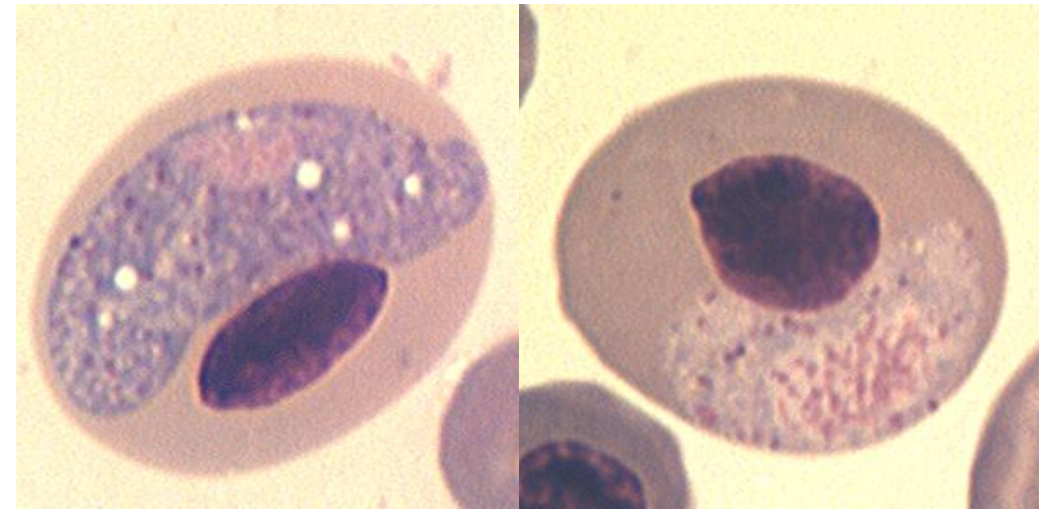


Allison Neal

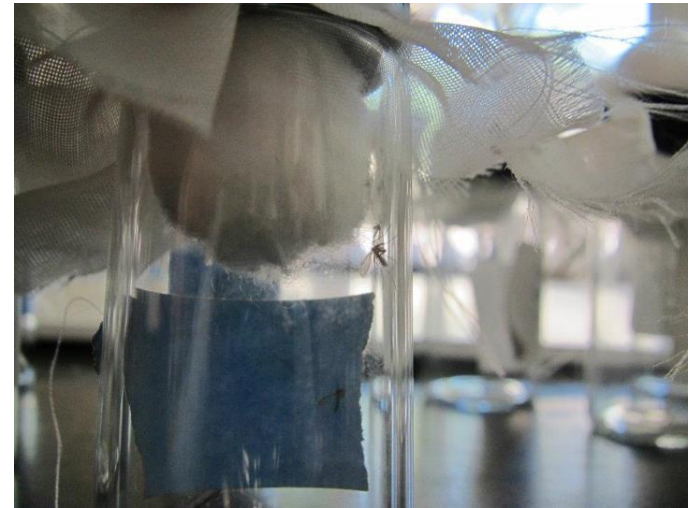
- PhD student
 - UVM Department of Biology
 - Just finishing 3rd year/starting 4th



- GRFP
 - Applied at beginning of second year
 - Just finished first year/starting 2nd on grant



Study sex ratio of lizard malaria parasite
Plasmodium mexicanum



Sand Flies (*Lutzomyia* spp.)



Western Fence Lizard (*Sceloporus occidentalis*)



Career Goal: Professor



Teaching



Research

Previous Research Experience



- Senior Honors Thesis
 - 2 ½ weeks fieldwork
 - ~ 10 months lab work



- 1 year graduate research
 - > 3 months fieldwork
 - ~ 9 months lab work

Getting Started - Resources

Descriptions of each essay:

https://www.fldemo.nsf.gov/NSFHelp/flashhelp/fastlane/FastLane_Help/3_prepare_application.htm

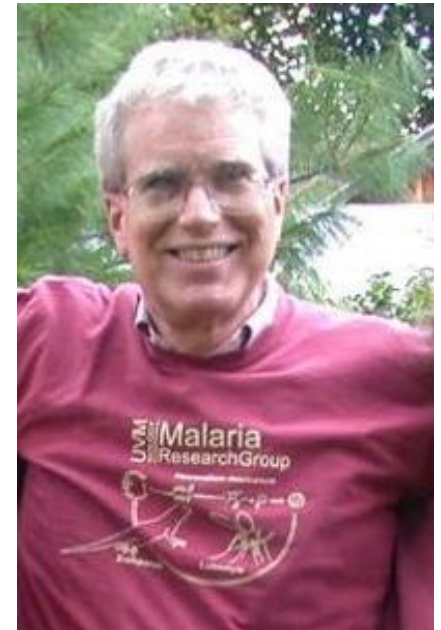
Questions to answer in essays:

http://www.nsfgrfp.org/how_to_apply/application_materials

Broader Impacts and Intellectual Merit:

http://www.nsfgrfp.org/how_to_apply/review_criteria

Advisor: Dr. Joseph Schall



Getting Started - Writing

1. Brainstorm

- Answer questions
- Address all areas of essay description
- Don't forget Intellectual Merit and Broader Impacts!

