

Subject: [BioAdv] Newsletter 11/6/2018
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From: BioAdvising on behalf of Bio Dept Majors' Announcements <bioadvising@list.pitt.edu>
To: Bio Dept Majors' Announcements <bioadvising@list.pitt.edu>
Attachments: ATT00001.txt

Bio Advising Newsletter – 11/6/2018

OVERVIEW (See below for details)

ADVISING

1. Advising Meetings & Quick Questions
2. Walk-In Resume/CV Feedback with Ellen
3. Seniors: Apply for April Grad – deadline Nov 9
4. Departmental Honors Application – deadline Nov 30

BIO PEER ADVISING

5. Peer Advisor Regular Office Hours
6. Bio Blogs: Transfer Experience & Pre-Vet Microbio Major

SPRING COURSES

7. BIOSC 1590 Honors Genetics Seminar (Precision Medicine)
8. COMMRC 1731 Discourses of Medicine and Health

CHECK IT OUT

9. Canna Lab Research Opportunity
10. Neurosurgery Dept Research Opportunities
11. Deeper Dude Event for Cystic Fibrosis Foundation – Nov 6
12. Pitt Med Student Mentorship Alliance Info Session – Nov 6
13. Genetic Counseling Club Meeting – Nov 6
14. ACC Student Leadership Symposium – deadline Nov 7
15. Lecture: How Satellites & Mapping Tools Can Help End International Poverty – Nov 8
16. Fall 2018 Diversity Career Conference & Fair – Nov 9
17. Dietrich School Peer Advisor Internship – deadline Nov 12
18. HELP Volunteer Program – Nov 12, Dec 4

GRAD PROGRAMS

19. Pitt's Graduate School Fair – Nov 8
20. Pitt Grad School for Public Health Open House – Nov 9
21. Ohio State Biomed Sciences PhD Program – deadline Dec 1
22. Boston Univ NSF NRT Research Training Program – deadline Dec

SUMMER OPPORTUNITIES

23. RIT's List of Opportunities
24. Monell Science Apprenticeship – deadline Dec 14
25. CHOP Phila REU – deadline Jan 31
26. AMGEN Scholars Program – deadline Feb 1
27. Pitt SOM SURP – deadline Feb 1
28. Pitt Vascular Med SURP – deadline Feb 28

GAP OPPORTUNITIES

29. Yale's List of Opportunities
30. PULSE Fellowship Open House – Nov 8
31. NIMH Mood Brain Development Unit – deadline Dec 15

32. Institute for Health Metrics Post-Bac Fellowship – deadline Jan 10

*** DETAILS *** DETAILS ***

1. Advising Meetings & Quick Questions

If you still have an Advising Hold for Spring enrollment, come see us in A258 Langley Hall! We can lift your academic advising hold even if you have a financial hold, please come see us!

The Bio Advisors are here to help, and we have lots of time now that the enrollment rush is past. Even if you've had your appointment, feel free to come back with questions or ideas or just to chat.

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2. Walk-In Resume/CV Feedback with Ellen

Ellen will be holding walk-in hours in for resume/CV feedback on Thursdays and Fridays. Bring a copy of your resume/CV if you want to review it with her.

Where: A257 Langley

When: Thursdays 2-3pm, Fridays 12-1pm

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3. Seniors: Apply for April Grad – deadline Nov 9

Planning on graduating in April 2019? **Go to 140 Thackeray** to pick up, and return, your *Application for Graduation*.

Do this before Nov 9. It is 3 pages and free to apply. Applications turned in after the Nov 9 deadline will be assessed late fees.

You will receive more information on Commencement and our Departmental Senior Recognition Ceremony in the Spring.

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4. Departmental Honors Application – deadline Nov 30

Are you a current sophomore or junior who is actively doing research and are interested in eventually writing a thesis and earning departmental honors? This program may be for you!

