Experiences

- Weitz Group (Senior Thesis): Efficacy of lipid-polymer vesicles as drug delivery vehicles
  - Inverted-extrusion technique to form nanoscale vesicles
  - Physical characteristic investigation
  - Live cell testing for uptake and toxicity
- Novo Nordisk (Internship): Ingestible Alternative for Insulin
  - Joint venture with MIT
  - Research on form, material of pills
- Doyle Group (Research): Effect of activity type of glucose levels in Diabetes patients
  - Biological hypothesis testing
  - Mathematical/statistical modeling to confirm/deny predictions
- Harvard Micro Robotics Lab (Research): Soft Surgical Robots
  - Multi-scale, multi-material fabrication techniques to create tools for microsurgery, endoscopy, and laparoscopy.
  - Material research and fabrication training

Preparation & Interests

- Coursework:
  - Quantitative Physiology, Bioengineering Principles, Fluid Mechanics, Physiological Systems Analysis
  - Life Sciences, Applied Physics (Mechanics, EM), Organic Chemistry
  - Multivariable Calculus, Linear Algebra, Differential Equations, Statistical Inference & Probability, Real Analysis, Geometry
- Other Experiences
  - Lead Analyst, Harvard Biotechnology Club (Biotech Consulting)
  - R&D Intern, Hameed Latif Hospital

- Interests:
  - Nanoscale technologies for drug delivery, tissue engineering/regeneration
  - Soft Robotics for surgical or assistive purposes