

Leslie Myint

PhD candidate in Biostatistics

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Education

- Johns Hopkins Bloomberg School of Public Health** September 2013 – present
Ph.D. candidate – Biostatistics
Expected graduation: May 2018
- Johns Hopkins University** May 2013
Bachelor of Science
Majors: Biomedical Engineering, Applied Mathematics and Statistics
Minor: Computer Science

Research Experience

- Statistical Methods for High-Throughput Biology** June 2014 – present
JHSPH – Advisor: Dr. Kasper Hansen
- Pre-processing methods for mass spectrometry data for metabolomics applications
 - Statistical methods for analyzing massively parallel reporter assays
- Evidence-Based Data Analysis** July 2015 – present
JHSPH – Advisor: Dr. Jeffrey Leek
- Conducted and analyzed randomized trials on the Coursera platform to understand data analyst behavior
 - Developed a platform to conduct arbitrary data analysis experiments to understand the cognitive aspects of data analysis and reproducible research
- Computational Biology Laboratory** September 2011 – May 2013
JHU – Advisor: Dr. Feilim Mac Gabhann
- Studied peripheral arterial disease using computational models of VEGF distribution in mice and humans
- Internship: Institute of Genetic Medicine** May – October 2012
JHU – Advisor: Dr. Steven Salzberg
- Performed an in-depth comparison of two widely used sequence alignment programs: Bowtie2 and BWA
- Biomedical Engineering Design Team** September 2011 – October 2012
JHU – Advisor: Dr. Hien Nguyen
- Worked with a team of 8 students to develop a surgical device to improve fascia closure
 - Selected Honors: 1st place – International ASME Engineering Innovation Showcase, National Institute of Biomedical Imaging and Bioengineering DEBUT Challenge, Collegiate Inventors Competition
- REU: Modeling and Simulation in Systems Biology** May – August 2011
Virginia Bioinformatics Institute – Advisors: Dr. Shernita Lee, Dr. Reinhard Laubenbacher
- Worked with two other students to develop a computational model of iron metabolism in lung epithelial cells exposed to fungus

Summer Undergraduate Research Fellowship

May – July 2010

Fox Chase Cancer Center – Advisor: Dr. Warren Kruger

- Studied *Schizosaccharomyces pombe* yeast genetics

■ ■ ■ Publications

2017 **Myint, Leslie**, Andre Kleensang, Liang Zhao, Thomas Hartung, and Kasper D. Hansen. 2017. "Joint Bounding of Peaks Across Samples Improves Differential Analysis in Mass Spectrometry-Based Metabolomics." *Analytical Chemistry* 89 (6): 3517–23. doi:10.1021/acs.analchem.6b04719.

Kang, Joon Y., Amin H. Rabiei, **Leslie Myint**, and Maromi Nei. "Equivocal Significance of Post-Ictal Generalized EEG Suppression as a Marker of SUDEP Risk." *Seizure: The Journal of the British Epilepsy Association*. doi:10.1016/j.seizure.2017.03.017.

■ ■ ■ Presentations

2017 **A Method for Joint Processing of Mass Spectrometry-Based Metabolomics Data for Improved Differential Analysis**

Eastern North American Region (ENAR), Washington D.C. Poster

■ ■ ■ Software

yamss: Tools for the analysis of high-throughput metabolomics data. An R package released through the Bioconductor project.

<https://www.bioconductor.org/packages/yamss>

■ ■ ■ Teaching Experience

(U): undergraduate class, (G): graduate class

Gordis Teaching Fellow, JHSPH

January – May 2017

- This is a school-wide award which comes with funds to design and teach an undergraduate class. I developed and taught an undergraduate course called Statistical Thinking for Informed Decision Making, a news article-motivated introduction to major biostatistical areas.

Teaching Assistant, JHSPH

Summer Institute: Statistical Reasoning in Public Health (G)

June – July 2014

Public Health Biostatistics (U)

September – December 2014-2016

Statistical Methods in Public Health (G)

January – May 2015, January – March 2016

Data Analysis Workshop (G)

June 2015, January 2016

Statistics for Genomics (G)

March – May 2016

Tutor, JHSPH

Statistical Methods in Public Health (G)

January – May 2015

Center for Talented Youth

June – August 2016

- Mentor for a high school CTY Cogito Research Award Recipient

Teaching Assistant, JHU

Introduction to Java (U)

January – May 2013

■■■ Awards

Helen Abbey Award, JHSPH – Excellence in teaching. May 2017
<http://www.jhsph.edu/departments/biostatistics/about-us/honors-and-awards/index.html#helen-abbey>

■■■ Other Experience

Johns Hopkins Biostatistics Center July 2016 – present
JHSPH – Advisor: Carol Thompson, MS

- Consulting work for multiple groups within the Johns Hopkins Medical Institution

Siemens Competition September/December 2016

- Served as a Stage I and finalist judge to triage entries in Computer Science, Mathematics, Bioinformatics, Cell/Cancer Biology, and Genetics

Technology Fellowship May – August 2012
JHU – Advisor: Dr. Eileen Haase

- Created instructional videos for a sophomore biomedical engineering course that covers molecular and cellular biology

■■■ Technical Skills

Programming languages:

R, Java, MATLAB, Stata, Python

Application development:

Shiny, HTML, CSS, Javascript, jQuery, d3.js

Other:

Git, Reproducible research using RMarkdown, Adobe Photoshop