and describing data sets • Funders expectations and Legal responsibilities
07/11/2018	1.00 pm – 2.30 pm	Reporting Outcomes from your Research: PURE & Researchfish (* Repeating in March 2019)	<p>As a post graduate researcher, you are required to report the outcomes of your research to both your funder and your own university. Come along to a session to understand more about this process and how to use our internal research information system – PURE – to do this. We will also look at the Researchfish database which is the system used by an increasing number of funders – including the Research Councils (UKRI) for reporting research outcomes.</p> <p>In this session we will cover the following topics:</p> <ul style="list-style-type: none"> • What do we mean by reporting research outcomes and examples of research outcomes e.g. outputs, public engagement, collaborations, impact • The PURE system <ul style="list-style-type: none"> ○ What is PURE and why do we use it ○ Making your research profile public ○ How to update your profile, institutional repository and research related activities (e.g. impact) • Reporting Research Outcomes using ResearchFish <ul style="list-style-type: none"> ○ Using Researchfish to report outcomes for RCUK and some other key funders ○ Data generated by the reporting outcomes process

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Date	Time	Name of Course	Course Details.
13/11/2018	12.00 pm – 2.00 pm	Preparing to pass your Viva (* Repeating in March 2019)	<p>The Viva voce examination should be the final step in your doctorate. But should it be the most scary? Probably not...</p> <p>In this highly-participatory session we will scrutinise the purpose of the viva - which is to verify that you meet the assessment criteria and so can be awarded your doctorate - and will explore how it might be conducted. We will then use this as the basis of planning so that you can be fully prepared for your viva. With the aim that it becomes the final celebration of a successful doctorate, rather than something to fear.</p>
14/11/2018	9.30 am - 4.00 pm	How to be an Effective Researcher for PGRs (* Repeating in March 2019)	<p>A doctorate is about becoming an independent researcher. This is about mastery in your discipline, but it is also about developing others skills. This 1-day course will focus on two main areas: managing the research process as a project, and essential communication skills, including managing your Supervisors. It is a very interactive course, where you'll address things practically, and share ideas with a diverse group of fellow researchers. But the aim will be for you to gain practical, tangible ideas that you can begin to put into practice immediately to be a more effective doctoral researcher.</p>
15/11/2018	9.30 am - 4.00 pm	Making Progress in the Second Year of Your PhD (* Repeating in March 2019)	<p>The second year - or middle phase - of a doctorate can be the most challenging. This one day course will aim to help you overcome this challenge, and to maintain the momentum you will need to successfully complete your doctorate on time. "Specifically, we will look at some critical success factors for the second year of PhD, as well as defining the required end products of a clear research argument, and how this will expressed in your Thesis. We will also address the requirements of the doctoral assessment criteria. We will use all of this to help you set your own individual plan for the next phase of your doctorate.</p>

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Date	Time	Name of Course	Course Details.
22/11/2018	2.00 pm – 4.00 pm	GDPR for Researchers	<p>This session will outline the requirements of the General Data Protection Regulation (GDPR) and the Data Protection Act 2018. There will then be an opportunity for researchers to gain further information on specific topics relevant to their research interests, and to talk through specific scenarios.</p> <p>These will include</p> <ul style="list-style-type: none"> • What are the new rules for gathering consent for research? • How long should I be keeping my research data? • What does GDPR say about pseudoanonymisation / anonymisation? • What security measures should I be utilising for my research under GDPR? • What about secondary data analysis? <p>The session will be led by Gwenan Hine, Head of Governance and Compliance and will be facilitated by Dr Penny Dowdney from the Doctoral School.</p>
26/11/2018	10.00 am- 11.30 am	Systematic Reviews: how to plan, conduct and manage the literature searches (* Repeating in March 2019)	<p>This session will cover tips for undertaking the literature searching required in “systematic reviews”, including: planning an appropriate search strategy, database searching tips including using MeSH and other indexes, using search filters, documenting the search process, managing references using RefWorks.</p>
26/11/2018	10.00 am- 12.00 pm	Sustainability workshops for postgraduate researchers (*Repeating in March 2019)	<p>This workshop will help you understand how your research contributes to sustainability and the Well-being of Future Generations (WFG), the overarching sustainable development framework in Wales. It will be an opportunity to find out how the WFG is relevant to your research, your stakeholders and academic school. There will also be an opportunity to explore how your research contributes to the well-being goals and national indicators and the Wales we all want.</p>

