

# UPBM E-NEWSLETTER

Undergraduate Program in Biology and Medicine

UPBM E-NEWSLETTER November 2011

## Contents

What did UPBM Do Last Summer?.....pg 1

UPBM Poster Session 2011 Slide Show.....pg 2

2011 Study Abroad Scholarships.....pg 2

National Fellowship Opportunities.....pg 3

New Biostatistics Course Spring 12.....pg 4

Opportunities.....pgs 4-5

Helpful Links.....pg5

Contact Us.....pg5

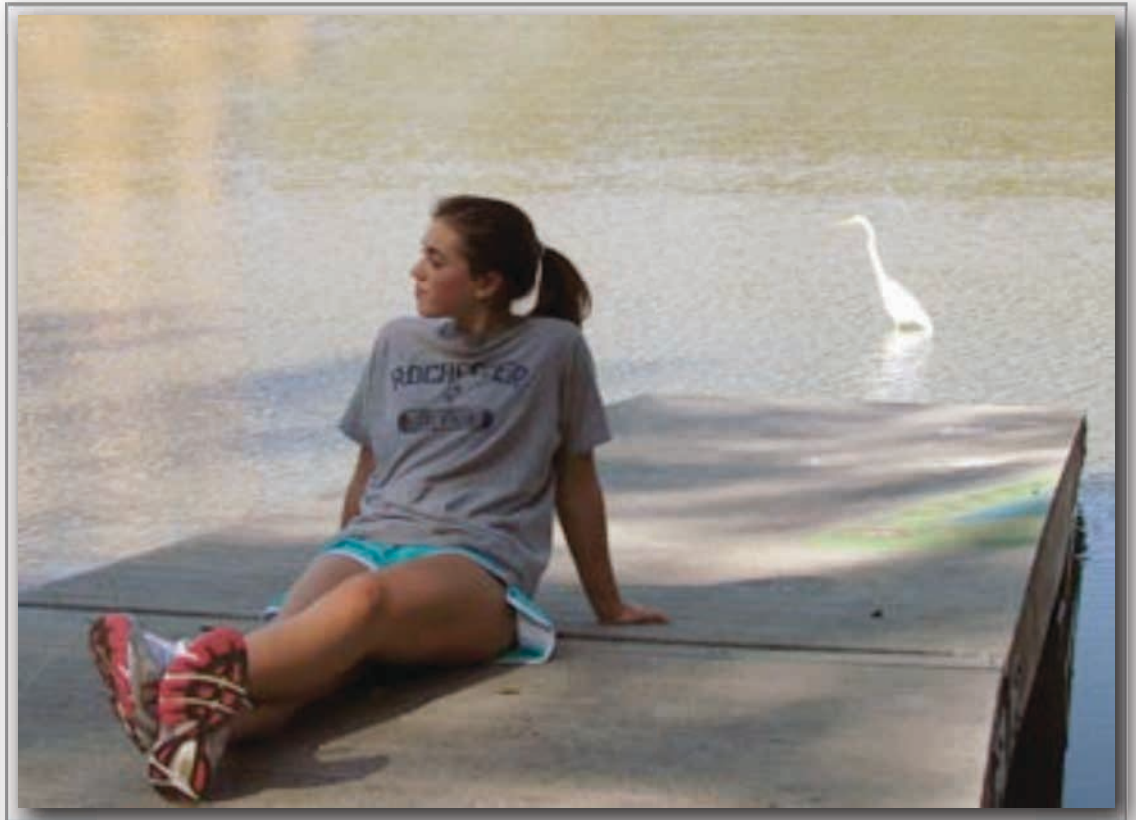


Photo Friday Submission "Freshman student hanging out with an egret." by Deborah Lawrence

## What Did UPBM Do Last Summer?

### Ashley Haluck-Kangas's DAAD-RISE Experience



Ashley Kaluck-Kangas '12, BIO

"My summer took me to a lab on the northern coast of Germany. Through the DAAD-RISE program I was paired with a Ph.D. student mentor and received a scholarship to improve my research skills and learn about research in Germany. I worked at the University of Greifswald in the Department of Functional Genomics. There I learned about the lab's work studying the internalization of *Staphylococcus aureus* into human epithelial cells. I was surprised by the high quality of the lab's facilities and equipment. Thanks to my Ph.D student mentor, I was able to gain valuable experience working with the lab's equipment. I learned many new skills and techniques in cell culture, bacterial culture, fluorescent microscopy, LC-MS, PCR, and running internalization experiments.

