

**Biographical Information**

Name (Last, First, Middle)	Shimko Tyler Carter		
UID		DOB	01/26/1993
Visa Type			
Country of Citizenship	New Jersey		
Gender	Male		
US Military?	Not Applicable		
California Res?	N		

**Plans for Graduate Study**

Program Name	Biosciences
Major Code	9991
Degree Objective	Biosciences PHD
Proposed Specialization	Human Genetics PhD
Joint Degree	
Entry Date	Fall 2015
Previous App?	

**Contact Information**

Mailing Address	[REDACTED]
Email	[REDACTED]

**Academics**

Institution Name	Univ Utah		
Major	Biology		
Degree	Bachelor of Science		
GPA	3 9 3		
Begin Date	08/2011		
End Date	05/2015		
Degree Date	05/2015		

**Test Scores**

GRE General		
Verbal Score / Percentile	163	92
Quantitative Score / Percentile	161	80
Analytical Writing Score / Percentile	5	0
Analytical Score / Percentile		93
Test Date	June	2014

GRE Subject	
Subject	
Subject Score / Percentile	
SS1 Score / Percentile	
SS2 Score / Percentile	
SS3 Score / Percentile	
Test Date	

TOEFL ibt	
Listening	
Speaking	
Reading	
Writing	
Total	
Test Date	

GMAT		TWE	IELTS
Test Score / Percentile			
Test Date			

**Recommenders**

	Name	Institution
1.	Erik Andersen	Northwestern University
2.	Erik Jorgensen	University of Utah
3.	Leonid Kruglyak	University of California, Los Angeles

**Legal Name**

Last, First, Middle

Shimko

, Tyler

, Carter

**Other Name**

Last, First, Middle

,

,

**Contact Information**

## Mailing Address

## Permanent Address

Day Phone

Mobile Phone

Evening Phone

E-mail

**Biographical Information, Citizenship & Residency**

Date of Birth	01/26/1993
Gender	Male
Birth City	
Birthplace Location	New Jersey
Ethnicity	White / Caucasian
Latino/a?	N

Citizenship	New Jersey
U.S. Visa Type	
CA Resident?	N
Foster Youth?	N
Community College	N
U.S. Military Service	Not Applicable
Military Tuition Asst?	N

**Plans for Graduate Study**

Application Type	New	Program Participation	
Academic Program	Biosciences		
Degree Objective	Biosciences PHD		
Application Term	Fall 2015	Proposed Specialization	

**Previous Application**

Application Term

**Language Proficiency**

Native Language	English	Years of English Language Instruction
Additional Language		Proficiency Reading
Proficiency Writing		Proficiency Speaking
Additional Language		Proficiency Reading
Proficiency Writing		Proficiency Speaking
Additional Language		Proficiency Reading
Proficiency Writing		Proficiency Speaking

**English Language Proficiency (for non-US citizens)**

- Do you hold a degree (or will one be awarded to you by the beginning of the term for which you are applying) from one of the following countries where English is both the primary spoken language of daily life *and* the language of instruction? (Australia, Barbados, Canada, Ireland, Jamaica, New Zealand, United Kingdom, United States)
- Have you completed at least two years of full time study at a college or university in one of the following countries where English is both the primary spoken language of daily life *and* the language of instruction? (Australia, Barbados, Canada, , Ireland, Jamaica, New Zealand, United Kingdom, United States)

**Academic History**

Institution Name	Univ Utah			
Institution Not Listed				
Institution State	Utah			
Institution Country	-			
Major	Biology			
Other/Double Major				
Degree	Bachelor of Science			
Degree Not Listed	Conferral Date	05/2015	Attended from	08/2011 to 05/2015
GPA	3 9 3	Other Scale	Level of Achievement	

Institution Name				
Institution Not Listed				
Institution State				
Institution Country				
Major				
Other/Double Major				
Degree				
Degree Not Listed	Conferral Date	Attended from		to
GPA	Other Scale	Level of Achievement		

Institution Name				
Institution Not Listed				
Institution State				
Institution Country				
Major				
Other/Double Major				
Degree				
Degree Not Listed	Conferral Date	Attended from		to
GPA	Other Scale	Level of Achievement		

Institution Name				
Institution Not Listed				
Institution State				
Institution Country				
Major				
Other/Double Major				
Degree				
Degree Not Listed	Conferral Date	Attended from		to
GPA	Other Scale	Level of Achievement		