2. Outline

- How do all these ideas fit together?

3. Write

- Hardest part? Only 2 pages per essay!

Personal Statement

What personal and individual strengths do you have that make you a qualified applicant?

Adrian T. Neal
Personal Statement

Only life-changing experiences are rare. These are experiences that alter life's attitudes and goals, and I was fortunate to receive such an experience while in an undergraduate program. One feature of my education at California Polytechnic State University, San Diego was my participation in the Honors Program. I received the chance to pursue a high-level biology major and had the opportunity to work on projects, graduate research, and to attend conferences that would give me a broader perspective on the field. I became an Associate to Professor due to the change of my focus, they became one of my favorite aspects of my education. The intellectual curiosity and diversity of genetic life and the vast genetic diversity within that have inspired my life-long interest in genetics (not molecular-genetic approaches) evolved as an altered life perspective of the world. In the laboratory setting of the program, we investigated life history traits of the forest-dwelling parasite *Plasmodium falciparum* and I considered why their evolutionary traits were so diverse in relation to their host. As the life cycle evolved, how it developed (in terms of genetic, developmental, and behavioral) was a major focus. I considered the impact of genetic diversity on the evolution of the parasite, and how it was related to the host's immune system. This led to the development of the "Red Cell" model, which was a major focus of my research. I considered the evolutionary consequences of genetic diversity on the host's immune system, and how it was related to the host's immune system. I considered the evolutionary consequences of genetic diversity on the host's immune system, and how it was related to the host's immune system.

The study of genetics was a major focus of my research. I considered the evolutionary consequences of genetic diversity on the host's immune system, and how it was related to the host's immune system. I considered the evolutionary consequences of genetic diversity on the host's immune system, and how it was related to the host's immune system.

Through the Honors Program, I received a wide range of experiences that would give me a broader perspective on the field. I became an Associate to Professor due to the change of my focus, they became one of my favorite aspects of my education. The intellectual curiosity and diversity of genetic life and the vast genetic diversity within that have inspired my life-long interest in genetics (not molecular-genetic approaches) evolved as an altered life perspective of the world.

Adrian T. Neal
Personal Statement

One of the most important experiences in my life was my participation in the Honors Program. I received the chance to pursue a high-level biology major and had the opportunity to work on projects, graduate research, and to attend conferences that would give me a broader perspective on the field. I became an Associate to Professor due to the change of my focus, they became one of my favorite aspects of my education. The intellectual curiosity and diversity of genetic life and the vast genetic diversity within that have inspired my life-long interest in genetics (not molecular-genetic approaches) evolved as an altered life perspective of the world. In the laboratory setting of the program, we investigated life history traits of the forest-dwelling parasite *Plasmodium falciparum* and I considered why their evolutionary traits were so diverse in relation to their host. As the life cycle evolved, how it developed (in terms of genetic, developmental, and behavioral) was a major focus. I considered the impact of genetic diversity on the evolution of the parasite, and how it was related to the host's immune system. This led to the development of the "Red Cell" model, which was a major focus of my research. I considered the evolutionary consequences of genetic diversity on the host's immune system, and how it was related to the host's immune system. I considered the evolutionary consequences of genetic diversity on the host's immune system, and how it was related to the host's immune system.

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"I am hard working..."

"I have maintained high grades..."

"I have submitted two papers..."

Personal Statement

Adrian T. Phai
Personal Statement

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My life-changing experiences are vast. These are experiences that have shaped me into the person I am today, and I have strived to combine such an experience with an interdisciplinary career. One of the most significant experiences I had was during my time as a high school biology teacher and lead in research in molecular genetics, which led me to a graduate program in genetics and evolutionary biology. I was drawn to this field because of my passion for understanding the complexities of life and the world. In the field of genetics, I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology. I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology. I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology.

How I became interested in malaria sex ratios

My interest in malaria sex ratios was sparked by a research project I worked on during my undergraduate studies. I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology. I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology. I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology.

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Why evolutionary questions interest me- broader context

My interest in evolutionary biology was sparked by a research project I worked on during my undergraduate studies. I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology. I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology. I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology.