More info & application: <https://www.biology.pitt.edu/undergraduate/advising-and-support/honors>

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5. Peer Advisors Regular Office Hours

You should have already enrolled in classes! Want to talk through your classes and academic plan with our Peer Advisors?

Peer Advisors will be holding regular walk-in hours in Langley A230 (across from Langley Lobby!)

- Mondays 10-11 with Julia & Sofie
- Tuesdays 9-10 with Nora & Parker
- Thursdays 1-2 with Lisa & Michaela
- Fridays 2-3 with Isabella & Owen

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6. Bio Blogs: Transfer Experience & Pre-Vet Microbio Major

This week, we have TWO blogs for you!

1. Isabella shares her experience as transfer student from Pitt-Greensburg: <http://bit.ly/2F3GErK>
2. Parker shares about being a Pre-Vet Micro major: <http://bit.ly/2QnK3CX>

7. BIOSC 1590 Honors Genetics Seminar (Precision Medicine)

Dr. Lewis Jacobson will again be offering in the upcoming spring term the 1-credit, BIOSC 1590 Honors Genetics Seminar.

The focus is on scientific and policy aspects of "Precision Medicine", with an emphasis on Genetics, but also Biochemistry and Bioinformatics. Study genetic advancements made in just the last 2 years, and discover that much of what we thought we knew about medicine is vastly oversimplified. Learn how large samples have led us astray, and how new methods are allowing us to understand patients' needs on an individual basis.

There is a heavy writing component, but this does NOT count as a Writing-Intensive course.

Minimum requirements:

- Minimum Cumulative GPA: 3.25
- Pre-req: BIOSC 0350 Genetics

Contact Dr. Jacobson with additional questions at ljac@pitt.edu

8. COMMRC 1731 Discourses of Medicine and Health

TTh 4-5:15 pm
Professor: Lyne

The course focuses on themes, issues, and patterns of communication in and about modern medicine and health care. Topics include the discourses of wellness and disease, narratives of illness, communicating pain and suffering, communicating empathy, the expanding role of pharmaceuticals and medical enhancements, hospitalization, digital access, physical and mental health, differences of culture, race, and gender, inequities in access, and conceptions of the right to health care. Students will be asked to respond to readings in class discussion and presentations, short quizzes, and written reactions. There will be a mid-term and a final exam.

9. Canna Lab Research Opportunity

The Canna lab at Children's Hospital is looking for undergraduates interested in contributing to translational research into the mechanisms underlying systemic inflammation and intestine/immune crosstalk. Work study and research-for-credit positions currently available.

Contact Dr. Canna at scott.canna@chp.edu.

More information about the lab:

- Lab Site: <http://www.chp.edu/research/rkmfi/research-labs/canna-lab>
- About the PI: <https://www.immunology.pitt.edu/person/scott-canna-md>
- Publications: <https://www.ncbi.nlm.nih.gov/pubmed/?term=canna+s>

10. Neurosurgery Dept Research Opportunities

If interested in any of the below opportunities, contact Ray Funahashi at RayFunahashi@gmail.com.

Broca Stimulation Paper (potentially 1st/2nd author)

- Description: Writing a review paper which discusses potential surgical and non-surgical approaches to stimulate Broca's area in order to improve symptoms of dysarthria, particularly after left MCA stroke.
- Commitment: Help find previous journals and research that involve or are related to deep brain stimulation, in particular of Broca's area in the brain in order to support an argument for the implementation of research on Broca area stimulation to treat dysarthria symptoms. Involvement also includes constructing tables and

figures, and writing parts of the paper.

A Book Chapter in “Evolution in Health Literacy” by Nitin Agwaral MD (potentially 1st/2nd author)

- Description: Assist in writing one of two chapters in the book involving “Innovations in Overcoming Language and Cultural Barriers in Patient Education within the United States” and “Virtual Reality, Artificial Reality, and Artificial Intelligence in Modern Patient Education.”
- Commitment: Assisting in finding sources that discuss elements related to either chapter and how techniques, innovations, and programs are being implemented or involved within the given subjects of each chapter respectively.

