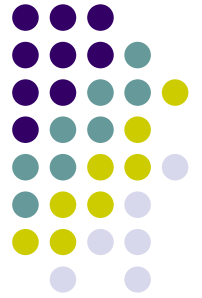
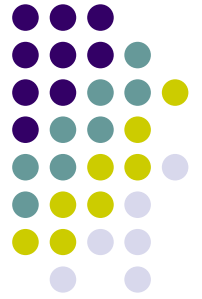


# Mathematics and Statistics MSc and AGDip Induction



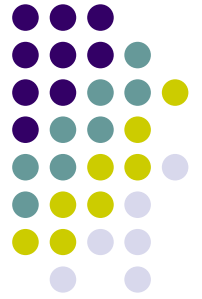
- **Welcome!**
- Schedule:
- 1:30 Kirsten Hoak: administrative orientation
- 1:45 Diarmuid Crowley: program and academic orientation
- At the end: you are invited to a afternoon tea

# Some people in the Maths and Stats Community



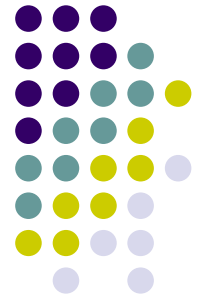
- Academic:  
*Prof. Jan de Gier* (HoS),  
*A/Prof. Diarmuid Crowley* (MSc co-ordinator),
- Administrative: *Kirsten Hoak*
- Your supervisor
- Your fellow MSc students
- StaMPS (Stats and Maths Postgraduate Society)

# People in the General Office:



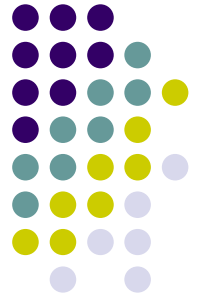
- **Kirsten Hoak** is the academic support officer in the general office. She is primarily concerned with the support of postgraduate students and academics in the department.
- **Roy Ridgway** works in the same capacity, primarily with undergraduates.

# More people in the General Office:



- **Anna Rodway and Hayley Ellul** are the administrative officers. They can assist with after-hours card access, room bookings and any general enquiries.
- **Joanne Harwood** - HoS\* personal assistant.

\* HoS = Head of School

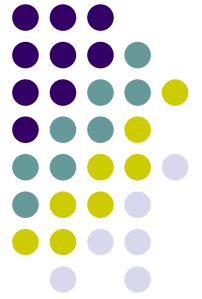


# Enrolment:

**STOP1** handles **all** enrolment issues.

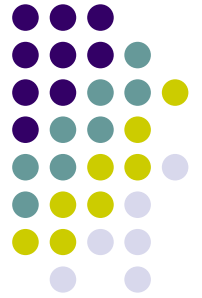
- *Last day to add S1 subjects to your enrolment yourself: **Friday 9<sup>th</sup> August.***
- *Last date to withdraw from S1 subjects without incurring fees: **Saturday 31<sup>st</sup> August.***
- *Last date to withdraw from S1 subjects without incurring a Fail result on your academic Record: **Friday 27<sup>th</sup> September.***
- ***Always check all the dates on your own!!***

# Getting permission to enrol



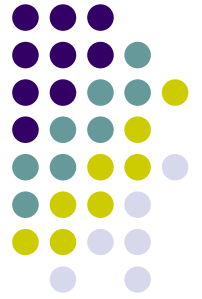
- If you do not have a UoM (University of Melbourne) undergraduate degree, you will need to get the approval of the course coordinator for all your classes.
- For this write to the course coordinator, including a copy of your transcript and explain which subjects you have taken meet the pre-requisites for the class.
- For undergraduate (3<sup>rd</sup> year) subject and non-MAST (maths and stats) classes you also need the approval of the MSc co-ordinator (DC).

# Important links



- Handbook: <https://handbook.unimelb.edu.au/2019/courses/mc-scimat>
- MSc & GDA: <https://ms.unimelb.edu.au/study/current-masters-and-pgdip-students>
- MSc Guide: <https://ms.unimelb.edu.au/?a=2924280>
- Staff: <http://ms.unimelb.edu.au/people/academic-staff>
- Supervisor list: <https://ms.unimelb.edu.au/study/supervisors-list>
- These slides: <http://www.dcrowley.net/MSc-Induction-2019-S2.pdf>

# Facilities and House-keeping:

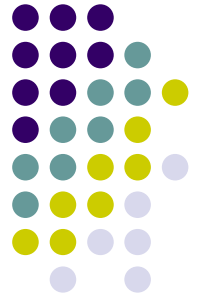


## In your New Student Packet:

- Checklist for your reference
- MSc & AGDip students have a *shared Hotdesk room* in **G13** for your **first semester**.
- Please treat desks in G13 like as you would a desk in a library.
- [PLEASE do not run large processes. Speak with IT dept to arrange alternative options.]
- We need to see your **student card** to give you swipe access.



# Facilities and House-keeping:



Information for students - emergency Procedures, first aid, reporting hazards...