**Work in Progress**

Institution Name		Term	
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Department	Course	Descriptive Title of Course	Units

**Test Scores**

GRE General		GRE Subject		TOEFL ibt	
Verbal Score / Percentile	163	92	Subject		
Quantitative Score / Percentile	161	80	Subject Score / Percentile		
Analytical Writing Score / Percentile	5	0	SSI Score / Percentile		
Analytical Score / Percentile			SS2 Score / Percentile		
Test Date	June	2014	SS3 Score / Percentile		
			Test Date		
TWE IELTS		GMAT			
Test Score / Percentile		Verbal Score / Percentile			
Test Date		Quantitative Score / Percentile			
		Analytical Writing Score / Percentile			
		Integrated Reasoning Score / Percentile			
		Total Score / Percentile			
		Test Date			
ETS ID Number					
GRE	6860144	GRE Sub			
TWE		TOEFL			

**Awards and Publications**

Awards/Distinctions	Publications/Organizations
<p>Dean's List (All semesters)</p> <p>Myriad Academic Excellence Award</p> <p>Barry Goldwater Scholarship (Nationally-competitive)</p> <p>Theodore Verender Hanks Scholarship</p> <p>University of Utah College of Science Dean's Scholarship</p> <p>Full Resident/Half Non-Resident Partial Tuition Waiver Scholarship</p> <p>Undergraduate Research Opportunities Program Assistantship</p> <p>Full Resident Partial Tuition Waiver Scholarship</p>	<p>Tyler C. Shimko and Erik C. Andersen. (2014) COPASutils: An R Package for Reading, Processing, and Visualizing Data from COPAS Large-Particle Flow Cytometers. PLoS ONE.</p>

**Professional Experience**

Employer	From	To	Position/Title
Northwestern University	05/2014	08/2014	Undergraduate Researcher
Northwestern University	05/2013	08/2013	Undergraduate Researcher
Howard Hughes Medical Institute	05/2012	08/2012	Undergraduate Researcher

**Pertinent Work Experience**

Undergraduate Researcher (Gillian Stanfield Lab, University of Utah) - 08/2014-Present  
 Undergraduate Researcher (Erik Andersen Lab, Northwestern University) - 05/2014-08/2014  
 Undergraduate Researcher (Gillian Stanfield Lab, University of Utah) - 08/2013-05/2014  
 Undergraduate Researcher (Erik Andersen Lab, Northwestern University) - 05/2013-08/2013  
 Undergraduate Researcher (Erik Jorgensen Lab, University of Utah) - 08/2012-05/2013  
 Undergraduate Researcher (Leonid Kruglyak Lab, Princeton University) - 05/2012-08/2012  
 Undergraduate Researcher (Erik Jorgensen Lab, University of Utah) - 09/2011-05/2012

**Other Academic Institutions Applying to**

Name	Stanford Univ
Write-in Name (not listed)	
State	California
Country	-

Name	Univ Washington
Write-in Name (not listed)	
State	Washington
Country	-

Name	UC San Diego
Write-in Name (not listed)	
State	California
Country	-

Name	UC San Francisco
Write-in Name (not listed)	
State	California
Country	-

Name	Northwstrn Univ
Write-in Name (not listed)	
State	Illinois
Country	-

Name	
Write-in Name (not listed)	
State	
Country	

**Financial Support**

Are you receiving Financial Aid now?  N      Are you applying for Financial Aid?  N

**International Applicants - Agency Support**

Agency	
Amount of Support	
Duration of Support (YY/MM)	

**Fellowships Applied For**

Graduate Division Fellowships

- Eugene V. Cota-Robles Fellowship If checked, will pursue an academic career in college/university teaching and research?
- Graduate Opportunity Fellowship
- Karekin Der Avedisian Memorial
- Rose and Sam Gilbert Fellowship
- Gordon Hein Memorial Scholarship
- Kasper and Siroon Hovannianian
- Dr. Ursula Mandel Scholarship
- Paulson Scholarship Fund
- Will Rogers Memorial Fellowship
- Steven J. Sackler Scholarship
- Charles F. Scott Fellowship
- Werner R. Scott Fund
- Malcolm R. Stacey Memorial Scholarship
- UCLA Faculty Women's Club Scholarship

