Current Topics and Best Practices in Research Ethics

UCSF Winter/Spring 2024 RCR for Postdocs

Basic Course Information
Lecture Meeting Dates, Locations & Times

Date	Time	Location
Fri, Feb 9, 2024	Reserved 12:30 - 4:30 Record 1:00 - 2:15	HSW 300 Parnassus
Fri, Feb 16, 2024	Reserved 12:30 - 4:30 Record 1:00 - 2:15	Gen Aud, Mission Bay
Fri, Feb 23, 2024	Reserved 12:00 - 4:30 Record 1:00 - 2:15	Gen Aud, Mission Bay
Fri, Mar 1, 2024	Reserved 12:00 - 4:30 Record 1:00 - 2:15	Gen Aud, Mission Bay
Fri, Mar 8, 2024	Reserved 12:00 - 4:30 Record 1:00 - 2:15	HSW 301, Parnassus
Fri, Mar 15, 2024	Reserved 12:30 - 4:30 Record 1:00 - 2:15	HSW 302, Parnassus
Fri, Mar 22, 2024	Reserved 12:00 - 4:30 Record 1:00 - 2:30	Gen Aud, Mission Bay
Fri, Apr 5, 2024	Reserved 12:00 - 4:30 Record 1:00 - 2:30	Zoom

Faculty Facilitated Zoom Discussion Sections Dates & Times (Zoom)

Date	Time	Location
Mon, Feb 12, 2024	Session 1 Breakout 1:00-2:30	Zoom
<mark>Tues, Feb 20, 2024</mark>	Session 2 Breakout 1:00-2:30	Zoom
Mon, Feb 26, 2024	Session 3 Breakout 1:00-2:30	Zoom
Mon, Mar 4, 2024	Session 4 Breakout 1:00-2:30	Zoom
Mon, Mar 11, 2024	Session 5 Breakout 1:00-2:30	Zoom
Mon, Mar 18, 2024	Session 6 Breakout 1:00-2:30	Zoom

Instructional Team

Lecture Lead

Tori Sharma, Research Administration and Compliance

E-mail: vsharma@berkeley.edu

Faculty Discussion Section Leaders (~4 per Zoom required to float across breakouts; faculty may sign-up for multiple discussion group dates.) Faculty facilitator content and training to be provided by Tori Sharma.

Victor.Valcour@ucsf.edu
Jayanta.Debnath@ucsf.edu
Philip.Norris@ucsf.edu
Rosemary.Akhurst@ucsf.edu
Eric.Huang2@ucsf.edu
Judith.Ashouri@ucsf.edu
Thea.Tlsty@ucsf.edu
Judith.Hellman@ucsf.edu
Alexis.Combes@ucsf.edu
Rushika.Perera@ucsf.edu
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UCSF Lecturers

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Ivana Neff, UCSF Conflict of Interest Unit Manager, Ethics & Compliance
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Thomas Lang, PhD, COIC Chair (INVITED)
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Denise Caramagno, MA, LMFT Denise.Caramagno@ucsf.edu 415-640-9080
Confidential CARE Advocate, Co-Director of CARE Program
https://careadvocate.ucsf.edu/

Kendra Hypolite, MSW, ASW Kendra.Hypolite@ucsf.edu 415-269-5935

CARE Advocate for Racial Justice, Co-Director of CARE Program
https://careadvocate.ucsf.edu/

Required Materials

The course will be using **PollEverywhere** to make class time more engaging. This will give postdocs the chance to participate and increase engagement in the class.

Participating in the PollEverywhere part of class will be counted towards your final grade. Attendance and engagement will be monitored. Attendance is required and participation in in-class activities is expected to be 75% or higher.

You are required to participate with a smartphone, tablet or laptop. We will display QR codes and urls for each PollEverywhere poll.

You are required to complete advance readings before each 75 minute lecture.

You are required to participate in all the Zoom discussion sessions. If you miss a Zoom session, speak to the facilitator about make-up requirements.

Course Description

The purpose of this course is to ensure that postdoctoral research trainees are well versed with respect to training in responsible conduct in research (RCR). Attendees also gain an understanding of federal, state, and UCSF policies and resources available to further support their research endeavors.
Methods of Instruction:
- Course meetings include lectures, case studies, and group discussions.
- Discussion section meetings include case studies and interactive group discussions in smaller groups.

Learning Outcomes

In this course, you will:
- Learn and share best practices for promoting rigor and reproducibility in

research, authorship and publication, and mentorship through workshop style activities with your peers.

- Discover and practice strategies for promoting diverse research communities free of harassment and non-inclusive behaviors.
- Discuss and analyze current ethical research topics surrounding human subjects.
- Review best practices for data management and understand new federal data sharing requirements.
- Learn to identify potential conflicts of interest and how to report and manage them.
- Become familiar with important concepts and reporting requirements for research security including export controls, dual use research, foreign influence, and data security.
- Employ strategies to avoid authorship disputes and questionable publication practices.
- Understand the importance of peer review and generate responsible peer reviews.

