

**UNIVERSITY OF FLORIDA COLLEGE OF MEDICINE SYLLABUS  
NEUROSCIENCE**

**GMS 6029 ERS-AI Journal Club (1 credit)**

Spring 2023

Delivery Format: In person, Wednesdays 10 AM – 11 AM, in Room L1-108

**Instructors:**

**Dr. Paola Giusti-Rodriguez**

Assistant Professor, Department of Psychiatry, Division of Adult Research

giustirodriguezp@ufl.edu

352-294-4295

**Dr. Tezcan Ozrazgat-Baslanti**

Research Assistant Professor, Department of Anesthesiology

Statistical Core Lead, PRISMAp

tezcan@php.ufl.edu

352-273-6668

**Dr. Pinaki Sarder**

Associate Professor of Quantitative Health, Department of Medicine

Associate Director for Imaging, Intelligent Critical Care Center (IC3)

pinaki.sarder@medicine.ufl.edu

352-273-8821

**Office Hours:** By Appointment

**Preferred Course Communications:** Email

**Prerequisites:** Doctoral student in the ERS-AI program

**Purpose and Outcome:**

Through classroom lecture, figure fact sheets, oral presentation, and paper discussions, students will learn how to read, critically evaluate, and discuss research papers focusing on developing AI pipelines to solve a broad range of biomedical research problems, involving novel AI model development as well as AI ethics and trustworthiness. Students will learn how to present the scientific results orally to a broad group of stakeholders of clinical and biomedical AI involving fellow colleagues, lay persons, clinical doctors, and patients. They will gain in-depth knowledge about a broad range of biomedical research problems requiring AI to solve and gain insight into how to design pertaining experiments and ask a scientific question. Students will learn how to apply AI skills to answer new biomedical questions.

**Course Overview:**

This journal club will provide graduate students with the opportunity to further develop their skills in the reading, interpretation, and communication of current scientific research in biomedical AI.

### **Course Objectives and/or Goals:**

Upon successful completion of this course, students will obtain an understanding of how to stay abreast of scholarly research in medicine as well as in basic bioscience, how artificial intelligence and machine learning can be leveraged to assist physicians, basic biologists, and patients and improve healthcare outcomes, the importance of multidisciplinary team-oriented research in healthcare innovations, how to critique and appraise research findings, and how to use published research to further their own research.

### **Instructional Methods:**

Students will complete weekly figure fact sheets for assigned research papers (see class schedule below for the list of papers). The figure fact sheet template will be available on Canvas by X:00 AM of the first day of the module. The sheets must be filled in by hand (no typing), and a scanned copy must be uploaded to Canvas no later than 10:00 AM the Wednesday morning of class. It is the student's responsibility to regularly check Canvas for assignments. Late assignments may not be accepted for credit, or may be downgraded for lateness.

During this Journal club, students are expected to read the assigned research articles. If you need help obtaining a copy, please email the instructors. Students are expected to complete weekly readings or digest other media that are assigned, attend class, and actively participate in discussions.

Students are expected to lead a discussion once during the semester. Discussion leaders are required to email the instructor leading that week's class (see schedule below) 5 points of discussion related to the topic the Friday before they are to be the discussion leader.

### **Description of Course Content:**

#### **Topical Outline/Course Schedule**

This journal club will take place every Wednesday from 10:00 am to 11:00am during the Spring semester.

### **Readings and other media:**

<b>Date</b>	<b>Reading/other media</b>	<b>Discussion Topic</b>	<b>Instructor</b>
<b>1/11/2023</b>		<b>Introduction to Journal Club</b>	<b>Dr. Giusti-Rodriguez</b>
<b>1/18/2023</b>			<b>Dr. Sarder</b>
<b>1/25/2023</b>			<b>Dr. Ozrazgat-Balsanti</b>
<b>2/1/2023</b>			<b>Dr. Giusti-Rodriguez</b>
<b>2/8/2023</b>			<b>Dr. Sarder</b>
<b>2/15/2023</b>			<b>Dr. Giusti-Rodriguez</b>
<b>2/22/2023</b>			<b>Dr. Ozrazgat-Balsanti</b>
<b>3/1/2023</b>			<b>Dr. Giusti-Rodriguez</b>
<b>3/8/2023</b>			<b>Dr. Sarder</b>
<b>3/15/2023</b>	<b>Spring Break</b>		
<b>3/22/2023</b>			<b>Dr. Ozrazgat-Balsanti</b>

3/29/2023			Dr. Ozrazgat-Balsanti
4/5/2023			Dr. Giusti-Rodriguez
4/12/2023			Dr. Sarder
4/19/2023			Dr. Giusti-Rodriguez
4/26/2023			Dr. Ozrazgat-Balsanti

**Note regarding respect for diverse ideas:** At times your instructors may make provocative statements related to course content to spark discussion. This is not an endorsement of a position. We welcome and have respect for dissenting opinions. Moreover, we feel that hearing and sharing diverse ideas is an essential component of the active learning process. Please discuss with course faculty if you ever feel that your ideas are not being heard or respected.

### Course Materials and Technology:

Journal articles published within the last two years. Specific articles are selected by the students as well as the instructors. A digital version of the research article in PDF format will be posted to Canvas a week in advance to all enrolled students and instructors.

