



Lecture 01: Replace it!

This is a meaningful subtitle

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October 2, 2023



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Key topics today

- Module structure and coursework
 - i. Critical Proposal (15%)
 - ii. Mini-Dissertation (70%)
 - iii. Conceptual, Historical & Integrative Perspectives Log (CHIP Log) (15%)
- Labs in general and the lab tomorrow
- Materials, independent study, SUCCESS!





But seriously...

- Formerly worked in advertising industry for big agencies
- Impulsively started a Psych degree in 2006 (age 30+)
- My research interests are interpersonal deception, antagonistic personalities and behaviours, and how people obtain, process, and use social information/person perception in their everyday lives
- Got my PhD in 2014, post-doc with the Intelligence Agencies, Teaching Fellow then Lecturer in the department of Psychology
- And I **LOVE IT !!** The Psychology we do here is unique!



But first

- The importance of your ‘participation’
- If you don’t engage, it is difficult to respond to your needs
- I want you to find “**MyPsychology**”
- Easier to keep up than catch-up
- We have numerous safeguards in place to protect you this year
- The only thing that should be worried this year is Shoddy Science!



Module Overview



Module weighting and assessment

Research Methods is a core module with a 30 credit weighting

This means that in order to progress to Y3, you must pass all 3 assessment elements:

- - Critical Proposal 1,800 words (15%)
 - Mini-Dissertation 2,500 words (70%)
 - CHIP Learning Log 1,200 words (15%)



Welcome to Research Methods!

APA Skillful Psychology Student

 AMERICAN PSYCHOLOGICAL ASSOCIATION

THE SKILLFUL PSYCHOLOGY STUDENT

PREPARED FOR SUCCESS IN THE 21ST CENTURY WORKPLACE

Psychology provides skills that employers value.



COGNITIVE

Analytical thinking: Solve complex problems, attend to details, plan proactively, and display comfort with ambiguity.

Critical thinking: Display proficiency with statistics, program evaluation, and research design necessary for the study of social and technical systems.

Creativity: Use innovative and resourceful approaches to problem solving and new tasks.

Information management: Be adept at locating, organizing, evaluating, and distributing information from multiple sources.

Judgment and decision making: Engage in logical and systematic thinking and ethical decision making when considering the possible outcomes of a particular action.



COMMUNICATION

Oral communication: Demonstrate strong active listening and conversational abilities in both informal and professional environments, as well as aptitude for public speaking and communicating scientific information to diverse audiences.

Written communication: Comprehend relevant reading materials to produce professional documents that are grammatically correct, such as technical or training materials and business correspondence.



PERSONAL

Adaptability: Adjust successfully to change by responding in a flexible, proactive, and civil manner when changes occur.

Integrity: Perform work in an honest, reliable, and accountable manner that reflects the ethical values and standards of an organization.

Self-regulation: Manage time and stress by completing assigned tasks with little or no supervision; display initiative and persistence by accepting and completing additional duties in a careful, thorough, and dependable manner.



SOCIAL

Collaboration: Work effectively in a team by cooperating, sharing responsibilities, and listening and responding appropriately to the ideas of others.

Inclusivity: Demonstrate sensitivity to cultural and individual differences and similarities by working effectively with diverse people, respecting and considering divergent opinions, and showing respect for others.

Leadership: Establish a vision for individuals and for the group, creating long-term plans and guiding and inspiring others to accomplish tasks in a successful manner.

Management: Manage individuals and/or teams, coordinate projects, and prioritize individual and team tasks.

Service orientation: Seek ways to help people by displaying empathy; maintaining a customer, patient, or client focus; and engaging in the community.



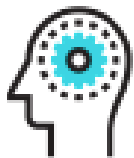
Flexibility/adaptability to new systems: Be willing and able to learn and/or adapt to new computer platforms, operating systems, and software programs.