Evaluation of student performance

- Attendance is required for at least 100% of live sessions in order to receive credit for the course.
- **PollEverywhere** will be used for monitoring attendance and classroom assessments. PLEASE BE SURE TO BRING YOUR DEVICE
- Attendance will be taken during each lecture and discussion section.
- If you have an emergency, you can contact the course lead regarding make up requirements. All sessions will be recorded in CLE and linked to the syllabus. Making up a session due to an emergency will involve submitting bulleted notes (1-2 pages) of the recorded lecture by email.
- If you have an emergency, you can turn in make-up assignments by email with the RE line **Spring 2024 UCSF RCR Make-up** before the last day of class.
- If you have not attended at least 100% of the live sessions, per NIH requirements, or been excused due to an emergency, your final course grade will be FAIL and you will need to repeat the course when it is offered again.

Absence Policy

- Postdocs wishing to receive a course grade of Pass will need to attend 100% of live sessions. If you miss any session due to an emergency, you will be required to make up the lecture by watching the recording and submitting a one-page summary write up of the session and include relevant discussion questions on the topic.
- If you must miss more than one lectures, you will need to repeat the course at a later date.
- If you must miss a session, it must be for emergency purposes only (i.e. work-related travel to an investigation research site or a meeting for a presentation). You will still be required to make up the lecture as described above as well as submit documentation of the research travel activity to the instructor.
- Missed discussion sessions must be addressed with the faculty facilitator for make-up.

If you are ill and therefore need to quarantine, please stay at home. Let the course instructor or OPS know via email as soon as possible. We will work with you on the course completion with proof of illness.

Lecture Topics Schedule

Session 1: Tori Sharma (75 min)

Pre-viewing: [The Reproducibility Crisis in Historical Perspective | Nicole C. Nelson || Radcliffe Institute](#)

Types of Scientific Research at UCSF

Views about Scientists as Responsible Members of Society

Best Practices in Rigor and Reproducibility- workshop

Anonymous survey on misconduct and reproducibility

Best Practices in Mentorship- workshop

Session 2: Tori Sharma (75 min)

New Guidance on Foreign Influence and Research Security

Conflicts of Interest Overview & Importance of Addressing Conflicts

Contemporary Ethical issues in Biomedical Research

Social and Environmental Impacts of Research

Session 3: Tori Sharma (75 min)

Best Practices in Data Management - Qualitative and Quantitative

New Federal Sharing Requirements

Developing a Data Management Plan (DMP)

Open AI, Generative AI, Data Manipulation and Plagiarism

Data transparency information from Nature and Cell Press journals (refer to comprehensive checklists)

Statistical Analysis of Biological Data (See UCSF Library Resources)

Data Sharing during PI Transitions

Session 4: Tori Sharma (75 min)

Pre- reading: From tort law to cheating, what is ChatGPT's future in higher education?

Human Subjects Research-- COVID-19 Vaccines and CRISPR Therapies

Informed Consent Monitoring

Protection of Laboratory Animals and the Role of Postdocs in Animal Welfare

Approved Lab Researchers and IACUC Protocols

Policies and Best Practices on Laboratory Safety, Biosafety, and Animal Research Subjects

Session 5: Tori Sharma (75 min)

Best Practices in Authorship and Publication- workshop

Ethics and Ownership of Discoveries

New Guidance on Text Recycling

Practicing Responsible Peer review and Becoming a Reviewer

Addressing Questionable Research Practices

Session 6: SPECIAL SESSION- GUEST SPEAKER- Denise Caramagno

and Kendra Hypolite from UCSF CARE, (75 min)

Developing Inclusive Research Communities (Racism in Science)

Prevention of Sexual Harassment and Violence

Appropriate Support and Management of Postdocs with Disabilities

Bullying, Civility, Harassment, and Inappropriate Behavior in Research Environments

Effective Collaboration in Research

Session 7: Ethical Behavior in Mentoring Research Trainees (90 min)

Appropriate Mentoring and Lab Relationships between PIs and Postdocs

Strategies for Having Difficult Conversations

Resolving Conflicts and Communicating with Impact

Mentor/Mentee Responsibilities and Relationships

Mentoring Frameworks and Self Advocacy

Session 8: UCSF Postdoc Trainee Ethics and Compliance Conflicts of Interest (90 min)

Understand UCSF COI requirements for Postdocs UPAY585
        -personal, professional, financial
Postdoc Outside Professional Activity at UCSF

Building a Career-Long Positive Attitude toward Research Ethics

Reporting UCSF Conflicts of Interest

Discussion Topics Schedule

Session 1: The Reproducibility Crisis

Session 2: Research Misconduct and Social Responsibility

Session 3: Responsible Authorship, Publication, and Peer Review

Session 4: Mentor/Mentee Responsibilities and Relationships

Session 5: The Protection of Human Subjects and Welfare of Laboratory Animals

Session 6: Conflicts of Interest and Collaborative Research and Professionalism

Session 7: Ethical Behavior in Mentoring Research Trainees

Session 8: UCSF Postdoc Trainee Ethics and Compliance Conflicts of Interest

Additional Online Resources

On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition

Office for Human Research Protections (OHRP)

Online Ethics Center for Engineering and Research

Important UCSF Data Resources

UCSF Library Statistics and Big Data Analytics Workshops and Courses

Accommodations for Students with Disabilities

Please contact the course instructor as soon as possible if you need accommodations, and we will work out the necessary arrangements.

