

# Overview

## Outline for the dissertation defense

1. Dynamic Graphs and the Dynamical Graph Grammar (DGG) Formalism
2. Algorithms, the Exact and Approximate
3. The Dynamical Graph Grammar Modeling Library (DGGML)
4. DGG Example Applications
  - The Plant Cell Cortical Microtubule Array (CMA) DGG
  - The Plant Cell Periclinal Cortical Microtubule Array (PCMA) DGG
5. Conclusions and Future Work

# Motivation

## Simulation and Modeling of Complex Systems