# Leslie Myint

e: lmyint@macalester.edu
w: lmyint.github.io

## Education

**PhD in Biostatistics**                                                May 2018

Johns Hopkins Bloomberg School of Public Health

Dissertation: Evidence-Based Methods in Studies of Biology and Data Analysis

Advisor: Kasper Daniel Hansen

**BS in Biomedical Engineering**                              May 2013

Johns Hopkins University

Secondary major: Applied Mathematics and Statistics

Minor: Computer Science

## Work Experience

**Assistant Professor**                                  August 2018 - present

Department of Mathematics, Statistics, and Computer Science

Macalester College, Saint Paul, MN

**Johns Hopkins Biostatistics Center**          July 2016 - August 2017

Student statistical consultant

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

Advisor: Carol Thompson, MS

**Siemens Competition**                                            2016 - 2017

Stage I, II, and finalist judge

Categories: Computer Science, Mathematics, Bioinformatics, Cell/Cancer Biology, and Genetics

## Publications

**Published**

4. **Myint L.**, Leek JT., Jager LR. 2018. Explanation of observational data engenders a causal belief about smoking and cancer. PeerJ 6:e5597. DOI: 10.7717/peerj.5597.
   - **Press:**
     Preprint was featured in the [February 2018 issue](February 2018 issue) of Significance Magazine.
3. Monroe, Anne K., **Leslie Myint**, Richard Rutstein, Judith Aberg, Stephen Boswell, Allison Agwu, Kelly Gebo, Richard Moore, and HIV Research Network. 2018. "Factors Associated with Gaps in Medicaid Enrollment among People with HIV and the Effect of Gaps on Viral Suppression." Journal of Acquired Immune Deficiency Syndromes, April. https://doi.org/10.1097/QAI.0000000000001702.
2. Kang, Joon Y., Amin H. Rabiei, **Leslie Myint**, and Maromi Nei. 2017. "Equivocal Significance of Post-Ictal Generalized EEG Suppression as a Marker of SUDEP Risk." Seizure: The Journal of the British Epilepsy Association 48 (May): 28–32. https://doi.org/10.1016/j.seizure.2017.03.017.

1. **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. https://doi.org/10.1021/acs.analchem.6b04719.

**Submitted**

2. **Leslie Myint**, Ruihua Wang, Leandros Boukas, Kasper D. Hansen, Loyal A. Goff, Dimitrios Avramopoulos. "Testing the Regulatory Consequences of 1,049 Schizophrenia Associated Variants With a Massively Parallel Reporter Assay." Undergoing revisions at PLoS ONE. (bioRxiv doi: 10.1101/447557).

1. **Myint, Leslie**, Dimitrios G. Avramopoulos, Loyal A. Goff, and Kasper Hansen. 2017. "Linear Models Enable Powerful Differential Activity Analysis in Massively Parallel Reporter Assays." Undergoing revisions at BMC Genomics. (bioRxiv doi:10.1101/196394).

**In Preparation**

1. **Leslie Myint**, Aboozar Hadavand, Leah Jager, Jeffrey Leek. "Comparison of plotting system outputs in beginner analysts."

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## Presentations

**Magical Web Scraping with rvest**
Invited Talk: Baltimore R Ladies Group ([slides](#))
May 2018

**Joint Preprocessing of Samples Improves Power in Differential Analysis for Mass Spectrometry-Based Metabolomics**
Invited Talk: JHU Biophysics
December 2017

**Shiny Applications for Teaching and Dungeons and Dragons**
Invited Talk: Baltimore UseR Group ([slides](#))
September 2017

**A Method for Joint Processing of Mass Spectrometry-Based Metabolomics Data for Improved Differential Analysis**
Poster: ENAR, Washington D.C.
March 2017

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## 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

**mpra**: Tools for the analysis of data from massively parallel reporter assays. An R package released through the Bioconductor project.
https://www.bioconductor.org/packages/mpra

## Teaching

**Macalester College**
*Instructor*
- MATH 155: Introduction to Statistical Modeling (F18)
- MATH 253: Statistical Computing and Machine Learning (S19)

**Chromebook Data Science Specialization**
*Content developer*
A massive open online course on the Leanpub platform for providing a highly accessible data science education. Content developer for the following courses:

- [Organizing Data Science Projects](#)
- [Version Control](#)
- [Introduction to R](#)
- [Data Tidying](#)

**Johns Hopkins Bloomberg School of Public Health**
*Instructor*
- Statistical Thinking for Informed Decision Making (2 semesters)
  I developed this course as part of the [Gordis Teaching Fellowship](#), a school-wide award that provides funds to design and teach an undergraduate class. A news article-motivated introduction to major biostatistical areas, including causal inference, survey sampling, and survival analysis.

*Teaching Assistant*
- Public Health Biostatistics (3 semesters)
- Introduction to R for Public Health Researchers (1 course)
- Statistical Methods in Public Health (3 quarters)
- Data Analysis Workshop (2 courses)
- Statistics for Genomics (1 quarter)
- Statistics for Laboratory Scientists (2 quarters)
- Summer Institute: Statistical Reasoning in Public Health (2 courses)

*Tutor*
- Statistical Methods in Public Health (2 quarters)
- Mentor for Center for Talented Youth Cogito Research Award Recipient (3 months)

**Johns Hopkins University**
*Teaching Assistant*
- Introduction to Java (1 semester)

## Awards

**Helen Abbey Award**                                                May 2017
Johns Hopkins Bloomberg School of Public Health
Excellence in teaching ([website](#))

## Service

- 2018: Referee - [BiOverlay](#)
- 2018: Referee - American Journal of Epidemiology
- 2017: Referee - Observational Studies