Outside of the lab I spent my days with other RISE students biking to the town's harbors, going to concerts, and cooking for each other. The town of Greifswald was actually a popular vacation destination in Germany, but unfortunately was an unusually cold, rainy summer on the Baltic. To escape the inclement weather, I visited other German cities on the weekends. It was really interesting to



see the diversity of culture between the different regions of Germany. I was able to explore the harbors of Hamburg, visit the beer gardens of Munich, hike the "Alps" of Berchtesgaden, and explore the alternative culture of Berlin. During my travels I learned a lot about how German's view their own history, and how they're still reconciling their past.

Living in Germany was not always easy. My German language skills consisted of two words before my arrival "nein" and "danke", and I sadly did not make much progress in my 12 weeks in Greifswald. What I did learn was the importance of communicating clearly and effectively, as well as patience. Adjusting to German culture, especially German bluntness was not always easy for me. However, I learned to adjust and found myself becoming quite close to my German coworkers. It was really the relationships I formed with other people that really made my experience.



So, if you're unsure of how you would like to spend your summer I would definitely recommend applying for an opportunity working in Germany with DAAD. I gained so much from my experience living in working and Germany, and would encourage anyone to apply to do the same. You can find out more here: <http://www.daad.de/rise/en/index.html>"



Thank you for sharing your summer experience with UPBM Colleagues.

## UPBM Poster Session 2011 Slideshow

### Big Biology Thank You to Presenters Who Made it a Big Success / Slideshow

This year's poster session was a big success thanks to:

- ★ Sthuthi David '12, BBC
- ★ Layla Hatem '12, BBC
- ★ Sneha Rath '12, BMG
- ★ Matthew DeMars '12, BBC / CHM
- ★ Hyein Jeon '12, BCD
- ★ Joseph Shapiro '12, BBC
- ★ Benjamin Green '12, BBC
- ★ Kateryna Kolesnikova '13, BBC / SB
- ★ Catherine Stevenson '12, BMB
- ★ Jonathan Grima '12, BNS
- ★ Brandon Podyma '12, BBC
- ★ Alaina Wayland '13, BNS

See slide show of poster session on-line at: [http://www.rochester.edu/college/BIO/UPBM/UPBMPosterSession/2011\\_Slideshow.mov](http://www.rochester.edu/college/BIO/UPBM/UPBMPosterSession/2011_Slideshow.mov)

## 2011 Study Abroad Scholarships

### Congratulations Ashley Haluck-Kangas '12, BIO and Kindred Harris '12, BIO

Nine University of Rochester students have been awarded Benjamin A. Gilman International Scholarships for fall 2011. Students are chosen through a competitive application process. The scholarship program seeks to increase the number of students who choose non-traditional locations, students with financial need, and students from under-represented fields, such as engineering and science. Nine undergraduates were selected from a national pool of applicants. This year's recipients are:

**Ki Cheng** (Orlando, Fla.), a junior psychology major, will study in Copenhagen, Denmark. **Breanna Eng** (Holtsville, N.Y.), a junior chemistry major, will study in Auckland, New Zealand. **Ryan Gelfand** (Laytonsville, Md.), a junior archaeology, technology, and historical structures major, will study in Arezzo, Italy. **Ashley Haluck-Kangas** (Greensburg, Pa.), a senior biology major, will study in Helsinki, Finland. **Kindred Harris** (Hermansville, Miss.), a senior biology major, will study in London, United Kingdom. **Nathaly Luna** (Corona, N.Y.), a junior religion major, will study in Rabat,

Morocco. **Zachary Palomo** (Hondo, Texas), a junior international relations and Russian major, will study in St. Petersburg, Russia. **Megan Roberts** (Rochester, N.Y.), a senior health and society major, will study in Cape Town, South Africa. **Madeline Skellie** (Greenwich, N.Y.), a junior international relations major, will study in Cape Town, South Africa.....[more](#)

**Related:**

\*[Rochester Students Awarded Competitive Study Abroad Scholarship Article 2011-07-21](#)

\*[Fellowships Office Website](#)

## National Student Fellowship Opportunities

### Carpe Diem

Now's a good time to take notice of some of the major national and international fellowships opportunities for students majoring in math, science, and engineering fields. There's a host of prestigious, competitive awards for such students who have strong academic records, a demonstrated passion and acumen for research, potential for success in advanced study, and a commitment to research and/or teaching focused career for more information visit the student fellowships website at: <http://www.rochester.edu/college/studentfellowships/> or contact the Director of Fellowships, Belinda Redden.

