**MRes in Advanced Computing**

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**MRes in a Nutshell**

- To give interested students a taste of research practice
- More in-depth individual study
- May lead into PhD

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**Course Structure**

- You take 4 taught modules
- You must do 1 long or 2 short Research Projects
  - Either one project per term or single project over 2 terms
  - Effectively count as 4 courses in total
- Academic Writing course (Term1 + Term 2)
- Graduate School research/professional skills courses

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**MRes is suitable for you if ...**

- You want depth more than breadth
- There's a subject area you want to specialise in
  - Use Research projects to focus on specific topics
- You prefer a more open-ended course of study
  - Research projects are driven by you!
- You prefer to study by reading in a self-guided way
  - Research projects include state-of-the-art survey
Take the MAC if...

- You prefer breadth over depth
- You prefer a more directed course of study
- (However, the ISO in Term 2 gives you an opportunity for independent study...)

Both MRes and MAC are suitable if:
- You are contemplating the possibility of a PhD.
- Both are an appropriate preparation for a PhD (as are our other MSc courses).

MRes Element 1: Taught Courses

You take 4 taught modules in Terms 1 and 2. Subject to restrictions stated on the web page.

http://www.imperial.ac.uk/computing/current-students/pg-info/mres-advanced/

MRes Element 2: Research Projects (RPs)

- To acquire individual research skills, explore potential research areas, contribute to the field and (maybe) get to know your future PhD supervisor...
- Directed in-depth individual research
  - Must include original work
  - Warning: RPs are hard work and can have hidden snags
  - You’re expected to spend two days a week on them
- You must do 1 large or 2 smaller RPs
  - Single large project
    - Interim assessment after Term 1; full assessment after Term 2
  - Two smaller projects
    - Assessments after Terms 1 and 2

Element 2: Research Project Allocation

- MRes students need to fix the 1st RP by October 14th 2016 (Friday)
- Also check out academics web pages and research themes http://www.imperial.ac.uk/computing/research/
- Email potential supervisors and arrange meetings
  - Discuss and agree on a RP
4. Go to CATE: [https://cate.doc.ic.ac.uk](https://cate.doc.ic.ac.uk)
   a) Click on the "Projects Portal" icon
   b) Click on "Admin" button for MRes Research Project (First)
   c) Add a new "student proposed" project description

5. Email your supervisor to accept your project on CATE

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**Element 2: Research Proposal**

- Research proposals on CATE should include the following headings:
  1. **Problem Statement**
     - What is the research problem that will be addressed?
  2. **State of the Art**
     - Is this an unsolved problem? What did other people do?
     - Provide some pointers to existing research literature
  3. **Key Research Idea**
     - What is the new approach that may solve the problem?
  4. **Research Work Plan**
     - How will you go about doing the research?

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**Element 2: Research Project Assessment**

- Term 1 RP submission deadline: Early in Jan 2017
- Assessment by supervisor and second marker
  - Written project/interim report
  - Oral examination
    - Project presentation
    - Project demonstration
    - Open Q&A
- Feedback session after assessment
  - Not about marks but about points to improve
- More information under research project assessment at:
  [http://www.imperial.ac.uk/computing/current-students/pg-info/mres-advanced/projects/](http://www.imperial.ac.uk/computing/current-students/pg-info/mres-advanced/projects/)

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**Element 3: Academic Writing course**

- Runs in Terms 1 and 2.
  - You'll gain experience in critically reading research papers
    - What is good? is the abstract appropriate?
    - Have the authors evaluated their work?
    - Have they cited related work?
    - Not necessarily in your area of expertise
    - It aims to improve your own report writing skills
  - Involves reading papers, writing reports and discussion groups

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The Academic Writing course is not on the timetable yet.

You were sent an email by Dr. Krysia Broda about it.

To develop transferable skills relevant for research

- Offered by Graduate School (GS) transferable skills
  http://www.imperial.ac.uk/study/pg/graduate-school/professional-skills/masters/

You need to take at least 2

Examples:
  - Perfecting Presentations
  - Research effectiveness

- Unassessed – but you must attend!
- Book early to avoid disappointment!

Compulsory online plagiarism awareness course

For masters students

http://www.imperial.ac.uk/study/pg/graduate-school/professional-skills/masters/online/

Individual project (summer)

- May continue on from the term 1 and 2 research projects
- May continue into PhD ....
How to Switch to the MRes

- It’s not automatic – we’ll make decisions on a case-by-case basis...
- International Students:
  If you are here on a visa to do an MSc you may not be able to switch to MRes. Please check with the International Office.
- Get in touch with Mr James Jacobson:
  <j.jacobson@imperial.ac.uk>
- Deadline for this: Wednesday, Oct 5th 2016
- Fix up your first Research Project by: Friday, Oct 14th 2015

Useful Web Pages

Course Descriptions + Regulations + Reading Lists
http://www.imperial.ac.uk/computing/current-students/pg-info/mres-advanced/

Timetables:
http://www.imperial.ac.uk/computing/current-students/timetables/

CetCat Timetables:
https://www.imperial.ac.uk/estatesfacilities/services/timetabling/calendar/

Some Notes on the Timetables

- Weeks may differ from one another.
- Changes occur from time to time.
- Please check your timetables frequently.
- If two courses clash on the timetable on their lectures their exams will also clash.

More Notes on the Timetables

Not part of the course. For interest only and free to attend:

- Wednesday pm Machine Learning Seminars
- Tuesday pm Applications of Computing in Industry
- Friday pm Imperial Programming Lectures
Applications of Computing in Industry: Lecture Series

http://www.imperial.ac.uk/computing/industry/aci-talks/

- Samsung
- Microsoft
- Google
- Morgan Stanley
- Skyscanner
- Arm
- BlackRock
- Swiftkey
- Imagination
- Bloomberg
- Yelp
- Morgan Stanley
- Skyscanner
- BlackRock
- Imagination
- Bloomberg
- Yelp

Noticeboard:
http://www.imperial.ac.uk/computing/current-students/course-admin/noticeboards/msc/

Cate
Notes/Tutorials/Courseworks
Credit Subscriptions for Examinations
Personal Records

College-Wide Centres and Facilities: Student Hub
http://www3.imperial.ac.uk/studenthub

Location: Level 3, Sherfield Building

Services: One stop shop:
- Accommodation
- Tuition Fees
- Student Records
- International Student Enquiries
- Special Examination Arrangements
- Exam Results, Official Letters, etc.

College-Wide Centres and Facilities

- New Students
http://www3.imperial.ac.uk/students/newstudents
- Centre for Academic English
http://www.imperial.ac.uk/academic-english
- Graduate Students’ Union (GSU)
https://www.imperialcollegeunion.org/news/graduate-students-union-needs-you
**College-Wide Centres and Facilities**

- Welfare Support
- Disability Advisory Service
  [http://www3.imperial.ac.uk/disabilityadvisoryservice](http://www3.imperial.ac.uk/disabilityadvisoryservice)
- Student Counselling service
  [http://www3.imperial.ac.uk/counselling](http://www3.imperial.ac.uk/counselling)

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**Deadlines**

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<td>Selection of Res Proj 1</td>
<td>16 October 2015 (Friday)</td>
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<td>14 January 2016 (Thursday)</td>
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<td>Presentation of Res Proj 1</td>
<td>15 January 2016 (Friday)</td>
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<td>Selection of Res Proj 2</td>
<td>22 January 2016 (Friday)</td>
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<tr>
<td>Submission of Res Proj 2</td>
<td>25 April 2016 (Monday)</td>
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<td>Presentation of Res Proj 2</td>
<td>27 April 2016 (Wednesday)</td>
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