Welcome

John Patterson
- Associate Dean Research Faculty of Engineering and IT

Javid Atai
- Sub Dean Research Training

School Research Directors
- Abbas Jamalipour – Electrical and Information Engineering
- Federico Maggi – Civil Engineering
- Alejandro Montoya - Chemical and Biomolecular Engineering
- Bernhard Scholz – Information Technologies
- Lin Ye- Aeronautical, Mechanical and Mechatronics Engineering
Graduate School of Education and IT
- Lesley Vanderkwast
- Emily Major
RESEARCH METHODS INDUCTION DAY
TUESDAY 27 SEPTEMBER 2011
Flexible Teaching Space, lower level Chemical Engineering

Program

10.30    Organisational matters     Prof John Patterson

10.45-11.15  Design of good experiments: Key issues to consider in the design and execution of good experiments that advance knowledge and assist in the development of predictive capabilities.  
Prof Assaad Masri

11.15-11.45  Use of the library: Bibliographic Search, use of Citation indices  Ms Caroline Regan

11.45-12.15  Research Ethics     Ms Rebecca Halligan

LUNCH 12.15 – 1.15

1.15-1.45  Entrepreneurship – research in industry and commercialisation  Mr Anders Hallgren

1.45-2.15  IP Law  Ms Anna Grocholsky

2.15-2.45  Managing your research project – timelines, deadlines  Prof Liaquat Hossain

AFTERNOON TEA

3.15-3.45  Administrative matters: Probation, confirmation, literature review, Research proposal, Discussion Checklist, PRSS, APR process (timing)  Prof John Patterson
Second stage

RESEARCH METHODS WORKSHOP
WEDNESDAY 2 NOVEMBER 2011

• How to write a research proposal
• How to write a progressive literature review
• How to prepare a presentation, conference, seminar etc
• How to prepare a poster presentation?

Annual Progress Review to pass probation
• Attendance at the induction day and the workshop*
• Evidence of Draft Research Proposal
• Completed satisfactory Literature Review.

Necessary to attend both for confirmation of probation
*IT students do not need to attend the workshop, but must do the first stage AND unit INFO 5993
› Administrative matters
 Supervisor & Associate Supervisor

- You will have been discussing your candidature with one person. That person will be your main supervisor

- You are also required to have an Associate Supervisor
  - Back up to the main supervisor if something should happen
  - May be deeply involved in your project, or have limited involvement
  - You need to ensure that you meet regularly with your Associate Supervisor
Supervisor Check List

- Given to you today
- Means of clarifying the expectations that you and your main supervisor have of each other
  - Meeting frequency
  - Publication authorship
  - Software/equipment needs
  - Conferences/ travel
- Return to the GSE & IT after completion
Supervisor

- Most important person in your (university) life
- He/she will guide you for the next few years
  - Help select topics for research
  - Be a mentor in research and maybe other matters
  - Push you along if you start to weaken
  - Provide back up when difficulties strike
  - Help with problems in the School/University
  - Help you find a job at the end
- Your supervisor knows best!!
Confirmation

- You are all on probation for the first year of your enrolment. This is independent of whether you are full time or part time.
- You will be reviewed towards the end of your first year in the Annual Progress Review, and either confirmed or asked to undertake additional tasks and come back in a few months.

Requirements for confirmation
- Attendance at this event + the workshop later this semester*
- Satisfactory progress
- Preparation of a satisfactory draft literature review
- Preparation of a draft research proposal/plan

- If confirmation is not given, you will be asked to ‘show cause’ why your enrolment should not be terminated.
Annual Performance Review:

- Each student does this once per year, unless there is a problem
  - Students starting now will do this in November, with a follow up session later if necessary
  - Actual timing will be advised

- Each School does this differently
  - All will have a panel which will review your progress
  - You may be required to make a short presentation on your work
  - The panel will discuss with you what you have done, what problems there have been and suggest solutions and strategies
  - You will have the opportunity to talk to the panel in the absence of your supervisor and associate supervisor
  - May take between 0.5 – 1 hour
Follow up session

- Only necessary if there is a problem with the initial review
- Occurs a few months after the initial review, dates will be advised
- Only needed if progress has not been satisfactory
- Panel may set some milestones to be reached before the follow up session
- If still not satisfactory, may lead to a student being asked to ‘show cause’ why their enrolment should not be terminated.
Workshop

- Second part of the induction program
- 2 Nov, here
- This will provide, in a workshop environment, details on literature review and research proposal preparation
- YOU MUST ATTEND except for IT students, who must complete the Unit INFO 5993
Computer + other resources

- Your school is responsible for providing you with a new ‘standard’ desk top computer.
- Special needs are negotiated directly with your main supervisor
- You will also have been given library access, USyd network access, a desk and space etc
- Lab equipment, special software negotiated directly with your main supervisor
Postgraduate Research Support Scheme (PRSS)

- This is a small fund made available to postgraduates for travel, equipment etc to enhance their projects
- It is NOT meant to buy essential equipment
- Usually funds are very limited
- Mostly use for travel to conferences, thesis preparation
- Must be properly documented, supported by the supervisor
- Each School does this differently – process will be advertised at the time
Research Students Conference

- Held in 2nd semester – 31 October
  o Opportunity to present your work to other students
  o Excellent chance to network
  o Practice for conference presentations
  o Prizes
Thesis

This is a way off yet, but:

- Always takes longer than you think
- Your literature review – updated – will form part of it
- May get support from the PRSS for thesis production
› Please fill in the survey form

- We take your comments seriously and have modified this presentation in the light of the previous comments.
- Some of the information presented may be familiar to some and not to others, but let us know
- Use the information given in a positive way
- Network