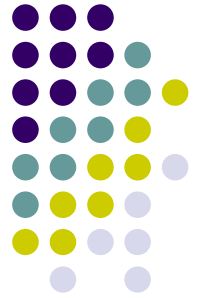
*PLEASE* come and chat with Kirsten any time.

*She is friendly.*

It is a demanding program.

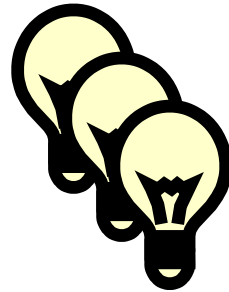
There are often stresses and issues.

**We really want you to succeed!**

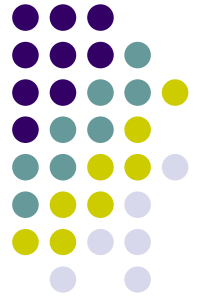


# Congratulations!!

- To us: we gained new **bright** advanced level students



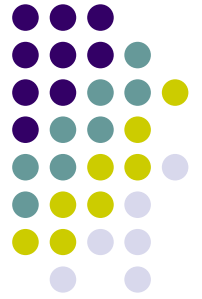
- To the new MSc & AGDip students: you made a good decision!
- *Chance favours the prepared mind*  
(Louis Pasteur) – so let's get it prepared!



# Areas of specialisation

The MSc program has four areas of specialisation, where are relevant for the course work structure of your degree:

1. Applied Maths and Mathematical Physics
2. Discrete Maths and Operations Research
3. Pure Maths
4. Statistics and Stochastic Processes



# Course work structure

- 11 Discipline subjects
- 1 Professional tools subject\*
- 4 ``subjects'' for the Research Project

$$11 = ((2 + 3) + 2) + 4$$

2 Core + 3 Elective in specialization (MAST)

2 in another specialization (MAST)

4 Further discipline (may include non-MAST)

\* May be waived.

Make a subject plan!!!

# The professional tools subject is compulsory



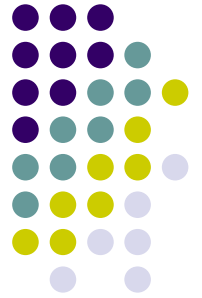
- In general, take one of
  1. MAST90045 Systems modelling & simulation
  2. COMP90072 The art of scientific computation
- This ensures all MSc graduates have some basic programming skills.
- If you have taken another class with a strong programming component, you may enroll in one of SCIE90012 Science Communication or SCIE90013 Communication for Research Scientists instead.



# Your MSc course plan

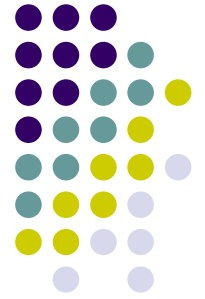
- **Make a subject plan for your MSc:**
- Check course pre-requisites in the handbook
- You may take 2\* third year MAST subjects if needed - this can be a very good strategy.
- Review and update your plan as your MSc progresses.

\* Possibly 4 with course co-ordinator (DC approval)



# Research project

- Find a supervisor in your **1<sup>st</sup> semester**.
- Aim to start in your **2<sup>nd</sup> semester**.
- Research 1 (12.5) - complete literature review
- Research 2 (12.5) - complete project review
- Research 3 (25) - complete thesis and presentation
- There are **pass/fail** hurdles for Res 1 and Res 2.
- Three semesters rule: **18 MONTHS, NO BREAKS.**
- Read the Handbook entry & the Guide!
- <https://handbook.unimelb.edu.au/view/current/MC-SCIMAT>

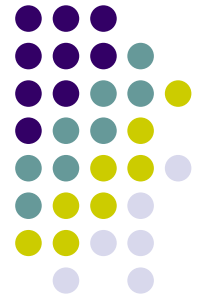


# Finding a supervisor

- Pathways to finding a supervisor:
- Lecturers
- MSc pages: *List of possible supervisors*
- Advisors by speciality:
  - Applied Maths– Barry Hughes
  - Pure Maths – Daniel Murfet & Arun Ram
  - Mathematical Physics – Thomas Quella
  - Operations Research – Peter Taylor
  - Discrete Maths – Michael Wheeler
  - Probability – Kostya Borovkov
  - Statistics – Guoqi Qian
- Once you find a supervisor, have them fill out the **Supervisor form** to finalise your enrollment.

