

# Hyejung Maybell Lee

Salt Lake city, UT (801)462-6074 [hyejung.lee@utah.edu](mailto:hyejung.lee@utah.edu)

## EDUCATION

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**Doctor of Philosophy, Population Health Sciences emphasis in Biostatistics** GPA: 4.00 April, 2024  
*University of Utah, Salt Lake City, UT, USA*

- Courses: Machine Learning, Causal Inference(theory and applied), Advanced Statistical Inference, Epidemiologic Methods, Clinical Trials, Multilevel Modeling, Survival Analysis, Research Ethics

**Master of Science, Statistics** GPA: 3.82 August, 2020  
*Brigham Young University, Provo, UT, USA*

- Courses: Generalized Linear Models, Applications in biostatistics, Bayesian Methods, Multivariate Statistical Methods, Statistical Computation, Probability Theory and Mathematical Statistics 1, Linear Models, Statistical Learning & Data Mining, Mixed Model Methods, Probability Theory and Mathematical Statistics 2

**Bachelor of Science, Pure Mathematics, Minor: Applied Mathematics** GPA: 3.69 November, 2014  
*University of Calgary, Calgary, AB, Canada*

- Graduate with Distinction on a competitive GPA basis
- Courses: Survival Analysis, Introduction to Biostatistics, Applied Regression Analysis, Introduction to Stochastic Process, Introduction to Biochemistry, Calculus, Linear Algebra, Analysis, Principles of Genetics, Organic Chemistry

## PUBLICATIONS/PRESENTATIONS

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**Journal of the American Society of Echocardiography** June 2021

- Supplement after the June Scientific Sessions
- Inter and intra-rater reliability of fetal heart measures

**19th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Virtual Symposium Summer Research** April 2021

- Association Between Major Depressive Disorder and Personal Factors Among Utah Lawyers – peer reviewed poster presentation

## WORK EXPERIENCE

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**Research Assistant** 2021-Currnet

*University of Utah, Study Design & Biostatistics Center in SLC, UT. Lead statistician for 2 collaboration projects and assisted 1 collaboration project.*

- Predicted of adverse events and venous thromboembolism among the patients with T cell acute leukemia using logistic regression
- Investigated inter and intra-rater reliability of fetal heart measures to establish standardized Z-score for scales
- Applied multivariable Cox proportional hazards regression models with cubic splines to data from a recently completed international multi-center randomized clinical trial to relate atrial arrhythmia recurrence to the amount of coverage of fibrosis obtained using MRI-guided ablation

**Research Assistant** 2021-Currnet

*University of Utah, Huntsman Cancer Institute – Biostatistics Shared Resources in SLC, UT. Lead statistician for 3 collaboration projects.*

- Explore consistency in meal timing from day to day in individuals using intra-cluster correlation coefficient
- Investigate association between overall survival, hospitalization free survival, and patient reported outcomes of late-stage lung cancer patients and fat and muscles
- Determine breast cancer patient's psychological factors that affect patient choice of surgery (lumpectomy vs mastectomy)

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## Research Assistant

Fall 2020 – Spring 2021

*Rocky Mountain Center for Occupational and Environmental Health in SLC, UT. Lead statistician for a state-funded project.*

- Analyze association between major depressive disorder and work-industry and individual behavioral factors

## Research Assistant

2018 - Summer 2020

*Dr. Tolley, Department of Statistics, Brigham Young University, Provo, UT. Master's thesis.*

- Develop statistical methods of deconvolving target compounds that have overlapping elution patterns on mass spectrometry by using the known ratios of absorbances at the two light way lengths
- Use of skewed normal distribution for functional data analysis – modeling chemical compounds from mass spectrometry using skewed normal distribution
- Developing user-interactive function in R

## Research Assistant

2018

*Department of Statistics, Brigham Young University, Provo, UT. (write down course name)*

- Grade homework and provide feedback for improvement
- Explain concepts in multiple different ways using basic vocabulary

## TEACHING EXPERIENCE

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### Teaching Assistant

2018

*Methods and Mechanics of Secondary Data Analysis, Department of Population Health Sciences, University of Utah, SLC, UT.*

- Lead applied exercises in class
- Grade homework and provide feedback for improvement

### Teaching Assistant

2018

*Probability and Inference I, Department of Statistics, Brigham Young University, Provo, UT.*

- Grade homework and provide feedback for improvement
- Explain concepts in multiple different ways using lay language

### Private Mathematics Tutor

2010-2015

*Self-employed, AB, Canada*

- Taught private lessons in beginning math to 10-15 years old
- Explain mathematical concepts using objects and writing

## LEADERSHIP EXPERIENCE

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### Korean Young Single Adult(KYSA) Conference Co-Chair

Summer 2019

- Volunteered as a co-chair for the Korean Young Single Adult Conference
- Organize bi/weekly meeting for the KYSA committee members to plan the conference schedule
- Encourage the committee members to do their tasks on time
- Coordinate rides for the participants who do not have transportation
- Keep track of spending for the conference, notify and help the committee members for reimbursements
- Overlook the conference, for the safety of the participants

## SKILLS

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- Bayesian model fitting using RStan
- Multivariate statistical modeling
- Advanced R Programming
- Monte Carlo and Bootstrap simulation in R

## **SCHOLARSHIPS/AWARDS**

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- 25<sup>th</sup> Summer Institute in Statistical Genetics (SISG) by University of Washington, School of Public Health, Department of Biostatistics (2020)
- Dean's list (2011,2013,2014)
- Jason Lang Scholarship (2011, 2013)
- Education Matters Scholarship (2010)
- Alexander Rutherford Scholarship (2010)