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Career goals and related experience

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Adrian T. Phai
Personal Statement

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How receiving GRFP would enhance my graduate experience

My interest in evolutionary biology was sparked by a research project I worked on during my undergraduate studies. I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology. I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology. I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology.

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Why I am the right candidate to fund!

My interest in evolutionary biology was sparked by a research project I worked on during my undergraduate studies. I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology. I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology. I was particularly interested in the study of the human genome, which led me to a graduate program in genetics and evolutionary biology.

Previous Research

Albert E. Hall
Previous Research

<p>My first research experience was during the laboratory portion of a course I took during my first year of college. I was assigned to work on a project that involved the study of the effects of temperature on the rate of a chemical reaction. I was responsible for setting up the reaction, measuring the rate, and recording the data. This was my first experience with laboratory work and I found it to be a very interesting and challenging experience.</p>
<p>I spent the summer before my first year of college working on a research project in the lab. I was assigned to work on a project that involved the study of the effects of temperature on the rate of a chemical reaction. I was responsible for setting up the reaction, measuring the rate, and recording the data. This was my first experience with laboratory work and I found it to be a very interesting and challenging experience.</p>
<p>Undergraduate Honors Thesis</p> <p>I spent the summer before my first year of college working on a research project in the lab. I was assigned to work on a project that involved the study of the effects of temperature on the rate of a chemical reaction. I was responsible for setting up the reaction, measuring the rate, and recording the data. This was my first experience with laboratory work and I found it to be a very interesting and challenging experience.</p>
<p>Summer before starting graduate program (2009)</p> <p>I spent the summer before my first year of college working on a research project in the lab. I was assigned to work on a project that involved the study of the effects of temperature on the rate of a chemical reaction. I was responsible for setting up the reaction, measuring the rate, and recording the data. This was my first experience with laboratory work and I found it to be a very interesting and challenging experience.</p>
<p>Research project with middle school students</p> <p>I spent the summer before my first year of college working on a research project in the lab. I was assigned to work on a project that involved the study of the effects of temperature on the rate of a chemical reaction. I was responsible for setting up the reaction, measuring the rate, and recording the data. This was my first experience with laboratory work and I found it to be a very interesting and challenging experience.</p>

Albert E. Hall
Previous Research

<p>Summer fieldwork (2009)</p> <p>I spent the summer before my first year of college working on a research project in the lab. I was assigned to work on a project that involved the study of the effects of temperature on the rate of a chemical reaction. I was responsible for setting up the reaction, measuring the rate, and recording the data. This was my first experience with laboratory work and I found it to be a very interesting and challenging experience.</p>
<p>First year as graduate student: lab work (2009-2010)</p> <p>I spent the summer before my first year of college working on a research project in the lab. I was assigned to work on a project that involved the study of the effects of temperature on the rate of a chemical reaction. I was responsible for setting up the reaction, measuring the rate, and recording the data. This was my first experience with laboratory work and I found it to be a very interesting and challenging experience.</p>
<p>Summer fieldwork (2010): my research and that of my undergraduates</p> <p>I spent the summer before my first year of college working on a research project in the lab. I was assigned to work on a project that involved the study of the effects of temperature on the rate of a chemical reaction. I was responsible for setting up the reaction, measuring the rate, and recording the data. This was my first experience with laboratory work and I found it to be a very interesting and challenging experience.</p>
<p>What I've learned and how I've communicated findings</p> <p>I spent the summer before my first year of college working on a research project in the lab. I was assigned to work on a project that involved the study of the effects of temperature on the rate of a chemical reaction. I was responsible for setting up the reaction, measuring the rate, and recording the data. This was my first experience with laboratory work and I found it to be a very interesting and challenging experience.</p>
<p>My publications</p> <p>I spent the summer before my first year of college working on a research project in the lab. I was assigned to work on a project that involved the study of the effects of temperature on the rate of a chemical reaction. I was responsible for setting up the reaction, measuring the rate, and recording the data. This was my first experience with laboratory work and I found it to be a very interesting and challenging experience.</p>

Proposed Plan of Research

Alison T. Phil
Proposed Plan of Research

<p>Title and Keywords</p>
<p>Intellectual Merit (Introduction)</p>
<p>Origin of my interest</p>
<p>Questions (overview)</p>
<p>4 specific areas of research with hypotheses and preliminary data (if available)</p>

Alison T. Phil
Proposed Plan of Research

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<p>General Methods</p>
<p>Broader Impacts</p>
<p>References!</p>

Benefits of Fellowship

Time and flexibility!

- Extended field season
- Opportunity to visit other labs/researchers
- Chance to develop skills, participate in workshops, etc.

