April Kriebel akriebel@umich.edu

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Fenton, MI 48430

**April Kriebel**

**Education**

University of Michigan, Fall 2019 to Present

Spring Arbor University, Fall 2015-Spring 2019

* PhD Student in the department of Bioinformatics, GPA 3.54
* BA Mathematics, Minor Biology, Cumulative GPA 3.96, Summa Cum Laude

**Research and Professional Experience**

2020 Summer to Present

2020 Spring

2019 Winter

2019 Summer

2019 Spring-Fall 2018

Summer 2018

Spring 2018

Summer 2017

* Graduate Student, Laboratory of Dr. Joshua Welch, University of Michigan Department of Bioinformatics
* Rotation Student, Laboratory of Dr. Joshua Welch, University of Michigan Department of Bioinformatics
* Rotation Student, Laboratory of Dr. Jun Li, University of Michigan Department of Genetics, Department of Bioinformatics
* Rotation Student, Laboratory of Dr. Srijan Sen, Department of Psychiatry, co-advised by Dr. Margit Burmeister, Department of Bioinformatics
* Undergraduate Research Project, Laboratory of Dr. Aaron Wyman, Spring Arbor University, Department of Biology
* Summer Research Experience for Undergraduates, Laboratory of Dr. Rita Graze, Auburn University, Associate Professor of Biological Sciences
* Independent Research Project, Laboratory of Dr. Aaron Wyman, Spring Arbor University, Department of Biology
* Summer Institute in Biostatistics, University of Minnesota, Department of Biostatistics

**Major Projects and Professional Experience**

Laboratory of Dr. Joshua Welch

* Performed investigations into the differences of immune cell developmental trajectories in obese and non-obese children
* Worked to extend Liger algorithm to include a non-feature specific dataspace

Laboratory of Dr. Jun Li

* Developed selection criteria and a bioinformatics pipeline to help identify causal variants in a rare variant study of Venous Thromboembolism

Laboratory of Dr. Srijan Sen, Co-advised Dr. Margit Burmeister

* Investigated components of resilience against depression in the incoming medical cohorts of the Intern Health Study, specifically the contributions of parenthood and religious service attendance in depression resilience

Laboratory of Dr. Aaron Wyman

* Explored the use of R and other statistical analyses systems for use in an undergraduate learning environment
* Assessed Biofilm development in the presence of differing deterrents

Laboratory of Dr. Rita Graze

* Developed a pipeline to allow the assessment of the differences in Transcription Factor Binding Sites in Drosophila populations
* Auburn University Bioinformatics Bootcamp Attendee

Summer Institute in Biostatistics

* Helped to develop protocols to prevent HIV medication discontinuation in Africa utilizing genetic screens

**Academic Experiences**

*Teaching Experience*

* Academic Tutor, Spring Arbor University Fall 2016-Fall 2017, Fall 2018 General Tutor Biology, Calculus, Economics

*Presentations*

Oral Presentation (Invited speaker), Spring Arbor University (Spring Arbor, MI), March 3, 2018. *University of Minnesota’s Summer Institute in Biostatistics Experience and Projects.*

Bioinformatics REU Poster Symposium, Auburn University (Auburn, AL), July 21, 2018. *Exploring FOXO Transcription Factor Binding Site Diversity in Drosophila.*

*Grants and Awards*

2019,2020 Genome Science Training Program

2015-2019 National Merit Scholarship Spring Arbor University

2017 NAIA Scholar Athlete

2015 National Merit Scholar

*Outreach*

Summer 2020-Present Girls Who Code, Executive Committee

Summer 2020 Girls Who Code, Summer Executive Committee

Summer 2020 REACT Workshop Presenter

Summer 2020 Personal Mentor for Bioinformatics High Schooler