For technical support for this class, please contact the UF Help Desk at:

- [Learning-support@ufl.edu](mailto:Learning-support@ufl.edu)
- (352) 392-HELP - select option 2
- [UF eLearning](#)

### Academic Requirements and Grading:

#### Assignments:

Each student is expected to present at least once during the semester and actively participate in the discussion every week. Student presenters will be selected by the instructors. Class participation is worth 60% of the grade.

Figure Fact Sheets are worth 40% of the grade.

#### Grading:

Satisfactory/Unsatisfactory. Grades will be determined based on class attendance and participation in paper discussions.

More information on UF grading policy may be found at:

<http://gradcatalog.ufl.edu/content.php?catoid=10&navoid=2020#grades>

**Class participation/Presentations:** Class participation (including the oral presentation) is worth 60% of the student's grade. Students are expected to lead weekly discussions of assigned research papers. While specific students may be assigned for discussion or presentation of a particular research paper, all students are expected to be prepared to discuss all articles if called upon and to be engaged in the class.

**Exam Policy:** No exams

### Policy Related to Required Class Attendance:

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

Excused absences must be consistent with university policies in the Graduate Catalog (<http://gradcatalog.ufl.edu/content.php?catoid=10&navoid=2020#attendance>). Additional information can be found here: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

### **Academic Integrity:**

Students are expected to act in accordance with the University of Florida policy on academic integrity. As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge:

**“We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.”**

You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied:

**“On my honor, I have neither given nor received unauthorized aid in doing this assignment.”**

It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For additional information regarding Academic Integrity, please see Student Conduct and Honor Code or the Graduate Student Website for additional details:

<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>

<http://gradschool.ufl.edu/students/introduction.html>

**Please remember cheating, lying, misrepresentation, or plagiarism in any form is unacceptable and inexcusable behavior.**

### **Online Faculty Course Evaluation Process:**

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at

<https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

### **Policy Related to Guests Attending Class:**

Only registered students are permitted to attend class. However, we recognize that students who are caretakers may face occasional unexpected challenges creating attendance barriers.

Therefore, by exception, a department chair or his or her designee (e.g., instructors) may grant a student permission to bring a guest(s) for a total of two class sessions per semester. This is two sessions total across all courses. No further extensions will be granted. Please note that guests are **not** permitted to attend either cadaver or wet labs. Students are responsible for course material regardless of attendance. For additional information, please review the [Classroom Guests of Students policy](#) in its entirety.

### **Support Services:**

#### **Accommodations for Students with Disabilities**

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center by visiting <https://disability.ufl.edu/students/get-started/>. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester. The College is committed to providing reasonable accommodations to assist students in their coursework.

#### **Counseling and Student Health:**

Students sometimes experience stress from academic expectations and/or personal and interpersonal issues that may interfere with their academic performance. If you find yourself facing issues that have the potential to or are already negatively affecting your coursework, you are encouraged to talk with an instructor and/or seek help through University resources available to you.

- The Counseling and Wellness Center 352-392-1575 offers a variety of support services such as psychological assessment and intervention and assistance for math and test anxiety. Visit their web site for more information: <http://www.counseling.ufl.edu>.  
On line and in person assistance is available.
- You Matter We Care website: <http://www.umatter.ufl.edu/>. If you are feeling overwhelmed or stressed, you can reach out for help through the You Matter We Care website, which is staffed by Dean of Students and Counseling Center personnel.
- The Student Health Care Center at UF Health is a satellite clinic of the main Student Health Care Center located on Fletcher Drive on campus. Student Health at UF Health offers a variety of clinical services. The clinic is located on the second floor of the Dental Tower in the Health Science Center. For more information, contact the clinic at 392-0627 or check out the web site at: <https://shcc.ufl.edu/>
- UF Health Emergency Room / Trauma Center: For immediate medical care call 352-733- 0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32698, [ufhealth.org/emergency-room-trauma-center](http://ufhealth.org/emergency-room-trauma-center).

- University Police Department: Visit [police.ufl.edu/](http://police.ufl.edu/) or call 352-392-1111 (or 9-1-1 for emergencies).
- Crisis intervention is always available 24/7 from:

Alachua County Crisis Center:

(352) 264-6789

<http://www.alachuacounty.us/DEPTS/CSS/CRISISCENTER/Pages/CrisisCenter.aspx>

Do not wait until you reach a crisis to come in and talk with us. We have helped many students through stressful situations impacting their academic performance. You are not alone so do not be afraid to ask for assistance.

### **Academic Resources**

**E-learning technical support:** Contact the UF Computing Help Desk at 352-392-4357 or via e-mail at [helpdesk@ufl.edu](mailto:helpdesk@ufl.edu).

**Career Connections Center:** Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services [career.ufl.edu/](http://career.ufl.edu/).

**Library Support:** [cms.uflib.ufl.edu/](http://cms.uflib.ufl.edu/) ask various ways to receive assistance with respect to using the libraries or finding resources.

**Teaching Center:** Broward Hall 352-392-2010 or to make an appointment 352 392-6420. General study skills and tutoring. [teachingcenter.ufl.edu/](http://teachingcenter.ufl.edu/)

**Writing Studio:** 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers. [writing.ufl.edu/writing-studio/](http://writing.ufl.edu/writing-studio/)

**Student Complaints On-Campus:** [sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/](http://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/)

**On-Line Students Complaints:** [distance.ufl.edu/student-complaint-process](http://distance.ufl.edu/student-complaint-process)