Guidelines for ECE491 Research Report and Presentations

Topics

The topics of research report and presentation can be chosen, but not limited to the following areas.

0D systems: (1) Fullerene; (2) Quantum Dot; (3) Nano particles.

1D system: (4) Carbon nanotube; (5) Nanowire; (6) Graphene nanoribbon.

2D system: (7) Graphene; (8) Quantum well; (9) Superlattice;

(10) Two-dimensional electron gas at interface.

It is strongly recommended to present your own research topic, if you have already started your research and it is relevant to “nano”.

The topics of the presentation and research report are recommended to be different. Different researches on the same material system are acceptable, for example graphene for FETs, graphene for sensors, and graphene for phononics are considered to be different.

Research Report

IEEE journal style or AIP journal style are recommended formats for the research report. An IEEE journal template is provided together with this guideline. A research report with length of 3-6 “templated” pages is recommended.

Presentation

Please prepare your presentation for 30 minutes. After the presentation, there is 5 minutes for questions from other students and the instructor. Presentations too long or too short may affect the evaluations.

Note: If you have further questions, please contact the instructor Zheng Yang via email at yangzhen@uic.edu or phone number 312-996-8367; or stop by during office hours.