Patient Education using multimedia (potentially 3rd author, or 1st/2nd for different disease study)

- Description: Testing for the effectiveness of using different forms of multimedia in clinics to increase patient comprehension of a particular treatment and diagnosis of Scoliosis. The previous phase involved collecting data on the effectiveness of slideshows and images relevant to the patient’s diagnosis for a different disease- - Cerebral Brain Aneurysm)
- Commitment: Helping to design videos to show patients on an iPad about their condition that may require neurosurgery. Students will also help create surveys and questionnaires to test the patients’ knowledge. Subsequently, students will attend neurosurgery clinics once or twice a week to collect data from consenting patients. Graphic or video skills are a plus but not necessary

Cranioplasty Review Paper (potentially 1st/2nd author)

- Description: Writing a review paper that discusses recent large-scale studies to examine whether factors materials, neuroanatomical position or time delay may be affecting instances of complications during cranioplasty surgery.
- Commitment: Collecting studies that involve cranioplasty surgery in order to collect data on complications involved with the procedure. Compiling the data collected from the sources for analysis to examine if particular materials, locations, and time-frames are related to a particular complication in the surgery. Involvement also includes constructing tables and figures and writing parts of the paper.

Research Access Survey Study (potentially 2nd/3rd author)

- Description: We are interested in researching further limitations on research access to those interested in getting involved. This project involves sending an online survey (via Qualtrics) to science and medical researchers and science graduate students asking about the current challenges they face in finding research resources and keeping up-to-date on academic literature
- Commitment: Helping with the logistics of online data collection and writing the paper

Design and testing of Online Science Research Platform (cv credentials only)

- Description: A project endorsed by the Mayor of Pittsburgh! We are designing and testing an online platform we want to use to connect every research laboratory in the world-- starting with all of Pittsburgh’s labs.
- Commitment: A demo is currently being built so students would help with additional design, testing for bugs and issues, putting in test data, and then surveying users for their feedback.

Documentary on Science Research Collaboration (cv credentials only)

- Description: We are planning and designing a documentary on science collaboration told in a story format. We want to highlight the challenges, why, and how research collaboration happens. We plan to interview researchers behind multi-disciplinary projects in Pittsburgh, as well as learn the principles of collaboration behind the International Space Station, Large Hadron Collider, and the Human Genome Project. We also will be telling the mission and story behind the Online Science Research platform we are building to connect every research lab in the world.
- Commitment: We need students who are very enthusiastic about planning the logistics of crating and shooting a documentary film, and crafting the storyline. Students will help do background research on each major project we intend to cover in the documentary, plan the interview questions, and if able, will travel to help interview researchers also. Students who are skilled in video editing, music editing, animation, graphics design or other applicable skills are also appreciated.

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11. Deeper Dude Event for Cystic Fibrosis Foundation – Nov 6, 8pm, Bellefield Auditorium

Who: The ladies of DPhiE are hosting, all of Pitt's campus is invited!

What: A male pageant that invites contestants from various organizations (both Greek and non-Greek) on campus to compete against each other for the highly coveted title of Pitt's 'Deeper Dude'!

Why: To raise funds and awareness for the Cystic Fibrosis Foundation! CF research and clinical trials receive no federal funding, and they rely on organizations such as DPhiE for the funds to make CF stand for Cure Found. Last year, DPhiE raised over \$9,000 for the cause, and this year, they are projected to raise over \$10,000 while engaging even more of the community with YOUR help!

More info on Deeper Dude: <https://pittdeeperdude2018.passioncff.org/>

More info on event: <https://www.facebook.com/events/706846546349356/>

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12. Pitt Med Student Mentorship Alliance Info Session – Nov 6, 8pm, Scaife LR1

Please sign up below to attend the PMSMA info session and presentation about "What Makes a Good Medical School Applicant". This info session is MANDATORY to join the mentoring program.

You have to be a current sophomore to join the program.

