Bioinformatics Student Newsletter
8 January 2016

1. Announcements & Reminders
   • Check out Shweta’s most recent blog post!
     You can also follow up with her later in the term to see how well she fulfills her resolutions.
     https://www.rackham.umich.edu/blog/my-grad-student-new-year-wishresolution-list
   • Ann Arbor life: Restaurant Week is approaching!
     This is your chance to try a new restaurant! Reservations recommended as it gets more popular each year.
     http://www.annarborrestaurantweek.com/
   • Need permission to register for a class in another unit? Here’s what you need to know:
     Contact the instructor if you need permission for a class. They will contact the office staff in their unit to
     coordinate permission. If classes are cross-listed, only one unit is able to grant permission — just ask who to
     contact to obtain permission.
   • Applying for a fellowship? Some tips:
     F31 grant:
     If applying for an F31, there is a UM review process before submitting. Have your application complete 10
     working days prior to the deadline.
     Rackham grants and awards:
     Please note if the award is something you apply for directly, or if you must be nominated by the Program
     Directors. Any self-nominations for awards that are to come from the Program will be voided.

2. Workshops + Seminars
   • Cardiovascular Medicine Grand Rounds: 2 presentations
     The Intern Health Study: Insights into the Biology of Depression under Stress
     Presenter: Srijan Sen, Assoc. Prof., Psychiatry and MBNI
     and
     Research in the Future: the Cardiovascular Health Improvement Project
     Presenter: Cristen Willer, Asst. Prof., Internal Medicine, Human Genetics, and DCM&B
     Tues., Jan. 12
     7:30 a.m. - 8:30 a.m.
     Danto Auditorium (Rm. 2314), Frankel Cardiovascular Center

   • UM Center for Statistical Genetics
     New methods in genetics & genomics
     Presenter: Jay Shendure. Univ. of Washington, Genome Sciences
     Tues., Jan. 12
     4:00 p.m.
     Rm. 1755 SPH I Bldg.

Just because it’s interesting!
The best ideas can come anytime:
Let me know if you cook anything up!
• Bioinformatics Ph.D. Thesis Defense Seminar: High-throughput bioinformatics approaches to understand gene expression regulation in head and neck tumors
Presenter: Yanxiao Zhang, Ph.D. Candidate
Wednesday, January 13
10:00 a.m.
Earl Lewis Rm., Rackham Bldg.
Adviser: Maureen Sartor

• Bioinformatics Ph.D. Thesis Defense Seminar: Computational Framework for Data-Independent Acquisition Proteomics
Presenter: Chih-Chiang Tsou, Ph.D. Candidate
Friday, January 15
2:00 p.m.
Great Lakes South, Palmer Commons Bldg.
Adviser: Alexey Nesvizhskii

• U-M Center for the Discovery of New Medicines Drug Discovery Lecture Series
Molecular target identification in kidney disease across disciplines and continents
Presenter: Matthias Kretzler, Warner-Lambert/Parke-Davis Professor of Internal Medicine/Nephrology & Computational Medicine and Bioinformatics, U-M Medical School
Fri., Jan. 15
9:00 a.m.
Forum Hall, 4th Fl., Palmer Commons Bldg.

3. Fellowships, Grants, and Awards

4. Other Useful Information
• FirstMark Computer Science & Engineering Summer Internship Experience
Deadline: Jan. 15
Information and online application can be found here: http://firstmarkelite.com/

• Interested in singing? Join GradTONES?
GradTONES (Graduate Troupe Of Needlessly Educated Singers) is Rackham’s only cross-departmental, grad-student-only a cappella singing group on campus. If you are a grad student who is interested in meeting us and singing fun songs with other students from all across Michigan, please consider joining us for our upcoming mass meeting.
Monday, January 11th
6:00 p.m.
Mason Hall Room 3314.
Refreshments provided.

If you are interested in auditioning but unavailable to make it to the info meeting, or if you have any questions about the group, please email us at gradtones@umich.edu. For more information, and to find out about our free events and end-of-the-term concerts (even if you do not wish to audition), check out our website at www.gradtones.com, like us on Facebook at www.facebook.com/Gradtones, or simply send us an email.
• International Society for Evolution, Medicine, and Public Health Annual Meeting
The second annual meeting of the International Society for Evolution, Medicine and Public Health will take place from June 22-25, 2016 in Durham, North Carolina, thanks to host Charles Nunn and the Triangle Center for Evolutionary Medicine. Hundreds of scientists, students and health professionals will attend including six invited plenary speakers: Andrea Graham (Princeton University), Carl Zimmer (New York Times), Helen Ball (Durham University, UK), Joshua Schiffman (University of Utah), Marion Koopmans (Erasmus University) and Martin Blaser (New York University).
Full information about registration and abstract submission is at http://evolutionarymedicine.org/isemph2016/
Abstract submission and early registration deadline: Jan. 30, 2016