Describe how you meet the special requirements for the departmental awards

**Diversity Fellowships Supplemental Information**

Primary language used at home	
Current parent/guardian 1 occupation	
Parent/guardian 1 occupation while in K-12	
Education of parent/guardian 1	
Current parent/guardian 2 occupation	
Parent/guardian 2 occupation while in K-12	
Education of parent 2/guardian 2	

**Research Interests**

Area 1.	Quantitative biology
Area 2.	Big data analysis
Area 3.	Population genetics

**Home Area Interests**

Additional Home Area Interest
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**Faculty Interests**

1.	KRUGLYAK Leonid - Human Genetics
2.	PASANIUC Bogdan - Pathology and Laboratory Medicine
3.	ROTTER Jerome - Medicine
4.	LUSIS Aldons - Microbiology Immunology and Molecular Genetics
5.	NELSON Stan - Human Genetics
6.	
7.	
8.	
9.	
10.	

**Extramural Fellowship Support**

**Report Results**[Return](#)

University of Utah Unofficial Transcript

Name: SHIMKO, TYLER

Student ID: [REDACTED]  
SSN: [REDACTED]  
Birthdate: [REDACTED]

## HONORS AND AWARDS

Phi Eta Sigma Honor Society

## BEGINNING OF UNDERGRADUATE SEMESTER CAREER

TEST CREDIT		Earned Score		
AP	May 15, 2010 American History	6.000	4	
AP	May 15, 2011 Biology	6.000	5	
AP	May 15, 2011 Chemistry	8.000	5	
AP	May 15, 2011 Language/Comp	6.000	4	

## Fall 2011

ANTH	2040 Anthropology of Humor	3.00	3.00	A
CHEM	2308 Online Prep Org Chem	1.00	1.00	A
CHEM	2310 Organic Chemistry I	4.00	4.00	A
CHEM	2315 Organic Chemistry Lab I	2.00	2.00	A
MATH	1050 Coll Alg	4.00	4.00	A

## Quantitative Reasoning (Math)

Term GPA: 4.000

Dean's List

## Spring 2012

BIOL	2010 Evol & Div of Life	3.00	3.00	A-
CHEM	2320 Organic Chemistry II	4.00	4.00	A
CHEM	2325 Organic Chem Lab II	2.00	2.00	A
MATH	1060 Trig	3.00	3.00	A-

## Quantitative Reasoning (Math)

PRTS	1420 NR-Ski Alpine	2.00	2.00	CR
UGS	4800 Undergrad Research UROP	1.00	1.00	A

Term GPA: 3.862

Dean's List

## Fall 2012

BIOL	2030 Genetics	3.00	3.00	A
BIOL	3510 Biological Chemistry I	3.00	3.00	B+
BIOL	5110 Mole Biol/Gen Eng	3.00	3.00	A-
HONOR	2102 Honors Core in Int Trad	3.00	3.00	A

## Humanities Exploration

MATH	1170 Calc Biol I	4.00	4.00	A
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Quant Reas (Math &amp; Stat/Log)

Term GPA: 3.813 16.000 16.000

Dean's List

Spring 2013

BIOL 2021	Principles of Cell Sci	4.00	4.00	A
Honors Course				
BIOL 3520	Biological Chemistry II	3.00	3.00	B
BIOL 4955	Individual Research	3.00	3.00	A
MATH 1180	Calc Biol II	4.00	4.00	A

Quant Reas (Math &amp; Stat/Log)

MUSC 2100 Hist of Rock'n Roll 3.00 3.00 A

Fine Arts Exploration

Term GPA: 3.824 17.000 17.000

Dean's List

Fall 2013

CS 1410	Object-Oriented Prog	4.00	4.00	A
DES 2615	Intro Design Thinking	3.00	3.00	A
Fine Arts Exploration				
Community Engaged Learning				
MATH 3070	Applied Statistics I	4.00	4.00	A
QRReas(Math&Stat/Log)&Intensive				
PHYS 2210	Physcs For Scien. & Eng. I	4.00	4.00	A-

Term GPA: 3.920 15.000 15.000

Dean's List

Spring 2014

BIOL 4995	Biology Honors Research	3.00	3.00	A
Honors Course				
BIOL 5140	Genome Biology	3.00	3.00	A
HONOR 3200	Research University	3.00	3.00	A
Upper Division Comm/Wrtg				
Honors Course				
MATH 3080	Applied Statistics II	3.00	3.00	A-
QRReas(Math&Stat/Log)&Intensive				
PHYS 2220	Phyics For Scien. & Eng. II	4.00	4.00	A