Familiarity with hardware and software: Demonstrate competency in using various operating

Naufel, K. Z., Appleby, D. C., Young, J., Van Kirk, J. F., Spencer, S. M., Rudmann, J., ...Richmond, A. S. (2018).The skillful psychology student:



Cognitive Skills



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Communication Skills



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Social Skills



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Technological Skills



TECHNOLOGICAL

Flexibility/adaptability to new systems: Be willing and able to learn and/or adapt to new computer platforms, operating systems, and software programs.

Familiarity with hardware and software: Demonstrate competency in using various operating systems, programs, and/or coding protocols; troubleshoot technical errors; and use software applications to build and maintain websites, create web-based applications, and perform statistical analyses.



These are valuable skills

I'm going to try to 'connect the dots' for you along the way

- Cognitive (e.g., creativity and information management).
- Communication (e.g., active listening and public speaking).
- Personal (e.g., conscientiousness and integrity).
- Social (e.g., collaboration and leadership abilities).
- Technological (e.g., flexibility and familiarity with hardware and software).
- No actual mention of the 'content' - **Psychology** or **Research**



You aren't spectators any more, you're Scientists!

In small groups of 3 or 4 people, you will:

- Identify an area of psychological research
- Review and critique the literature in this area (Critical Proposal)
- Develop a testable hypothesis
- Design a 2x2 ANOVA experiment unique to you (within your group study)
- Obtain Ethical Approval for your experiment
- Collect REAL data
- Analyse these data
- Write up the results in APA format with Open Data and Materials (Mini-Diss)
- Reflect on your learning and development journey (CHIP Learning Log)



Consider it a ‘warm up’ for your Y3 Dissertation

- The same 20-week timeline
- The same skills and techniques you will need
- Careful step-by-step guidance and support in the lab setting
- Scaled-down experiments and write-ups - but all the same moving parts
- The security of working in a group
- Tips and advice from world-class researchers
- Opportunities to think carefully about your final year Dissertation, and how to crush it!!



Support and guidance

- Gordon (Module Coordinator and **Enthusiast in Chief**)
- 7 gobsmackingly amazing Lab Tutors
- Your Mini-Dissertation group (3 or 4)
- Your Personal Tutor
- Your PT group
- The entire Goldsmiths Research Community!

This is a team-sport



Access to me

I will be in every Research Methods lecture and I have a Student Hour from 3-4 every Monday, before we all go to the Design & Analysis lecture. Yup! Me too!

Available at g.wright@gold.ac.uk and my office is WB200/1

I genuinely could not imagine anything I would rather do than this. So please talk to me!



A friendly warning



Warning

All coursework is **INDIVIDUAL** and subject to normal plagiarism and collusion rules.

Just don't risk it. Be mindful of how you read, take notes and share coursework.



Module structure

1 x 1 hr Lecture per week (Monday 11-12 PSH LG02)

1 x 2 hr Lab per week (Tuesday in Whitehead)

4 x Personal Tutor meetings focussed on the Mini-Diss across the year



Weekly Structure (Lectures)

A brief weekly '**Prelude**' designed to introduce one of the main topics of the week (Not compulsory)

Lecture covering Methods relevant to your research, concepts and debates around CHIP, and previewing the lab session that week

- (recording posted automatically to Panopto)
- *Materials for following week posted on Wednesday evening
- CHIP-relevant topics to be approved as a group (more on that later)

*Accessibility is important to me, so please contact me with any concerns or requests



Weekly Structure (Labs)

- ‘Pulse’ taken on entry - 2 minute quiz - COMPULSORY
- **OneNote Lab Notebook** with brief ‘generative activities’ and opportunities for metacognitive reflection (wk2)
 - Your ‘Source of Truth’
- Lots can be achieved in the labs, but independent study and coordinated group work will be required
- This module is a ***process*** not a goal - approach it like an experiment!
- **NO EXAM**
 - **Extras** provided around skills or applications or just interesting stuff (Not compulsory)



Coursework

The courseworks ALL require reflection and metacognitive practice. This will be discussed in a number of lectures, but it contributes to effective learning and your integration of the skills and experience.



Time management and teamwork

..will both be required.