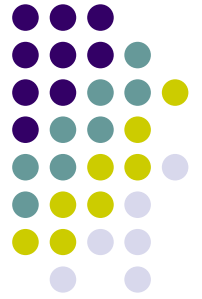


# Get oriented, get involved and stay in touch



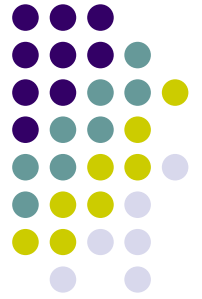
- E-mail: information is circulated regularly
- **Read email daily!**
- **Uni Handbook & MSc/AGDip Guide 2018**
- <https://ms.unimelb.edu.au/study/current-masters-and-pgdip-students>
- <https://ms.unimelb.edu.au/people/academic-staff>
- Attend your classes regularly: inform you lecturer if you have to miss a week of lectures

# Get oriented, get involved and stay in touch



- Attend the Departmental Colloquia (usually Tuesdays 12 noon; **read your e-mail!**)
- Attend research seminars
- You are expected to give  $\geq 2$  seminars (1+1).
- Attend MSc Master Classes
- Sunday August 4<sup>th</sup>: Maths & Music in Berlin1828

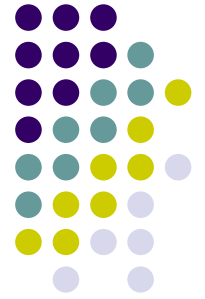
# StaMPS: Statistics and Mathematics Postgraduate Society



- MSc student seminar
  1. Weekly, Wednesdays at 12.00pm (from Week 2)
  2. Learn about the research interests of your fellow MSc students

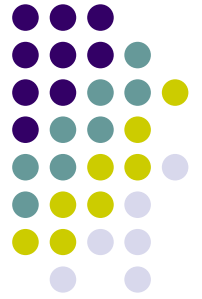
Contact: [stamp@ms.unimelb.edu.au](mailto:stamp@ms.unimelb.edu.au)

Sing up: <https://form.jotform.co/90508322063853>



# Some general advice

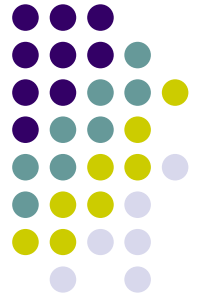
- Advanced level mathematics and statistics is difficult and rewarding:
  - Research is a (beautiful) challenge;
  - Reading your first research paper is tough;
  - Putting your thoughts on paper is an art;
  - Everybody is different.



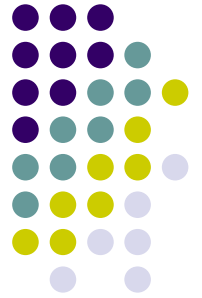
# Some more general advice

- *Let me tell you the secret that has led me to my goal: my strength lies solely in my tenacity*  
(Louis Pasteur)
- Time management is an essential skill for success
- Estimated time commitment: **170h** per subject
- Talk with your fellow MSc students (pause)
- Talk with your lecturers
- Life is good: always think positively
- *Smile... tomorrow will be worse* (Murphy's law)

# School Masters Scholarships



- There are School scholarships:
- \$2,000 per semester for full-time students ( $\geq 37.5 = 3$  subjects)
- Up to \$6,000 total per student.
- Keep your average mark at 75+!
- Announced after the census date of the following semester.
- There are also prizes for best final results and best research theses.

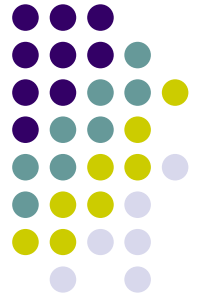


Help with choice of subjects & research topics,  
supervision and discussion of your research project,  
feedback, progress monitoring,  
advice on thesis writing etc.

Supervisor

Co-supervisor (if any)

MSc coordinator:  
Diarmuid Crowley

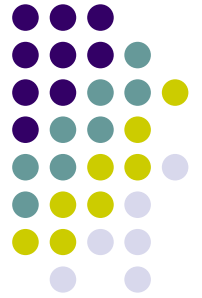


Coursework content and requirements,  
method of assessment, references, assignments,  
examinations and all other issues regarding your  
chosen subjects



Uni Handbook,  
Lecturers

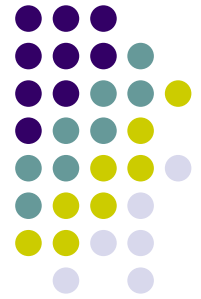




Desk allocation [Research 2],  
keys [if any], thesis submission [if any],  
other local administrative issues related to the  
MSc & AGDip programs



**Academic Support Officers**  
*Kirsten Hoak*



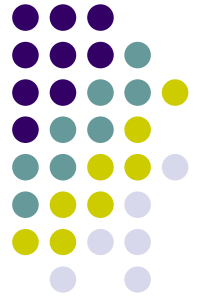
Computers, software, email accounts, document backup, Internet, other issues related to computing resources and support



University Services IT support: 834 40888

It is strongly recommended that you back up your files!!

Internet usage: No unauthorized movie/music downloading and/or audio/videoconferencing please.  
Draconian fines apply



Other Issues

MSc & AGDip coordinators

*A/Prof. Diarmuid Crowley*

Issues that cannot be resolved at the level of

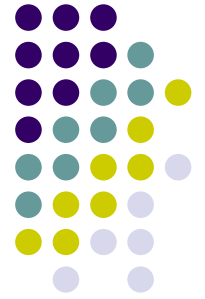
MSc & AGDip coordinators

Chair of PPC Committee

*Prof. Christian  
Haesemeyer*

Head of School

*Prof. Jan de Gier*



**Good luck!**