

Nicholas Kruyer

800 West Marietta St Apt 231-B Atlanta, GA 30318 | 910-603-9844 | nkruyer3@gatech.edu

Education

GEORGIA INSTITUTE OF TECHNOLOGY | ATLANTA, GA | AUGUST 2016-PRESENT

- Ph.D. Chemical and Biomolecular Engineering
- Thesis: Microbial Production of Adipic Acid from Catechol
- Advisers: Dr. Pamela Peralta-Yahya, Dr. Andreas Bommarius, Dr. Matthew Realff

JOHNS HOPKINS UNIVERSITY | BALTIMORE, MD | AUGUST 2012 - MAY 2016

- B.S. Chemical and Biomolecular Engineering
- Minor: Spanish Language and Culture
- Graduated with departmental and university-wide honors

PINECREST HIGH SCHOOL | SOUTHERN PINES, NC | AUGUST 2008 - JUNE 2016

Research Experience

UNDERGRADUATE RESEARCHER | DR. MICHAEL BETENBAUGH, JHU | JUNE 2014 - MAY 2016

- Designed and carried out experiments investigating the effects of environmental conditions such as light levels, nutrient levels and pH on growth and lipid content in algae cell cultures
- Designed a control system for the monitoring and control of algae cell cultures; included both hardware and code development
- Organized and scheduled weekly meetings of all undergraduates working in Dr. Betenbaugh's lab

UNDERGRADUATE RESEARCHER | DR. REBECCA SCHULMAN, JHU | JANUARY 2014 - MAY 2014

- Developed Matlab codes to analyze data from *in silico* experiments on DNA self-assembly

Work Experience

ASSISTANT | HOPKINS FULLFILLMENT SERVICE | BALTIMORE, MD | JUNE 2015 - MAY 2016

- Worked as an office assistant in the Accounts Receivables department doing data and account management

Skills & Abilities

LABORATORY SKILLS

- Cell culture; PCR; Site directed mutagenesis; Spectrophotometry; Pigment analysis; Bioreactor design; control systems; Flow cytometry; Algae; E. coli

SOFTWARE

- Matlab: experience using COBRA and Bioinformatics toolboxes; Microsoft Office

LANGUAGE

- Spanish: reading, writing and speaking at an advanced level

LEADERSHIP

- Served as co-President of Johns Hopkins Soccer Kids: helped organize and run soccer training sessions for Baltimore area elementary school children (August 2015 - May 2016)
- Served as Vice President and co-founder of Johns Hopkins Electronic Music Lab: helped organize and run weekly meetings as well as special events (January 2015 - May 2016)

ORGANIZATIONS

- Tau Beta Pi