

QBS 270: Quantitative Biomedical Sciences Journal Club

Instructors

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Overview

The critical analysis and communication of experimental research in both written and oral formats is an essential element of scientific training. Students in the spring QBS journal club will select nine recent digital medicine and biomedical informatics papers from a set of approved journals. Starting the second week of the term, students will read one of the selected papers per week and submit a short written summary (1-2 pages) that covers the paper motivation, approach, results, strengths and weaknesses. During class, two students will each give a 45-minute presentation (40 min. of presentation with 5 min. for questions) on their papers (students will present twice during the term). In addition to reading and summarizing their selected paper for the week, all students are expected to review the two presented papers prior to class. Time permitting, additional topics for group discussion related to publishing your own research will include journal selection, impact factors, the peer review process, and authorship criteria.

Zoom

Due to COVID19, all meetings for the course will be held online via Zoom. You can join the zoom meeting using the following link: XXXXX. If you would prefer to join via another means, you can find addition information to join the call here. We prefer that all students have their Zoom videos on when possible to increase interaction and engagement.

Paper selection

A proposal detailing the first four papers must be written and submitted prior to the second class with the complete list of nine papers finalized by the fourth week. Ideally, the selected papers will follow a common theme related to the student's research interests. The initial proposal should include a brief discussion of the motivating theme for the term and why each of the initial papers was selected. To ensure that students read only high quality papers, the selected papers are restricted to the following digital medicine and biomedical informatics journals, grouped according to the primary focus ("digital medicine", "bioinformatics", or "biomedical informatics"). Appropriate papers from higher impact journals can also be proposed. Students are required to select at least 3 papers from each group and present 1 from each group.

- **Digital medicine journals:** The Lancet Digital Health, npj Digital Medicine, Journal of Medical Internet Research (JMIR).
- **Bioinformatics journals:** Nature Methods, PLOS Computational Biology, Bioinformatics, BMC Bioinformatics.
- **Biomedical informatics journals:** Journal of the American Medical Informatics Association, Journal of Biomedical Informatics, JCO Clinical Cancer Informatics, IEEE Journal of Biomedical and Health Informatics.

Time and place

<u>Date</u>	<u>Location</u>	<u>Instructor</u>
	Zoom	Jacobson & Tirado-Ramos
	Zoom	Tirado-Ramos
	Zoom	Jacobson
	Zoom	Tirado-Ramos
	Zoom	Jacobson
	Zoom	Tirado-Ramos
	Zoom	Jacobson
	Zoom	Tirado-Ramos
	Zoom	Jacobson
	Zoom	Tirado-Ramos

Requirements and Grading

QBS 270 is a Credit/No Credit course. To receive credit, students must:

- Propose, read and summarize nine approved biomedical informatics papers.
- Give a 45 min presentation on two of the papers (1 from each group). The presentation schedule can be found online at:
XXXXX
- Attend and participate in all classes. Specifically, students are expected to briefly review the presented papers and come to class with questions or topics for discussion.

Dartmouth Policies

At Dartmouth, we value integrity, responsibility, and respect for the rights and interests of others, all central to our Principles of Community. We are dedicated to establishing and maintaining a safe and inclusive campus where all have equal access to the educational and employment opportunities Dartmouth offers. We strive to promote an environment of sexual respect, safety, and well-being. In its policies and standards, Dartmouth demonstrates unequivocally that sexual assault, gender-based harassment, domestic violence, dating violence, and stalking are not tolerated in our community.

The Sexual Respect Website (sexual-respect.dartmouth.edu) at Dartmouth provides a wealth of information on your right with regard to sexual respect and resources that are available to all in our community. Please note that, as a faculty member, I am obligated to share disclosures regarding conduct under Title IX with Dartmouth's Title IX Coordinator.

Should you have any questions, please feel free to contact Dartmouth's Title IX Coordinator (Kristi.Clemens@Dartmouth.edu) or the Deputy Title IX Coordinator for Geisel (Leslie.Henderson@Dartmouth.edu) or for Guarini (Gary.Hutchins@Dartmouth.edu).