I ask you to see both as an **opportunity** to deliberately practice these important skills.

You will see we have some ideas to make this more relevant to careers and employability.

It is easier to 'keep up than to catch up'.



Resources

We will be releasing a **series** of valuable resources to help you through every step of the process

These will **entirely relevant** to your final year dissertation also.

Contribution to and comment on these is welcome and hoped for!

Open Educational Resources will be used extensively, and most core readings are available online via the library.



Lectures Term One

LECTURE SCHEDULE		
Autumn Term	Topic	Who?
Lect 1	Module overview and what is Science?	GW
Lect 2	Asking good questions and gathering evidence	GW
Lect 3	Being critical and evaluating the work of others	GW
Lect 4	There is no 'I' in Psychology, or 'me'! MeSearch, Research & Inclusivity	GW
Lect 5	The Open Science movement in Psychology	GW
Lect 6	Operationalisation of variables and bringing concepts to life	GW
Lect 7	How do we measure or assess psychological concepts and constructs?	GW
Lect 8	Developing and validating a psychological measure of 'X'	GW
Lect 9	Communicating science: Lessons from legends	GW
Lect 10	Introducing the wonders of Qualitative research	GW



Lectures Term Two

Spring Term	Lecture Schedule	
Lect 11	Qualitative research in application	GW
Lect 12	Blending the Qs - Mixed Methods	GW
Lect 13	Psychologist for hire!	GW
Lect 14	Year 3 Preview Session	TP/GW
Lect 15	A deep dive on Inclusivity	TP
Lect 16	"No about me, without me!" Participatory research	TP
Lect 17	What questions is Psychology missing?	GW
Lect 18	So what is 'MyPsychology'	GW
Lect 19	A new 'People Science'	GW
Lect 20	Roundup, reflection and retrospective	GW



Labs Term One

LAB SCHEDULE		
Autumn Term	Topic	Who?
Lab 1	Welcome to the Lab - onboarding and topic brainstorming	Lab Tutors
Lab 2	The research process , time management & teamwork	Lab Tutors
Lab 3	Literature search, review, management & the Critical Proposal	Lab + PTs
Lab 4	Experimental variables, design and notation	Lab Tutors
Lab 5	Critical Proposal support and Power Calculations	Lab Tutors
Lab 6	Online and offline data collection	Lab Tutors
Lab 7	Task development and Ethics applications	Lab Tutors
Lab 8	Task development and Ethics workshop [Peer Review]	Lab + PTs
Lab 9	Recruitment and thinking ahead to your Year 3 Dissertation	Lab Tutors
Lab 10	Pre-registration, Open Methods and Open Data	Lab Tutors



Labs Term Two

Spring Term	Lab Schedule	
Lab 11	Data collection Beginning writing up	Lab Tutors
Lab 12	Data collection Focus on the Method section	Lab Tutors
Lab 13	Data collection Analysis plan	Lab + PTs
Lab 14	Data collection Year One Showcase	Lab Tutors
Lab 15	Data collection Data screening, cleaning & pre-processing	Lab Tutors
Lab 16	Analysis The 3 flavours of ANOVA and post-hoc tests	Lab Tutors
Lab 17	Analysis Focus on Results, figures and tables	Lab Tutors
Lab 18	Writing up Focus on the Introduction & APA style	Lab Tutors
Lab 19	Writing up Interpreting and discussing your results	Lab + PTs
Lab 20	Writing up Open Data, Materials and final edits	Lab Tutors



Mini-Dissertation structure

Your individual Mini-Dissertation project **MUST** conform to the following definitive rules:

- **2x2 ANOVA design with 2 categorical IVs (each with 2 levels) and a single continuous DV**
- **You must obtain ethical approval and show individual involvement in the process of application**
- **You must make a sample size estimation / Power calculation**
- **You must contribute to group recruitment and data collection efforts either online or in-person**



Mini-Dissertation Submission

Your Mini-Dissertation final submission must comprise ALL of the following COMPULSORY elements:

