
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

7. **Myint L**, Hadavand A, Jager L, Leek J. 2019. Comparison of Beginning R Students' Perceptions of Peer-Made Plots Created in Two Plotting Systems: A Randomized Experiment. *Journal of Statistics Education* 28:98–108. DOI: 10.1080/10691898.2019.1695554.
6. **Myint L**, Wang R, Boukas L, Hansen KD, Goff LA, Avramopoulos D. 2020b. A screen of 1,049 schizophrenia and 30 Alzheimer's-associated variants for regulatory potential. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics* 183:61–73. DOI: 10.1002/ajmg.b.32761.
5. **Myint L**, Avramopoulos DG, Goff LA, Hansen KD. 2019. Linear models enable powerful differential activity analysis in massively parallel reporter assays. *BMC Genomics* 20:209. DOI: 10.1186/s12864-019-5556-x.

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](#) of Significance Magazine.
 3. Monroe AK, **Myint L**, M Rutstein R, Aberg J, L Boswell S, L Agwu A, A Gebo K, D Moore R, 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* 78:413–420. DOI: 10.1097/QAI.0000000000001702.
 2. Kang JY, Rabiei AH, **Myint L**, Nei M. 2017. Equivocal significance of post-ictal generalized EEG suppression as a marker of SUDEP risk. *Seizure: The Journal of the British Epilepsy Association* 48:28–32. DOI: 10.1016/j.seizure.2017.03.017.
 1. **Myint L**, Kleensang A, Zhao L, Hartung T, Hansen KD. 2017. Joint Bounding of Peaks Across Samples Improves Differential Analysis in Mass Spectrometry-Based Metabolomics. *Analytical Chemistry* 89:3517–3523. DOI: 10.1021/acs.analchem.6b04719.
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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>

mpira: Tools for the analysis of data from massively parallel reporter assays. An R package released through the Bioconductor project.

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

Grant Participation

Metabolomics of Uremic Symptoms in Dialysis Patients

NIH R01 subaward contract

Dates: 6/1/2019 - 5/31/2021

Role: statistical analyst

Presentations

Graphs Galore! Representing Knowledge in the Sciences and Humanities

Invited Talk: Carleton College ([slides](#))

October 2019

Talk: Macalester College ([slides](#))

November 2019

Statistical methods for querying the regulatory role of DNA

Invited Talk: Creighton University Math Colloquium ([slides](#))

March 2019

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

Teaching

Macalester College

Instructor

- STAT 125: Epidemiology (F19)
- STAT 155: Introduction to Statistical Modeling (F18, S20)
- STAT 253: Statistical Machine Learning (S19)
- STAT 394: Causal Inference (S20)

Cloud-Based 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](#))

Professional Service

Memberships

- American Statistical Association
- Eastern North American Region of the International Biometric Society

Conferences

- 2020: Organizer and Chair for an invited session for the [Education Track](#) at the Symposium on Data Science and Statistics

Reviewer

- 2020: [Open Case Studies](#)
- 2020: Journal of Statistics Education
- 2019: Nature Human Behaviour
- 2019: Technology Innovations in Statistics Education
- 2019: Journal of Statistics Education
- 2018: [BiOverlay](#)
- 2018: American Journal of Epidemiology
- 2017: Observational Studies