

Artificial Intelligence Applications for Structural Biology

SS 2024 BMB960 section 2 (1 credit)

Instructors: Michael Feig (feig@msu.edu)
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Time: Thursdays 4 – 4:50 pm

Location: BCH 502

Format:

This is a seminar course focused on discussions of recent publications. During most weeks, one paper will be discussed as follows: 1) a brief introduction by one of the instructors; 2) a student presentation of the paper; 3) critical discussion by the entire class.

Grading:

The course grade is based on presentations and participation during discussions.

Schedule:

1/11	Course overview and initial paper assignments	M. Feig
1/18	Introduction to key concepts in machine learning	G. Janson
1/25	Paper #1	M. Feig / Student
2/1	Paper #2	G. Janson / Student
2/8	Paper #3	M. Feig / Student
2/15	Paper #4	G. Janson / Student
2/22	Paper #5	M. Feig / Student
2/29	Spring Break	
3/7	Key challenges of current machine learning approaches	G. Janson
3/14	Paper #6	M. Feig / Student
3/21	Paper #7	G. Janson / Student
3/28	Paper #8	M. Feig / Student
4/4	Paper #9	G. Janson / Student
4/11	Paper #10	M. Feig / Student
4/18	Class discussion of future directions of AI	All

A final discussion will be scheduled during Final's week.