

NANA ANTWI

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EDUCATION

09/20 – present **Columbia University, *The Fu Foundation School of Engineering and Applied Science*, New York NY**

- MS in Computer Science

08/16 – 05/2020 **Cornell University, *College of Arts and Science*, Ithaca NY**

- BS in Chemistry and Chemical Biology

RESEARCH INTERESTS

Machine Learning, Natural Language Processing

PUBLICATIONS / PRESENTATIONS

Journal Papers

- **Antwi, Nana** et al. “Intracellular drug delivery using sequence defined Oligothioetheramides.” *Office of Academic Diversity and Initiatives Research Journal* (2018)

Presentations

- 2017 McNair Conference, *Sequence Defined Oligothioetheramides*, Poster and Powerpoint Presentation
- 2018 Annual Chemistry Symposium, *Intracellular drug delivery using Sequence defined OligoTEAS*, powerpoint presentation
- 2019 Leadership Alliance Conference, *Conformational Analysis of Alpha-Synuclein using 2D IR spectroscopy*, Powerpoint Presentation

ACADEMIC RESEARCH

01/2018 – 05/2020 ***School of Chemical and Biomolecular Engineering, Cornell University***

- Synthesized non-charged sequence-defined oligomers for use as efficient drug delivery bioconjugates
- Created a diverse library of membrane targeting antibacterial agents focusing on sequence-structure-function relationships
- Analyzed synthesized products using solution-phase molecular characterization methods such as NMR and LC-MS
- Performed Biological assays to test cytotoxicity and bioactivity of synthesized products

05/2019 – 08/2019 ***Department of Chemistry, and Department of Biological Sciences, Vanderbilt University***

- Analyzed a-synuclein protein in Parkinson’s disease using two-dimensional infrared spectroscopy.
- Devised novel methods for coupling amino acids during peptide synthesis.
- Compiled and analyzed data independently.

WORK EXPERIENCE

08/2017 – 05/2020 **Manager, *Carol Tatkon Center, Cornell University***

- Collaborated with faculty and the director of undergraduate research to organize events to inform undergraduate students about research opportunities in Cornell
- Provided academic and emotional support to freshman students as they transition to the rigorous life and expectations at Cornell University
- Mentor assistants on how to organize successful events.

09/2018 – Present **Mentor, Regional Coordinator, *CodeAfrique***

- Raised \$30,000 in funds for the annual CodeAfrique coding bootcamp in Ghana.
- Taught high school students fundamental algorithms in python
- Distributed computers and laptops to participating schools.

SKILLS

- Programming Languages: Python, Java, MATLAB, Sml
- IDEs: Xcode

HONORS/AWARDS

- McNair Scholarship, Cornell University
- Stuzin Family Scholarship, Cornell University
- Lou DeFelice Scholarship, Vanderbilt University (Outstanding Research Intern)
- Dean’s List, Cornell University (Fall 2016)