• 8th Annual MaxQuant Summer School
Applications now accepted for the the 8th Annual MaxQuant Summer School.
July 4 - 8, 2016
Oxford University, UK
The Summer School will provide hands-on training in computational analysis of proteomics data generated by high-resolution mass spectrometry. This powerful technology is increasingly applied to systems-wide investigations of different aspects of cell biology. The practical part will enable participants to perform sophisticated quantitative data analysis in their own future research using the publicly available MaxQuant software (Cox, J. and Mann, M. (2008). Information and online application links can be found here: http://mqsummerschool.biochem.mpg.de/summerschool2016/welcome.html.

5. Job Opportunities
• Master's student wanted: bioinformatics analyses on mRNA-seq and ChIP-seq data
The Mueller Lab, in the Department of Human Genetics, is seeking a Master’s Student to perform bioinformatics analyses on mRNA-seq and ChIP-seq data. The student should have some experience analyzing next-generation sequencing data, using programs such as Bowtie (Tophat), Cufflinks, DEseq, and R. The student will examine expression profiles of genes involved in testis and ovary development via differential expression across a developmental time course and from specific sorted cell populations. The student will have the opportunity to work closely with Dr. Mueller throughout the analyses and be a member of a lab that balances both wet and dry lab experiments. The position will be for the winter semester for credit or hourly pay and extension into the following academic year.
Please contact Dr. Mueller (jacobmu@umich.edu) to apply.

• Assistant Professor: Oregon Health & Science Univ., Dept. of Medical Informatics & Clinical Epidemiology
The Department of Medical Informatics and Clinical Epidemiology (DMICE) of Oregon Health & Science University is recruiting for a junior faculty (Assistant Professor) in biomedical informatics. In addition to having a diverse and well-funded research portfolio, DMICE has been a pioneer in informatics education, including graduate programs, online education, a new clinical informatics subspecialty fellowship for physicians, and a partnership with the American Medical Informatics Association to develop the 10x10 (“ten by ten”) course that has trained over 2000 individuals. DMICE also houses the Evidence-based Practice Center and the Informatics Discovery Lab, both of which are world-class initiatives intended to advance putting knowledge into practice. Faculty carry out research projects in areas such as informatics for healthcare reform, population health, ontology development, machine learning, information retrieval, and sociotechnical understanding of systems.
Complete details and application information can be found here: https://goo.gl/WMk0m3
Questions about the position should be directed to Alicia Nam, nama@ohsu.edu
• **Biostatistician: Center for Genes, Environment and Health at National Jewish Health**
Master’s degree in biostatistics or a related field required.
There are two primary studies involving tuberculosis (genomics of the bug and human response) and pulmonary fibrosis (resequencing of GWAS regions with transcriptome and methylation studies) that will fund the position, with other projects a possibility over time. The main responsibilities of the position will be performing data analyses related to these studies as well as interacting with other biostatisticians and computer scientists to build up analysis pipelines.

National Jewish Health is a non-profit clinical care and research center and is consistently ranked the #1 or #2 respiratory hospital in the nation. The Center has 8 faculty involved in genomics, 5 on the wet lab side and 3 on the analysis side. We have several students and/or post-doctoral fellows in each faculty group and mostly study respiratory and immune-related diseases, although other areas are represented.

Complete details and application process can be found here: [http://jobs.nationaljewish.org/biostatistician/job/5756645](http://jobs.nationaljewish.org/biostatistician/job/5756645).

• **Staff positions at Genomics plc**
Information about the company and contact details can be found at [www.genomicsplc.com](http://www.genomicsplc.com). The are currently seeking individuals working in statistical genetics and bioinformatics. Listings can also be found here: [http://www.nature.com/naturejobs/science/jobs/558183-statistical-geneticists-and-bioinformaticians](http://www.nature.com/naturejobs/science/jobs/558183-statistical-geneticists-and-bioinformaticians) and [http://www.nature.com/naturejobs/science/jobs/558185-leadership-roles-in-statistical-genetics-and-bioinformatics](http://www.nature.com/naturejobs/science/jobs/558185-leadership-roles-in-statistical-genetics-and-bioinformatics)