It's been said that some students do not realize their own potential? Please tell me that's not true. There are many talented UPBM majors who owe it to themselves to seize opportunities that could significantly impact their lives and career.

## New BIO 214 Biostatistics Course

### Coming to Biology Spring of 2012

New this spring, the Biology Department will be offering a Biostatistics Course (BIO 214) instructed by Dr. Danielle Presgraves.

BIO 214 is a 4-credit course. Enrollment will be open to 50 students. The course is scheduled on Mondays, Wednesdays and Fridays from 1pm - 1:50pm in Goergen room 108.

UPBM majors may use BIO 214 to satisfy a STT201/212 requirement or allied field elective. Please note that, because of the significant overlap between the existing statistics courses, students may earn major credit for only one of the following courses: BIO214, CSP/PSI 211, STT211, STT212 and STT213. Check with your advisor to discuss possible applications.

According to Dr. Presgraves: "This course will familiarize students with statistical concepts necessary to evaluate the primary literature in the biological sciences. It will

improve students' statistical literacy and sharpen their analytical thinking. This course will introduce students to statistical reasoning so that they can evaluate research and ideas, including their own, with a well-calibrated and skeptical eye.

Topics covered in the course will include: descriptive statistics, estimation, elementary probability theory, statistical distributions, hypothesis testing, goodness of fit, experimental design, correlation, analysis of variance and regression.

The subject material covered in BIO 214 will be similar to that of STT 213 but, as applied to biological questions and motivated by biological problems."

For more information about the course visit: [daniellepresgraves@gmail.com](mailto:daniellepresgraves@gmail.com)

## Opportunities

### Links to Program Information

Alaskan Observers North Pacific Ground Fish Observer Positions Available Year-Round: <http://www.alaskanobservers.com/observer.html>

Albert Einstein Summer UG Research Program: <http://www.aecom.yu.edu/phd/index.asp?surp>

American Association for Cancer Research Minority Scholar in Cancer Research Awards: <http://www.aacr.org/home/scientists/meetings--workshops/travel-grants/minority-scholar-awards.aspx>

Amgen Scholars Program At Columbia University <http://www.columbia.edu/cu/biology/ug/amgen/>

Berkeley Amgen Scholars Program <http://amgenscholars.berkeley.edu>  
Case Western Reserve Summer Research Program [http://casemed.case.edu/admissions/research/summer\\_programs.cfm](http://casemed.case.edu/admissions/research/summer_programs.cfm)

Case Western University Summer UG Research in Pharmacology <http://pharmacology.case.edu/education/surp.aspx>

The Chicago Center for Systems Biology Summer REU <http://www.igsb.org>

Cold Spring Harbor Laboratory Watson School of Biological Sciences Undergraduate Research Program <http://www.cshl.edu/URP/>

Columbia University/Barnard College Amgen Scholars Summer Research Program <http://www.columbia.edu/cu/biology/ug/amgen/>

Columbia University BiolGERT Fellows Program: <http://www.bioigert.columbia.edu>

Columbia University / Master's Program in Climate and Society: <http://www.columbia.edu/cu/climatesociety/>

Columbia University MPA in Environmental Science and Policy Information: <http://www.columbia.edu/cu/mpaenvironment/pages/program.html>

Columbia University / MS in Nutrition: <http://cumc.columbia.edu/dept/ihn/student/PerspectiveStudents.html>

Educational Programs Abroad (EPA): <http://www.epa-internships.org>

Fulbright Scholarship Program <http://us.fulbrightonline.org/home.html>.