- a 2,500 word APA7 empirical paper with a complete reference list and appendices
- Open Data - a single, cleaned, clearly-labelled data set
- Open Materials - a complete, replication-ready materials package detailing materials relevant to your individual write-up
- A reflective account covering the Mini-Dissertation AND the PS52005C Design & Analysis quizzes and how they contributed to your development this year



Illustrative MD topics

- The effect of gender stereotype and task difficulty on memory performance
- The role of facial symmetry and filter type on ratings of attractiveness of online dating profile pictures
- Exposure to negative news media, trait anxiety and the BAME community under COVID-19
- The effects of Agentic and Communal Narcissism, attitudes towards COVID-19 and lockdown compliance
- The effect of personality and sleep disturbance on academic performance
- Need for cognition, pre-sentencing information and perceptions of guilt in a jury decision making task



But let's deep dive this one

The effect of Conscientiousness and Caffeine intake on Academic Self-Handicapping

- *The effect of Independent Variable 1 and Independent Variable 2 on a continuous Dependent Variable*
- Conscientiousness (Low or high - Independent Variable IV1)
- Caffeine intake (Low or high - Independent Variable IV2)
- Academic Self-Handicapping (6 item 1-5 Likert style, 'continuous' Dependent Variable DV)
- What about the other 3 people in the group?



Rest of the group:

The effect of Conscientiousness and Caffeine intake on Academic Self-Handicapping

1. Extraversion (Low/High) & Sleep (Sound/Disturbed) on ASH
2. Openness to experience (Low/High) & Family Attitude to Education (Pro/Con) on ASH
3. Neuroticism (Low/High) & Attitude to Feedback (Open/Sensitive) on ASH
 - Not too complicated, right?
 - Can you see the economies of effort and implicit support opps?



Lab 01

- Scan your attendance (?) and sit down to complete the short 'Entry Pulse' poll (Compulsory each week).
- Verify access to IT systems (e.g. the critically important OneDrive) and add a signature to your emails to assist College answering any questions you have.
- Start brainstorming ideas for research topics for your Mini-Dissertation.
- Consider 'how' you want to work this year - Help co-create a 'Lab Ethos' that we can share openly.
- Detailed information in the Lab 01 'Book' on the VLE



Please don't get hung up on topic selection

Tip

You might think coming up with a research topic is a difficult thing. For this year, it is NOT super-important. Your Lab Tutors will be available to help you make sure it's feasible, challenging enough but not too difficult etc.

It does help if you are interested in it though, as it will help keep motivation up!



Some things to consider



Caution

- Picking something without much of a literature behind it can make life VERY difficult
- We will try to make sure things remain manageable, we are not trying to 'restrict' you
- You will not be able to do research
 - on Children
 - on Vulnerable or protected groups
 - using methods that require extensive training or specialist facilities (e.g. EEG, TMS)
 - that raises anything more than mild ethical considerations
 - for which recruitment will be too onerous or time-consuming



Defining how you wish to work

We would like you to compose a ‘code of conduct’ or ‘Lab ethos’ applicable to us all this year.

Goldsmiths Student Charter (2012) Does much change in a decade?

BPS Research Ethics (respect, competence, responsibility, integrity)

Corporate Culture (e.g. “***Move fast and break things***”

i.e. approaching the task with an emphasis on speed, disruption and experimentation)

Innovative Teaching (e.g. The Hacker School/Recurse Center - No feigning surprise, No ‘Well-Actually’s, No back-seat driving, no subtle -isms)



How will we approach the following?

Inclusivity, Diversity, Equity, Privilege, Power, Intersectionality
Communication, Accommodation, Environment, Accessibility,
Collaboration



Data Carpentry suggests the following for their labs

- Use welcoming and inclusive language
- Be respectful of different viewpoints and experiences
- Gracefully accept constructive criticism
- Focus on what is best for the community
- Show courtesy and respect towards other community members



Recurse Center 'Social Rules'





On behalf of the whole teaching team

Have a wonderful year!

Any Questions?



References

