

SIOG 239B - Geophysics Research Skills II - Effective Presentation Techniques

Winter 2022

Instructor: Dave May (dmay@ucsd.edu)

1. Overview and Objectives

This unit is intended to provide you with basic skills to assist you with the scientific / research outputs you will be required to produce throughout your PhD. In this unit we will focus on the creation and design of figures, posters and talk slides, as well as developing your skills in giving different types of oral presentations.

The course material is intended to be practical and useful for your PhD research. As such, you will develop awareness and knowledge of how to use various software tools to create your figures, posters and talk slides.

2. Course Format

Two 50 minute sessions per week

- Monday 13:10 - 14:00
- Tuesday 13:10 - 14:00
 - 11 lectures
 - 3 discussion sessions
 - 4 practical sessions

1 hr of "office hour" per week:

- Tuesday 14:00-14:45 (immediately after the lecture).
- You will each be assigned a 15 minute time slot to meet with me twice within the quarter.

Each 50 minute sessions will be recorded and available via Canvas. All lecture slides will be uploaded into Canvas after each lecture.

3. Schedule (Course Material)

Below is a tentative schedule.

Topics may shift depending on progress and feedback throughout the quarter.

LEGEND: "L" = lecture; "D" = discussion; P" = practical; "HW" = homework

Week	Date	Topic	Action
1	03-Jan	(L) Fonts and typesetting	
	04-Jan	(L) Color	
2	10-Jan	(L) Images	
	11-Jan	(L) Figures: Design, layout & tools	HW01 issued: Re-design a figure.
3	17-Jan	Martin Luther King Jr. Holiday	
	18-Jan	(L) Plots: types and tools	HW02 issued: Make a plot.
4	24-Jan	(D) Figure walk-through	HW01 due 23-Jan
	25-Jan	(L) Copyright; Talks: Oral presentation formats	HW03 issued: Prepare a 5 min. talk about your research.
5	31-Jan	(L) Talks: Preparation & structure	
	01-Feb	(L) Talks: Slide contents	HW02 due 01-Feb
6	07-Feb	(L) Talks: Presentation delivery	
	08-Feb	(D) Talks: Discussion based on IGPP speaker	Attend IGPP seminar at noon 08-Feb.
7	14-Feb	(P/D) Reseach talk - 1	HW03 due 13-Feb
	15-Feb	(P/D) Reseach talk - 2	
8	21-Feb	President's Day Holiday	

	22-Feb	(L) Posters: Style, layout / design tips	HW04 issued; HW05 issued. See below.
9	28-Feb	(D) Posters: Examples	
	01-Mar	(L) Posters: Tools, printing, figure considerations	
10	07-Mar	(P/D) 2 min. poster talks	HW04 due 06-Mar
	08-Mar	(P/D) Poster walkthrough	HW05 due 07-Mar

4. Schedule (Office Hours)

Every Tuesday from 14:00-14:45 (immediately after the lecture).

	Person	Week (time)	Week (time)
1	Evan Anderson	1 (:00)	6 (:00)
2	Matthew Brandlin	1 (:15)	6 (:15)
3	Chih-Chieh Chien	1 (:30)	6 (:30)
4	Nicolas Desalvio	2 (:00)	7 (:00)
5	Rebecca Gjini	2 (:15)	7 (:15)
6	Xinyu Luo	2 (:30)	7 (:30)
7	Anupam Patel	3 (:00)	8 (:00)
8	John Rekoske	3 (:15)	8 (:15)
9	Chance Roberts	3 (:30)	8 (:30)
10	Guilherme Weber Sampaio De Melo	4 (:00)	9 (:00)
11	Raymond Thicklin	4 (:15)	9 (:15)
12	Ian Vandevent	4 (:30)	9 (:30)
13	Jeremy Wong	5 (:00)	10 (:00)
14	Jeena Yun	5 (:15)	10 (:15)
15	Xiaoyu Zou	5 (:30)	10 (:30)

5. Assessment

There will be no graded assessments. Five assignments / tasks will be distributed throughout the quarter. These are summarized below.

Homework 1

- Re-design a figure provided to you.
- Issued January 11 - due January 23.
- All submissions will be displayed and discussed in the lecture slot on January 24.

Homework 2

- Create a plot using data provided.
- Issued January 18 - due February 01.

Homework 3

- Prepare slides for a talk about your research. The presentation length is to be 5 minutes.
- Issued January 25 - due February 13.
- All submissions will be presented and discussed in the lecture slots on February 14 and February 15.

