

NATHAN HALL

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EDUCATION

Harvard T.H. Chan School of Public Health
M.S. in biostatistics, GPA: 3.81/4.00

Boston, MA
December 2018

University of Massachusetts, Amherst

B.S. in public health with concentration biostatistical studies and minor in mathematics, GPA: 3.81/4.00
Cum laude, Dean's List Honors 6/8 semesters

Amherst, MA
May 2017

RESEARCH EXPERIENCE

Boston University School of Public Health, Department of Biostatistics

Summer Institute for Training in Biostatistics scholarship recipient

Boston, MA
June 2016 – July 2016

- Engaged in program modules in biostatistics, epidemiology, clinical trials, statistical genetics, and training in data analysis.
- Analyzed multiple data sets, primarily consisting of data collected from the Framingham Heart and Jackson Heart Studies.
- Conducted analyses of variance, chi-square tests, and multiple linear and logistic regression analyses.

WORK EXPERIENCE

Siemens Healthineers

Biostatistician I

Norwood, MA
January 2019 – Present

- Conduct statistical studies to generate data and insights used to innovate, plan and support improved healthcare.
- Prepare analysis plans and advanced code via SAS and R statistical programming software to identify, analyze, and interpret trends and patterns in complex data sets.
- Advise and assist clients in determining the appropriate analytical methodology to meet their needs and objectives.
- Analyze clinical trial data and help develop the statistical portion of FDA submissions.

Massachusetts General Hospital (MGH) Biostatistics Center

Biostatistics Intern

Boston, MA
May 2018 – December 2018

Supervisor: David Schoenfeld, Ph.D.

- Collaborated with Dauten Family Center for Bipolar Treatment Innovation investigators to determine appropriate statistical methods for numerous projects and studies, including the MoodNetwork (MN) project, Cross Patient Powered Research Network comparative effectiveness project, and the Healthy Hearts Healthy Minds study.
- Developed and executed advanced statistical programs via both SAS and R statistical programming software to analyze data and prepare data displays/visualizations for each of the aforementioned projects and studies.
- Theorized novel statistical methodologies and analysis plans using real-world data for the development of a masters-level thesis at the Harvard T.H. Chan School of Public Health.
 - The thesis, titled "*Using Random Forests to Multiply Impute Data in an Online Patient-Centered Support Platform*", focuses on utilizing the machine learning technique of random forests and multiple imputation to predict missing values resulting from real-world data from the MN in order to perform any type of subsequent analysis desired.

Concord Biomedical Sciences and Emerging Technologies, Inc.

Data Analyst I

Lexington, MA
May – August; December – January, 2017 – 2018

- Created and developed comprehensive statistical summary reports and novel programs via R programming software.
- Visualized pertinent study-specific data via graphical and tabular methods for presentation within reports produced for the sponsors and upper management.

SKILLS

- Programming languages: R, SAS, SQL, HTML, CSS, Tableau, STATA
- Advanced data visualization capabilities, including interactive R Shiny web applications.
- Statistical and data science techniques, such as: regression modeling, data science, machine learning (random forests, gradient boosting machines, neural networks, etc.), clinical trials, statistical methodology, and multiple imputation.