The Java Modeling Language (JML) describes the functional behavior of Java classes and methods using pre- and postconditions. However, standard pre- and postcondition specifications cannot verify calls to higher order methods (HOMs). JML uses model program specifications to reason about HOMs. This thesis describes the implementation of model programs in OpenJML. The implementation includes parsing, type checking, and matching of model program specifications against the code.

Major: Computer Science

Educational Career:
Bachelor's of Electrical and Electronics Engineering, BS, 2013, Jawaharlal Nehru Technological University

Committee in Charge:
Gary T. Leavens, Chair, Computer Science
Damla Turgut, Computer Science
Sumit Kumar Jha, Computer Science

Approved for distribution by Gary T. Leavens, Committee Chair, on June 14, 2017.

The public is welcome to attend.