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Date	Time	Name of Course	Course Details.
03/12/2018	2.00 pm- 3.30 pm	Copyright for your thesis (* Repeating in April, June 2019)	Your PhD thesis will be published open access on the University's digital Repository. Make sure that you are aware of copyright issues regarding the publication of your thesis.
06/12/2018	11.00 am-12.30 pm	Getting published and tracking your citations (* Repeating in April 2019)	This session will cover <ul style="list-style-type: none"> • Publication strategy and planning • Where to publish • Impact factors and tracking your citations
14/12/2018	9:00 am-4:30 pm	Project Management: Managing the PhD (* Repeating in March 2019)	<p>The questions to ask and the least you need to know. Within your research career, you are likely to have to organise, analyse and present an enormous amount of information. You will also have to manage your time, set goals and review progress - and probably working with others to encourage them to do the same. This set of skills is often placed under the heading of "Project Management" and is highly sought by a wide variety of employers. By the end of the session participants should be able to:</p> <ul style="list-style-type: none"> • Understand the criteria for successful project management and also consider why some projects fail. • Understand, evaluate and implement various tools to help research planning and communication of that plan • Appreciate the importance of stakeholder and risk analysis. <p>Regardless of whether your PhD is based in multinational team and collecting data, or you by yourself evolving an idea, this course will be a productive and valuable way to spend a day.</p>

DOCTORAL SCHOOL -TRAINING AND DEVELOPMENT PROGRAMME– DECEMBER 2018/JANUARY-MARCH 2019

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Date	Time	Name of Course	Course Details.
04/12/2018	9.30 a.m. - 4.00 p.m	PhD Day – ‘The Conversation’ (* Repeating in March 2019)	<p>Having an article published about your research or expertise is a valuable tool in enhancing your PhD. The Conversation is an independent source of news and views, sourced from the academic and research community and delivered direct to the public. Its unique model enables research academics and students to write and publish opinion pieces and news-related stories based on their research, expertise or field of study.</p> <p>As a result of BU membership, we are able to offer you an opportunity to attend a day’s writing workshop, with the aim of having an article, authored by you, published by The Conversation.</p>
March/ TBC	March/ TBC	Introductory NVivo session	<p>This session will provide a brief introduction to NVivo 10, a computer package assisting qualitative analysis. This computer package is a tool that supports a number of data analysis approaches. We will have a look at the main features and functions and you will be able to try out a few yourself. The aim of the session is to provide you with an overview of what NVivo could be used for and a number of resources.</p>
29/03/2019	9.30 a.m. - 4.00 p.m	Finish-up and Move On	<p>“There are two challenges at the end of the doctorate - getting it finished, and being clear what comes next. During this 1-day course, we will explore the key elements of both. For completing the doctorate, we will explore in depth what you need to do to complete a thesis that will pass the viva, and what the viva itself will entail. This will include looking at the writing process and thesis structures. But in order to do this, you need to overcome the potential blockage of not knowing what you will do after you finish. So, we will consider career paths, and how to access them and market yourself and your skills successfully.”</p>



Coleg
Cymraeg
Cenedlaethol

Coleg Cymraeg Cenedlaethol Research Skills Training Programme

The purpose of the Research Skills Training Programme is to support Welsh medium research students, and is the only research training programme for postgraduate students and early career academics exclusively through the medium of Welsh.

<http://www.colegcymraeg.ac.uk/en/research/researchskillstraining/>

11 September 2018 – Aberystwyth ‘Postgraduate Teaching Skills Course’ (one day course)
<http://www.colegcymraeg.ac.uk/cy/ymchwil/rhaglensgiliauymchwil/aberystwyth-medi2018/>

Research Skills Course 1 – Lampeter, 17-18 October 2018 (Residential Course)
<http://www.colegcymraeg.ac.uk/cy/ymchwil/rhaglensgiliauymchwil/hydref2018/>

Research Skills Course 2 – Bangor, 14-15 November 2018 (Residential Course)
<http://www.colegcymraeg.ac.uk/cy/ymchwil/rhaglensgiliauymchwil/tachwedd2018/>

Research Skills Course 3 – Cardiff, 12-13 December 2018 (Residential Course)
<http://www.colegcymraeg.ac.uk/cy/ymchwil/rhaglensgiliauymchwil/rhagfyr2018/>

Research Skills Course 4 – Bangor, 23-24 January 2019 (Residential Course)
<http://www.colegcymraeg.ac.uk/cy/ymchwil/rhaglensgiliauymchwil/ionawr2019/>

June 2019 – Multidisciplinary Research Conference (date and location TBC)
<http://www.colegcymraeg.ac.uk/en/research/welsh-mediumresearchconference/>

CONTACTS

Professor John Turner
Dean of Postgraduate Research

Dr Penny Dowdney
Doctoral School Manager
Phone: 01248 382266
Email: p.j.dowdney@bangor.ac.uk

Aashu Jayadeep
Doctoral School Administrator
Phone: 01248 382357
Email: a.jayadeep@bangor.ac.uk

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