Sign up link: <https://goo.gl/forms/sGUe4qD1U9FW4NDo1>

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13. Genetic Counseling Club Meeting – Nov 6, 7:30-8:30pm, Clapp 310

Hear about different genetic counseling specialties and students' shadowing experiences!

Club contact info:

<https://www.facebook.com/groups/geneticcounselingclub/>
pittgeneticcounselingclub@gmail.com

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14. ACC Student Leadership Symposium – deadline Nov 7

The ACC Leadership Symposium is a leadership development program for student leaders and advisers. This year's theme is "Nourishing Our Communities: Uniting Against Hunger". The event will be held at North Carolina State's campus from February 22nd – 24th, 2019.

Participants will be asked to learn about the issue of food insecurity and initiatives that exist to address it. The curriculum will also encourage participants to consider their ability to contribute to the needed research, design innovative interventions, and create or adjust policies.

This is an important issue for all of our institutions, as research estimates that 36 % of university students and 42-56% of community college students were food insecure in the 30 days prior to being surveyed. Food insecurity is defined as "the limited or uncertain availability of nutritionally adequate and safe foods, or the ability to acquire such foods in a socially acceptable manner."

More info & apply: <https://www.studentaffairs.pitt.edu/cld/lead/>

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15. Lecture: How Satellites and Mapping Tools Can Help End International Poverty – Nov 8, 7pm, University Club

The University Honors College will be hosting at the University Club one of the world's leading experts on this topic to discuss: **"From Space to Village: How Satellites and Mapping Tools Can Help End International Poverty."**

The speaker is Carrie Stokes, who was recently nominated for the "Nobel Prize" for U.S. government employees

called the "Service to America Medal":

https://servicetoamericamedals.org/honorees/view_profile.php?profile=433

Free and open to public, RSVP here: <https://pitt.wufoo.com/forms/mhf3mof1dll8t3/>

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16. Fall 2018 Diversity Career Conference & Fair – Nov 9, 9am-2:30pm, WPU

The [Diversity Career Conference and Fair](#) will be on Friday, November 9, from 9 a.m.-2:30 p.m. in the William Pitt Union. Learn to navigate the complexities of a diverse workplace and overcome barriers to employment.

Check out the schedule to pick and choose which events you want to attend! Attendance is not mandatory at all events. 20+ employers, including Amazon, Google, UPMC, and more will be here to meet you. [Click here for more information!](#) Pre-registration is encouraged, but not required.

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17. Dietrich School Peer Advisor Internship – deadline Nov 12

The Advising Center is now accepting applications for the next cohort of students for the Dietrich School's Peer Advisor program. Peer Advisors support the front desk operations of the Advising Center, and serve as an important resource for undergraduate students with questions about scheduling courses, deciding on a major/minor/certificate to pursue, and various other concerns.

More info & apply: <http://bit.ly/2Er5j9b>

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18. HELP Volunteer Program – Nov 12, Dec 4

The Hospital Elder Life Program (HELP) at Allegheny Health Network is a clinical volunteering opportunity at West Penn and Allegheny General Hospital that gives individuals a hands-on patient experiences with older adults on in-patient floors. The program is designed to prevent delirium in hospitalized patients.

Start the volunteer process by attending one of the open houses at West Penn Hospital on 4800 Friendship Avenue.

- Monday, November 12: 5-7pm
- Tuesday, December 4: 5-7pm

RSVP and questions can be directed to Autumn Corcoran at autumnmoss.corcoran@ahn.org or 412-578-5103.

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19. Pitt's Graduate School Fair – Nov 8, 1-3pm, WPU

Meet with University of Pittsburgh Graduate Schools and receive answers to questions about admissions, tuition, fees, finance, and career opportunities. All students in attendance are eligible to win a \$1,000 scholarship prize!