Term GPA: 3.944 16.000 16.000

Dean's List

Fall 2014

BIOL 3215	Cell Lab	2.00	0.00	***
BIOL 4995	Biology Honors Research	3.00	0.00	***
Honors Course				
BIOL 5221	Human Evol Genetics	4.00	0.00	***
Quantitative Intensive				
HONOR 3374	Special Topics	3.00	0.00	***

Drones and Society  
Soc/Behav Science Exploration  
Honors Course  
HONOR 3900 Imagined Communities 3.00 0.00 \*\*\*  
Humanities Exploration  
Honors Course

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Term GPA: 0.000 15.000 0.000

-----CAREER SUMMARY-----  
Cumulative GPA: 3.891  
Cumulative GPA Units: 91.000  
Units Enrolled: 108.000  
U of U Units Earned: 93.000  
Total Transfer Units: 0.000  
Total Test Credit: 26.000  
Total Other Credit: 0.000  
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Cumulative Units 119.000  
END OF UNDERGRADUATE SEMESTER CAREER

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I first came to appreciate the power of biological research in my high school biology class. Through the instruction of my incredibly devoted teacher, I recognized that genomic research had the power to make predictions about and alter the traits of living creatures. Upon graduating from high school, I chose to attend the University of Utah, where, with the help of the school's Office of Undergraduate Research, I had an immediate opportunity to become deeply involved in research and pursue my interests to the fullest. Since beginning my undergraduate studies, I have been fortunate to take part in research at three universities across the United States and participate in projects ranging from molecular biology to neurobiology to quantitative genetics. Through these experiences my appetite for discovery has only grown. I now seek to undertake the next step in my scientific education, the pursuit of a PhD, to prepare myself for a career in research.

During my freshman year at the University of Utah, I joined the laboratory of Dr. Erik Jorgensen to assist in the construction of universal transgene insertion sites within the genome of *C. elegans*. My project eventually resulted in the creation of three distinct transgene landing sites. It was exhilarating to discover, create, and share knowledge with others. However, my exposure to the broader research community, through presentations at university-level events, alerted me that there were other opportunities to learn new skills and make significant contributions. To expand my research skill set, I sought summer internships in laboratories focused on computational methods in addition to molecular biology. I obtained an offer from Dr. Leonid Kruglyak, of Princeton University at that time.

In Dr. Kruglyak's lab I worked with Dr. Erik Andersen, a post-doctoral fellow. Dr. Andersen had previously completed a genomic mapping experiment wherein he had determined a region of the *C. elegans* genome that conferred resistance to the herbicide paraquat and enlisted my help to construct strains in an attempt to identify the causal genomic variations in that region. I explored different techniques, using both modern molecular biology and more classical genetic crosses, to construct strains with which we could test the hypothesis that we had successfully identified causal genetic variants. Throughout the course of the summer, I supplemented my hands-on laboratory experience with instruction and practice with the computational methods that Dr. Andersen had employed in mapping experiments. This basic training in computer science and statistics eventually led me to take formal classes in these subjects at the University of Utah. These courses greatly expanded my research potential and prepared me to take on large projects with significant computational components. Dr. Andersen and I continued our collaboration in his new laboratory at Northwestern University in the following summers.

In the fall of 2012, I began a new project in the Jorgensen lab to identify suppressors of the phenotype associated with a mutant protein involved in synaptic vesicle endocytosis. I learned new techniques for the design and implementation of genetic screens and applied my new computational skills whenever possible. However, by the end of the academic year, it became apparent that the phenotype of interest was too weak for our suppressor screens to yield any useful information. While I was originally upset that our project and a year's worth of work were for naught, I quickly realized that failure is more of the rule than the exception in biological research. To continue toward a career in research, I would need to learn from failure and to fail gracefully. In fact, I learned that failure gives us many answers as well. In this respect, the year had not been wasted.