Fred Hutchinson Cancer Research Center UG Faculty Links to Internships in Scientific Research of Medicine

[http://www.fhcr.org/science/education/Cancer%20Research%20Internships\\_FHCR%20site.pdf](http://www.fhcr.org/science/education/Cancer%20Research%20Internships_FHCR%20site.pdf)

Fred Hutchinson Cancer Research Center SURP Program <http://www.fhcr.org/science/education/undergraduates/>

Harvard School of Public Health Summer Program in Biological Sciences in Public Health <http://www.hsph.harvard.edu/academics/biological-sciences/undergraduate-summer-internship-program/>

Institute for Health Metrics and Evaluation Post-Bachelor Fellowship <http://www.healthmetricsandevaluation.org>

LUMCON 2012 Summer Field Program [www.lumcon.edu/education/university/summer](http://www.lumcon.edu/education/university/summer)

Journal of Young Investigators (JIY) <http://www.jyi.org/participate.php>

Kupcinet-Getz International Summer Science School 2011 <http://www.fgs.org.il/en/>

Marine Mammal Research Internships <http://www.whalecenter.org>

MedLife <http://www.medlifeweb.org/>

MIT BE REU Program <http://web.mit.edu/be/education/reu.htm>

NASA Space Radiation Summer School <http://www.dsls.usra.edu/spacerad/2011>

National Academies Research Associate Program: <http://www7.nationalacademies.org/rap/>

National Academies Fellowships Program <http://www.national-academies.org>

The National Cancer Institute's Integrative Cancer Biology Program [http://icbp.nci.nih.gov/summer\\_program/](http://icbp.nci.nih.gov/summer_program/)

National Institute of Allergy and Infectious Diseases (NIAID), Intramural NIAID Research Opportunities (INRO); for more information visit: <http://www3.niaid.nih.gov/labs/training/inro/>

National Science Foundation's Graduate Research Fellowship Program (GRFP) <http://www.nsfgrfp.org/>

The Nemours Summer Undergraduate Research Scholarship at Alfred I. duPont Hospital for Children

New York State Dept. of Environmental Conservation  
 Summer Job Opportunities  
<http://www.dec.ny.gov/education/1869.html>

Northeastern University Three Seas Program  
<http://www.threeseas@neu.edu>

Pasteur Foundation Internship in Paris - **Deadline 12/16/11**  
<http://www.pasteurfoundation.org/pdf/PasteurInternshipApp2012.pdf>

Physician Assistant Education Website  
<http://physician-assistant-ed.com/>

RISE (Research Internships in Science and Engineering)  
<http://www.daad.de/rise/en/>

Rochester Academic of Science Student Research Grants  
<http://www.rasny.org/>

Roswell Park Summer Research Participation Program [http://www.roswellpark.org/Education/Summer\\_Programs](http://www.roswellpark.org/Education/Summer_Programs)

Sloan-Kettering Summer Undergraduate Research Program /  
<http://www.sloankettering.edu/gerstner/html/54513.cfm>

South Western Medical Center Summer UG Research Fellowship (SURF) <http://www.utsouthwester.edu/SURF>

South Western Medical Center Quantitive and Physical Science Summer Undergraduate Research Fellowship (QP-SURF) <http://www.utsouthwester.edu/QP-SURF>

Southern Teachers Agency / Biology Teaching Jobs  
<http://www.southernteachers.com/>

St. John Fisher Wegmans School of Pharmacy  
<http://www.sjfc.edu/pharmacy/admissions>  
 Stowers Scholar Program  
<http://www.stowers-institute.org/ScientistsSought/training/scholarsprogram.asp>

Teach for America  
<http://www.teachforamerica.org>

The UNCF Merck Science Initiative Science Scholarships and Fellowships: <http://www.uncf.org>

University of Kansas EEB Graduate Program  
<http://www.ku.edu/~eeb>

U of R Undergraduate Research Job Service:  
<http://www.rochester.edu/College/ugresearch/jobs/>

U of R National Fellowships and Scholarships Website:  
<http://www.rochester.edu/College/CCAS/fellowships>

Wadsworth Center Summer Research Program 2011 in Molecular and Cellular Biosciences <mailto:http://www.wadsworth.org/educate/molcel.htm>

Weizmann Institute of Science Annual Kupcinet-Getz International Summer Science School  
<http://www.fgs.org.il/en/article.php?id=221/>

## Helpful Links

### Information to Other UR Departments

- Athletics
- Biology Department
- Dining
- Directory
- Employee Discounts
- Facilities
- Libraries
- Undergraduate Program in Biology & Medicine
- University Information Technology
- University Counseling Center

## Contact Us

### We Want to Hear from You

Please feel free to send submissions and / or any feedback to the [UPBM Administrator](#).