Policy on Violence and Harassment

Our goal is that this classroom is a participatory community where everyone can fulfill their potential for learning; there is no place for sexual harassment or violence. If your behavior harms another person in this class, you may be removed from the class temporarily or permanently, or from the University. If you or someone you know experiences sexual violence or harassment, there are options, rights, and resources, including assistance with academics, reporting, and medical care.

NIH Requirements for RCR: Updated Guidance.

The goals of RCR education and training are to:

- Develop, foster, and maintain a culture of integrity in science.

- discourage and prevent unethical conduct.

- empower researchers to hold themselves and others accountable to high ethical standards.

- increase knowledge of, and sensitivity to, ethical issues surrounding the conduct of research by researchers with diverse backgrounds.

- improve the ability to make responsible choices when faced with ethical dilemmas involving research.

- provide an appreciation for the range of accepted scientific practices for conducting research.

- inform scientists and research trainees about the regulations, policies, statutes, and guidelines that govern the conduct of U.S. Public Health Service-funded research and promote compliance with the same; and,

- promote a career-long positive attitude toward research ethics and the responsible conduct of research.

https://www.signupgenius.com/go/10C094AA4AD29A2FEC16-46134126-faculty#/

Zoom Session1: Faculty Facilitators: Mon, Feb 12, 2024 1:00-2:30 The Reproducibility Crisis in Historical Perspective | Nicole C. Nelson || Radcliffe Institute

Types of Scientific Research at UCSF

Views about Scientists as Responsible Members of Society

Best Practices in Rigor and Reproducibility- workshop

Anonymous survey on misconduct and reproducibility

Best Practices in Mentorship- workshop

1.Victor Valcour
2 Jay Debnath
3. Philip Norris
4. Rosemary Akhurst
5.Judith Ashouri
6.Thea Tlsty

Zoom Session 2: Faculty Facilitators: Tues, Feb 20, 2024, 1:00-2:30 Research Misconduct and Social Responsibility

New Guidance on Foreign Influence and Research Security

Conflicts of Interest Overview & Importance of Addressing Conflicts

Contemporary Ethical issues in Biomedical Research

Social and Environmental Impacts of Research

1.Victor Valcour
2.
3.
4.
5.
6.

Zoom Session 3: Faculty Facilitators: Mon, Feb 26, 2024, 1:00-2:30 Responsible Authorship, Publication, and Peer Review

Best Practices in Data Management - Qualitative and Quantitative
New Federal Sharing Requirements
Developing a Data Management Plan (DMP)
Open AI, Generative AI, Data Manipulation and Plagiarism
Data transparency information from Nature and Cell Press journals (refer to comprehensive checklists)
Statistical Analysis of Biological Data (See UCSF Library Resources)
Data Sharing during PI Transitions

1.Jay Debnath
2. Philip Norris
3.Rosemary Akhurs
4.Eric Huang
5. Alexis Combes
6. Rushika Perera
7.Catera Wilder
8.Judith Hellman
9.Emily Goldberg
10.Sergio Baranzini

Zoom Session 4: Faculty Facilitators: Mon, Mar 4, 2024, 1:00-2:30 Mentor/Mentee Responsibilities and Relationships Pre- reading: From tort law to cheating, what is ChatGPT's future in higher education?

Human Subjects Research-- COVID-19 Vaccines and CRISPR Therapies

Informed Consent Monitoring

Protection of Laboratory Animals and the Role of Postdocs in

Animal Welfare

Approved Lab Researchers and IACUC Protocols

Policies and Best Practices on Laboratory Safety, Biosafety, and Animal Research Subjects

1.Philip Norris
2.Eric Huang
3.Julie Saba
4.Alexis Combes
5.Prescott Woodruff
6.Margaret Feeney.
7.Sergio Baranzini

Zoom Session 5: Faculty Facilitators: Mon, Mar 11, 2024, 1:00-2:30 The Protection of

1.Victor Valcour
2. Julie Saba
3. Catera Wilder
4.Judith Hellma

Human Subjects and Welfare of Laboratory Animals

Best Practices in Authorship and Publication- workshop

Ethics and Ownership of Discoveries

New Guidance on Text Recycling

Practicing Responsible Peer review and Becoming a Reviewer

Addressing Questionable Research Practices

Zoom Session 6: Faculty Facilitators: Mon, Mar 18, 2024, 1:00-2:30 Conflicts of Interest and Collaborative Research and Professionalism Laboratory Animals

Developing Inclusive Research Communities (Racism in Science)

Prevention of Sexual Harassment and Violence

Appropriate Support and Management of Postdocs with Disabilities

Bullying, Civility, Harassment, and Inappropriate Behavior in Research Environments

Effective Collaboration in Research

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2.Philip Norris
3.Alexis Combes