During my past two summers in Dr. Erik Andersen's lab I have had the opportunity to explore how genetic variation dictates the way in which organisms respond to their environment. I sought to determine the ways in which the genetic variation present in the worldwide

## Tyler Shimko

## Statement of Purpose

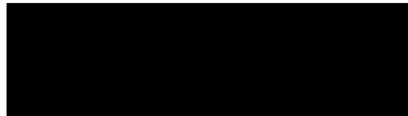
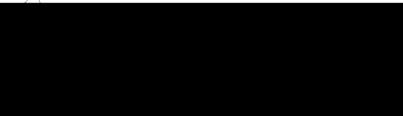
population of the model nematode *C. elegans* affects responses to different chemicals including herbicides, pesticides, chemotherapeutic agents, and anthelmintics (compounds used to treat infections of parasitic nematodes). I helped to construct and optimize a high-throughput screening technique that allows us to measure the effects of the aforementioned compounds on nematodes in a multitude of ways. This pipeline has allowed us to conduct genome-wide association and linkage mapping studies. Over the past summer, I designed and built software to clean and process the data from our screening experiments and run statistical tests to map phenotypic differences to genetic variants. This software, *COPASutils*, has been published in the journal *PLoS ONE* and made freely available on the Comprehensive R Archive Network. My hope is that this software will gain widespread use in the model organism research community.

During my junior and senior years, I have worked in the lab of Dr. Gillian Stanfield at the University of Utah. My project has focused on identifying mutations that suppress premature sperm activation in male *C. elegans*. I carried out a series of crosses and positive phenotype selections as part of a genetic mapping scheme, and, at the end of my first year, several strains that displayed the suppressed phenotype were sent for sequencing in the hopes of being able to identify causal mutations. Now, in my second year in the lab, I am beginning to utilize raw genetic sequence and mapping data to identify variants implicated in suppression. Eventually this project may help to identify the causal mutation for each of the individual suppressed strains. This work will culminate in the publication of my honors thesis.

Most recently, I have become deeply interested in the large-scale analysis of genomic data. I want to develop and refine the methods used to connect phenotypic traits back to specific genomic variants. This problem is interesting not only from a biological perspective, but also from a computational perspective. In order to accurately and efficiently connect physiological traits to genetic differences, a massive amount of phenotypic and genotypic data must be collected and analyzed. During my tenure in a PhD program, I will work to confront the theoretical, logistical, and scientific challenges related to problems in quantitative genetics.

I have selected UCLA due to its wealth of faculty and resources that will aid in the accomplishment of my scientific goals. UCLA's core facilities, including those related to computation, statistical analyses, and genomic and phenotypic data collection, will prove to be exceptionally useful. These facilities will provide adequate computing power and speed to conduct large scale genomic studies within a reasonable time scale. Additionally, faculty in the Department of Human Genetics will provide the guidance necessary to realize my potential as a geneticist. During graduate school, I would like to continue and expand the research I began as an undergraduate with Dr. Leonid Kruglyak. Dr. Kruglyak is pioneer in the study of quantitative genetics in the model organisms *C. elegans* and *S. cerevisiae*. I look forward to learning more about the theory of and mathematical support for the field of quantitative genetics from Dr. Kruglyak. I am also interested in the work of Drs. Bogdan Pasaniuc and Jerome Rotter, who have applied the concepts of quantitative genetics to model human diseases. The faculty and resources at UCLA will prepare me exceptionally well to begin a career in academic science.

**Tyler C. Shimko**  
tyler.shimko@utah.edu  
tylershimko.com

**Present Address****Permanent Address****Education**

H.B.S. in Biology, University of Utah, Salt Lake City, UT - Expected May 2015  
 Minor in Chemistry  
 Emphasis in Cellular and Molecular Biology  
 3.891 GPA

**Research Experience**

**University of Utah**, Dr. Gillian Stanfield  
 Salt Lake City, Utah

August 2014-May 2015

- Designed pipeline to align, call variants, and filter paired end sequence data
- Continuation of Honors Thesis project, thesis in prep

**Northwestern University**, Dr. Erik Andersen  
 Evanston, Illinois

May 2014-August 2014

- Developed pipeline for the cleaning, mapping, and analysis of linkage mapping phenotype data in *C. elegans*
- Developed COPASutils R package
- Second publication in prep

**University of Utah**, Dr. Gillian Stanfield  
 Salt Lake City, Utah

August 2013-May 2014

- Mapped suppressors of Me-86 phenotype using CloudMap mapping protocol in *C. elegans*
- Honors Thesis project, thesis in prep