Graduate schools in attendance include:

- Dietrich School of Arts & Sciences
- Graduate School of Public and International Affairs
- Graduate School of Public Health
- Katz Graduate School of Business
- Pitt Law
- School of Computing & Information
- School of Education
- School of Health and Rehabilitation Sciences
- School of Medicine - Graduate Studies Office
- School of Nursing - Accelerated 2nd Degree BSN
- School of Pharmacy

- School of Social Work
- Swanson School of Engineering

No pre-registration required. [Click here for more details.](#)

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20. Pitt Grad School for Public Health Open House – Nov 9, 10am-3pm, Public Health Building

At the Pitt Graduate School for Public Health Open House: meet faculty, staff, and students; discover career opportunities; explore the application process; learn about the Public Health departments and programs.

More info & register: <http://www.publichealth.pitt.edu/open-house>

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21. Ohio State Biomed Sciences PhD Program – deadline Dec 1

The Biomedical Sciences Graduate Program (BSGP) in the College of Medicine at Ohio State is the umbrella PhD program offered by the College of Medicine. A T32 training award in Systems in Integrative Biology from the National Institute of General Medical Sciences supports the graduate program. The BSGP is an umbrella program that includes faculty from multiple departments in the basic and clinical sciences. The BSGP provides an efficient, rigorous curriculum with high quality laboratory training to prepare its graduates for successful careers in biomedical research. The mission of the BSGP is to improve health care through innovation in research based on an understanding of how multiple organ systems and physiological processes function.

More info & apply: <http://medicine.osu.edu/bsgp>

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22. Boston Univ NSF NRT Research Training Program – deadline Dec

Boston University is starting the third year of the [NSF NRT Research Training Program](#) on the topical area of Understanding the Brain with a specialization in Neurophotonics. Neurophotonics is the understanding of how neural activities at the cellular scale drive computation, behavior and psychology.

More info & apply: <http://www.bu.edu/neurophotonics-nrt/apply-now/>

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23. RIT's List of Opportunities

Rochester Institute of Technology (RIT) has an expansive list of summer research opportunities. These are not updated for 2019, but you can go to individual programs and see if the individual programs have been updated. Deadlines are soon approaching and you will want to start looking now!

More info: <http://bit.ly/2F3gghl>

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24. Monell Science Apprenticeship – deadline Dec 14

The Monell Science Apprenticeship Program brings high school and undergraduate college students to the Center each summer to conduct experiments related to the senses and nutrition.

An intensive eight-week internship allows students to participate in structured research experiences, as well as in a number of enrichment activities. The budding scientists gain an increased appreciation of the chemical senses, and also valuable experience in the world of working scientists: a demystification of science, the development of critical thinking skills, and hands-on experience of the scientific process.

More info & apply: http://www.monell.org/education_training/science_apprenticeship_program

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25. CHOP Phila REU – deadline Jan 31

The Center for Injury Research and Prevention (CIRP) at the Children's Hospital of Philadelphia Research Institute hosts the Injury Science Research Experiences for Undergraduates (REU) program, a 10-week paid summer research internship opportunity for undergraduate students. CIRP is a leading multidisciplinary center engaged in collaborative cross-discipline research implementing real-world applications.

The REU program, sponsored by the [National Science Foundation \(NSF\)](#), provides underrepresented students with mentorship and hands-on research experience in the fields of engineering, behavioral science, education, population science, and statistics. Students will apply this scientific foundation to assist in developing evidence-based prevention products, programs, policies, and interventions.

More info & apply: <https://injury.research.chop.edu/training-opportunities/reu>

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26. **AMGEN Scholars Program – deadline Feb 1**

The Amgen Scholars Program aims to open the door to research opportunities at 24 host institutions for undergraduates from any four-year college or university in a given region. Made possible through a 16-year, \$74 million commitment from the Amgen Foundation, Amgen Scholars allows undergraduates from across the globe to participate in cutting-edge research opportunities at world-class institutions. 24 premier educational and research institutions across the U.S., Europe, Asia, Australia and Canada currently host the summer program. Undergraduate participants benefit from undertaking a research project under top faculty, being part of a cohort-based experience of seminars and networking events, and taking part in a symposium in their respective region where they meet their peers, learn about biotechnology, and hear from leading scientists.