Homework 4

- Make a 2 slide presentation your poster. Present your slides in 2 minutes.
- Issued February 22 - due March 06.
- All submissions will be presented and discussed in the lecture slot on March 07.

Homework 5

- Prepare a poster about your research.
- Issued February 22 - due March 07.
- All submissions will be presented and discussed in the lecture slot on March 08.

All assessments are to be submitted via Canvas.

6. Expectations

- Attend all scheduled lectures.
 - If you cannot attend a lecture - please inform me in advance.
- Attend your scheduled office hours meeting.
 - If you cannot attend on that day / time, please inform me to arrange an alternative time.
- Attend the IGPP seminar (Tuesday at 12:00).
- Submit all required assignments. Assignments will not be accepted late.

- You may consult any online resources, your fellow students and your instructor for help. When utilizing online resources or when working in a group, please refer to section 7 Academic Integrity (below) to ensure you give the appropriate acknowledgement or attribution to work which you are not the sole author of.

7. Academic Integrity

All coursework that you will produce in this unit should be *original work* that is yours alone. Copying work or the re-use of any material without proper acknowledgement or attribution is considered plagiarism. At UCSD, plagiarism is not acceptable.

Guidelines for giving proper acknowledgement or attribution to others work is provided below.

- If you worked in a group, you need to indicate all people involved in the group work and clearly state what your contributions were.
- If you use material from another student, you need to indicate who the student was and detail exactly what material was re-used and state clearly any modifications you made to their work.
- Online material
 - If you used a tutorial (i.e. followed it extensively) you must provide the URL (web address) of the original material and indicate that you used an online resource as part of your submitted work. You must indicate which parts of the tutorial you used.
 - If you used a script, or piece of computer code (e.g. taken from the tutorial, or a site such as StackOverflow) you must provide the URL of the original material. You must submit the original script / code in the form of an appendix with your submission. You must also indicate if you did, or did not, modify the original material. If you modified the original material, you must detail the modifications made. Care must be taken to ensure that the website and or authors copyright policy on the script / code is not violated. If in doubt - please consult me.
 - If you re-use a figure you must provide the URL of the original material. You must indicate if you are re-using the original figure or if you modified it. Care must be taken to ensure that the website and or authors copyright policy on the figure is not violated. If in doubt - please consult me.
- If you re-used material (e.g. a figure) from a published article, you must provide the appropriate reference to the document (author, article title, journal name, volume/issue, year, article page numbers, DOI). Care must be taken to ensure that the journals copyright policy is not violated. If in doubt - please consult me.

8. Students with Disabilities

Students requesting accommodations for this course due to a disability must provide a current Authorization for Accommodation (AFA) letter issued by the Office for Students with Disabilities (OSD) which is located in University Center 202 behind Center Hall. Students are required to present their AFA letters to faculty (please make arrangements to contact the instructor privately)

and to the OSD Liaison in the department in advance so that accommodations may be arranged. Contact the OSD for further information.

- **phone** 858-534-4382
- **email** osd@ucsd.edu
- **website** <https://disabilities.ucsd.edu>

9. Student Affairs

Throughout your time at UC San Diego, you may experience a range of issues that can negatively impact your learning. These may include physical illness, housing or food insecurity, strained relationships, loss of motivation, depression, anxiety, high levels of stress, alcohol and drug problems, interpersonal or sexual violence, or grief. Such issues may lead to diminished academic performance and affect your ability to participate in day-to-day activities. If there are issues related to coursework that are a source of particular stress or challenge, you may speak with your instructor, so that they are able to support you. Additionally, UC San Diego provides several resources available all enrolled students, including:

- Counseling and Psychological Services | **phone** 858-534-3755, **website** <https://caps.ucsd.edu>
- Student Health Service | **phone** 858-534-3300, **website** <https://studenthealth.ucsd.edu>
- CARE at the Sexual Assault Resource Center | **phone** 858-534-5793, **website** <https://care.ucsd.edu>
- The Hub Basic Needs Center | **phone** 858-246-2632, **website** <https://basicneeds.ucsd.edu>

10. Copyright

All course materials (class lectures and discussions, handouts, examinations, web materials) and the intellectual content of the course itself are protected by United States Federal Copyright Law, the California Civil Code. The UC Policy 102.23 expressly prohibits students (and all other persons) from recording lectures or discussions and from distributing or selling any course materials without the prior written permission of the instructor. Students are permitted to make notes solely for their own private educational use. Exceptions to accommodate students with disabilities may be granted with appropriate documentation. See <https://policy.ucop.edu/doc/2710530/PACAOS-100>.