

## **RESEARCH TECHNIQUES**

### Very Familiar

Genomic DNA Isolation and Purification

Restriction Digest Design

Primer Design and PCR

Fluorescence Microscopy (upright microscope)

BLAST and Pfam Analysis

Titration

Making Buffers

DNA Origami (cadnano)

Gel electrophoresis

### Somewhat Familiar

Southern Blot

qPCR

Gene cloning

Atomic Force Microscopy (J son head, tapping mode)

Spectrophotometer (Nanodrop and Nanovue)

## **COMPUTER PROGRAMS**

ImageJ

Excel

Maplesoft

Java

Python

MATLAB

## **UPPER DIVISION COURSEWORK**

Differential Equations with Modeling, Calculus Sequence, and Linear Algebra (*audited*)

Genetics, Molecular Biology with laboratory, and Sensory Evolution (*ongoing*)

Modern Physics , Biophysics, Statistical Mechanics, and Intermediate Classical Mechanics

Advanced Topics in the Philosophy of Science

## **OTHER RELEVANT COURSEWORK**

Accelerated Integrated Sciences Sequence (AISS) - a two semester interdisciplinary course for first year students, covered introductory physics, chemistry, and biology.

Introduction to Computer Science, Feminism and Science, and Statistics and Scientific Reasoning (*ongoing*)

## **OTHER SKILLS AND ACTIVITIES**

Active member of Claremont's swing and blues dance communities

STAR Leadership Training – 9 week community leadership training course