More info & apply: <http://amgenscholars.com/us-program/>

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27. **Pitt SOM SURP – deadline Feb 1**

Six graduate programs in the Pitt School of Medicine sponsor SURP - an annual Summer Undergraduate Research Program. SURP participants engage in an intensive 10-week program designed to provide hands-on experience in biomedical research, together with guidance on how to plan for a research-related career. SURP-2019 will run from May 20 through July 26, 2019.

Through SURP, aspiring biomedical scientists gain significant experience to help decide whether a life in research is “right” for them. SURP serves as a stepping-stone from undergraduate studies to advanced PhD training in the biological and biomedical sciences.

More info & apply: <http://somgrad.pitt.edu/programs/summer-research/summer-undergraduate-research-program>

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28. **Pitt Vascular Med SURP – deadline Feb 28**

The [University of Pittsburgh](#), in cooperation with the [American Heart Association](#) and the [Vascular Medicine Institute](#), offers a stipend to support summer research experiences in cardiovascular sciences or brain ischemia research for undergraduates mentored by a University faculty member. The SURP is designed to expose students to cutting-edge basic and translational cardiovascular research.

More info & apply: <http://www.vmi.pitt.edu/aha-surp/index.html>

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29. **Yale’s List of Opportunities**

The Yale Office of Career Strategy has a great list of gap year and short-term opportunities to look into! Opportunities include health-related, policy, environmental, sustainability, teaching, and more!

More info: <http://bit.ly/2yV9ips>

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30. **PULSE Fellowship Open House – Nov 8, 7-9pm, 317 Kingsboro Street**

[PULSE](#), Pittsburgh Urban Leadership Service Experience, cultivates a community of young servant leaders to transform Pittsburgh. They invite talented university graduates to partner with Pittsburgh nonprofits for a year of service and leadership.

PULSE achieves this purpose through nonprofit partnerships, community living, and ongoing training and development.

Hear from [current PULSE fellows](#) about how you can **serve, live, and grow with PULSE** during a year of service and leadership!

More info & register: <http://bit.ly/2IZDL9E>

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31. NIMH Mood Brain Development Unit – deadline Dec 15

The Mood, Brain and Development Unit (MBDU) at the National Institute of Mental Health (NIMH) in Bethesda, Maryland, is recruiting applicants for two-year, paid Intramural Research Training Award (IRTA) Fellowship with employment beginning in June 2019.

MBDU conducts research using fMRI data to study pathophysiology, treatment and prevention of childhood mental illnesses, with an emphasis on major depressive disorder in children and adolescents. IRTA Fellows are involved in all aspects of the clinical research process, including analyzing data and interacting with patients.

Apply: <https://goo.gl/forms/kpkRpkfzFNS40qeh1>

Send an updated resume or CV and unofficial transcript to Christine Wei at christine.wei@nih.gov.

Applicants should also complete the NIH's universal IRTA application found at https://www.training.nih.gov/programs/postbac_irta by **January 15, 2019** to be considered for this position.

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32. Institute for Health Metrics Post-Bac Fellowship – deadline Jan 10

Fellows at the Institute for Health Metrics and Evaluation (IHME) impact the health of billions of people by analyzing data and developing new tools. At IHME, we analyze the world's health data to make better decisions about important health problems. This requires insights from a variety of fields, from computer science to anthropology.

Post-Bachelor Fellows (PBFs) use creativity to solve complex global health problems. As a PBF, you will join a community of passionate researchers in our dynamic research institute. We value diversity, innovation, and critical thinking.

More info & apply: <http://www.healthdata.org/post-bachelor-fellowship>

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Until next week,

Christine Berliner
Ellen Kelsey
Jessica Wandelt
Dan Wetzel
Kevin Wu

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University of Pittsburgh