**Northwestern University**, Dr. Erik Andersen  
 Evanston, Illinois

May 2013-August 2013

- Refined high-throughput phenotyping assay using COPAS (Union Biometrica) BIOSORT large-particle flow cytometer
- Collected large *C. elegans* phenotype data sets for exposure to chemotherapeutics, pesticides, heavy metals, and anthelmintics

**University of Utah**, Dr. Erik Jorgensen  
 Salt Lake City, Utah

August 2012-May 2013

- Examined role of UNC-41 in synaptic vesicle recycling in *C. elegans*
- Attempted suppressor screen for Unc-41 phenotype

**Princeton University**, Dr. Leonid Kruglyak  
 Princeton, New Jersey

May 2012-August 2012

- Created near isogenic lines for confidence interval under identified quantitative trait loci for body length and fecundity
- Publication in prep

**University of Utah**, Dr. Erik Jorgensen  
 Salt Lake City, Utah

August 2012-May 2013

- Constructed universal transgene landing sites in *C. elegans* genome

**Publications****\*-Indicates peer-reviewed publication**

- **Tyler C. Shimko** and Erik C. Andersen. COPASutils: An R Package for Reading, Processing, and Visualizing Data from COPAS Large-Particle Flow Cytometers. *PLOS ONE*. (2014) \*
- **Tyler C. Shimko** and Erik M. Jorgensen. Universal Transgene Insertion in *C. elegans*. *University of Utah Undergraduate Research Abstracts Journal, Volume 12.* (2012)

**Presentations****\*-Indicates presenter****§-Indicates poster**

- **Tyler C. Shimko\***. Linkage mapping with recombinant inbred lines. *Northwestern University Worm Club*. July 2014.
- **Tyler C. Shimko**, Robyn E. Tanny, and Erik C. Andersen\*. Using high-throughput fitness assays to decipher the genetic causes of *C. elegans* drug sensitivities. *Society for Molecular Biology and Evolution Meeting*. July 2013. §
- **Tyler C. Shimko** and Erik C. Andersen\*. Using natural variation to decipher the complex genetic cause of *C. elegans* drug sensitivities. *19<sup>th</sup> International C. elegans Meeting*. June 2013.
- **Tyler C. Shimko\***, Erik C. Andersen, and Leonid Kruglyak. Identifying the genes that control paraquat resistance in the roundworm *C. elegans*. *National Conference on Undergraduate Research*. April 2013. §
- **Tyler C. Shimko\***, Erik C. Andersen, and Leonid Kruglyak. Identifying the genes that control paraquat resistance in the roundworm *C. elegans*. *Utah Conference on Undergraduate Research*. February 2013. §
- **Tyler C. Shimko\***, Christian Frokjaer-Jensen, and Erik M. Jorgensen. Universal Transgene Insertion in *C. elegans*. *University of Utah Bioscience Symposium for Undergraduate Researchers*. April 2012. §
- **Tyler C. Shimko\***, Christian Frokjaer-Jensen, and Erik M. Jorgensen. Universal Transgene Insertion in *C. elegans*. *University of Utah Undergraduate Research Symposium*. March 2012. §

**Honors**

Dean's List – All semesters

Myriad Academic Excellence Award – Spring 2014

Barry Goldwater Scholarship (**Nationally competitive, research**) – Spring 2013

Theodore Verender Hanks Scholarship – Spring 2013

University of Utah College of Science Dean's Scholarship – Spring 2013

Full Resident/Half Non-Resident Partial Tuition Waiver Scholarship (Merit-based) – Fall 2012-Spring 2014

Undergraduate Research Opportunities Program Assistantship – Spring 2012

Full Resident Partial Tuition Waiver Scholarship (Merit-based) – Fall 2011-Spring 2012

**Related Activities** PLOS Student Blog Regular Contributer – Spring 2013-Present

Undergraduate Research Advisor – Spring 2013

Undergraduate Research Ambassador – Fall 2012-Fall 2014

**Undergraduate Course Highlights** 4 Semesters of Computer Labs in the R Language

2 Semesters of Probability and Statistics

1 Semester of Human Evolutionary Genetics (Population Genetics)

1 Semester of Genome Biology

1 Semester of Molecular Biology Theory

1 Semester of Computer Labs in the Python Language  
1 Semester of Computer Labs in the Java Language

Computer  
Languages

\*-Indicates self-assessed proficiency (1:Worst, 3:Best)

R (\*\*\*)

Python (\*\*)

Bash (\*\*)

JavaScript (\*\*)

Java(\*)

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