Mark Agrios

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Research Interests:

Mathematical modeling including dynamic systems, biophysics, mathematical and computational neuroscience. Algebraic topology, topological data analysis, homological algebra, simplicial homology.

Positions:

Research Technologist at the Miri Lab, Northwestern University [https://mirilab.org]
-   August 2019 - present

Academic Training:

B.S. Mathematics, College of William & Mary, Spring 2019
B.S. Neuroscience, College of William & Mary, Spring 2019

Leadership Positions:

Pi Mu Epsilon Math honors society president at William & Mary
-   Fall 2018 - Spring 2019

Research Experience:

EXTREEMS-QED program summer 2017
William & Mary honors fellow summer 2018
-   *Simplicial Homology and Burst-Synchronizing Neural Networks* (in progress)
    Advisors: Prof Sarah Day (department of mathematics) Prof Drew LaMar (department of biology)

Conferences Presented

EXTREEMS-QED Summer research colloquium	July 2017
SUMS at James Madison University	October 2017
JMM in San Diego	January 2018
SIAM-SEAS at UNC (invited)	March 2018

EXTREEMS-QED Summer research colloquium (invited)   June 2018

SIAM at the University of Delaware   September 2018

Conferences Attended

BAMM at VCU   May 2017

Computational Experience [https://github.com/markagrios]

Python
Matlab
HTML, CSS, Javascript
C, C++