

## CURRICULUM VITAE

### **Emily Kate Roberts**

University of Iowa College of Public Health  
Department of Biostatistics

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## **II. EDUCATIONAL AND PROFESSIONAL HISTORY**

### **A. Education**

<u>Institution</u>	<u>Field of Study</u>	<u>Degree Obtained</u>	<u>Degree Date</u>
Coe College Cedar Rapids, Iowa Summa Cum Laude Honors thesis “Roommate Matching by Design” Advisor: Dr. Jonathan White	Mathematics, Psychology	BA	2016
University of Michigan Ann Arbor, Michigan	Biostatistics	MS	2018
University of Michigan Ann Arbor, Michigan Dissertation “Causal Inference Methods and Intermediate Endpoints in Randomized Clinical Trials” Advisors: Drs. Jeremy Taylor and Michael Elliott	Biostatistics	PhD	2022

### **B. Academic Positions**

<u>Title</u>	<u>Dates of Service</u>	<u>Location</u>
Assistant Professor	2022-Present	Department of Biostatistics University of Iowa, College of Public Health, Iowa City, Iowa

### Previous Employment and Experiences

*Pre-doctoral Fellow and Graduate Student Research Assistant*  
University of Michigan, Ann Arbor, Michigan 2016-2022

*National Institutes of Health Cancer Training in Biostatistics Grant Trainee*  
University of Michigan, Ann Arbor, Michigan 2016-2017

*Summer Trainee Harvard Summer Program in Biostatistics and Computational Biology, Boston, Massachusetts 2015*

*Summer Trainee Columbia Summer Institute in Biostatistics*  
New York City, New York, 2014

*Summer Trainee Coe College Research in Mathematics Program*  
Cedar Rapids, Iowa 2013

### **C. Honors, Awards, Recognitions, Outstanding Achievements**

Phi Beta Kappa, Mortar Board, Psi Chi, Alpha Lambda Delta, Phi Kappa Phi  
Dean's List Coe College 2012-2016  
Coe College Hunt Award in Mathematics 2015  
Barry Goldwater Honorable Mention 2015  
R.J. McElroy Fellowship 2016  
University of Michigan School of Public Health Regents' Fellowship Award 2016  
National Science Foundation Graduate Research Fellowship Program 2016-2021  
Rackham Graduate Travel Grant 2018, 2019, 2021, 2022  
Michigan Institute of Data Science Travel Grant 2019  
SAMSI Travel Grant 2019  
School of Public Health Unsung Hero Award 2020  
Telomere Network Analysis Award and Travel Grant 2020, 2021  
University of Michigan Rackham Predoctoral Fellowship 2021-2022  
University of Michigan Department of Biostatistics Excellence in Research  
Honorable Mention 2021  
Women in Statistics and Data Science 2022 Travel Grant  
American Statistical Association Lifetime Data Science 2023 Paper Award  
Junior Faculty Opportunity Award, University of Iowa 2023  
New Faculty Research Award, University of Iowa 2023  
ASA Outstanding Chapter Service Award, ASA 2024  
Collaboratory Research Award, University of Iowa 2024  
Carol Gleich Travel Award, University of Iowa 2025  
College of Public Health Teaching Award, University of Iowa 2025  
Delta Omega Honorary Society in Public Health, University of Iowa 2025

## **II. TEACHING**

### **A. Experiences**

University of Iowa Courses, Primary Instruction

<u>Course</u>	<u>Semester, Year</u>	<u>Semester Hours</u>	<u># Students</u>
BIOS 6550	Spring 2023	3	20

## Causal Inference

BIOS 6310 Introductory Longitudinal Data Analysis	Fall 2023	3	34
BIOS 6550 Causal Inference	Spring 2024	3	20
BIOS 6310 Introductory Longitudinal Data Analysis	Fall 2024	3	27
BIOS 6550 Causal Inference	Spring 2025	3	15
BIOS 6310 Introductory Longitudinal Data Analysis	Fall 2025	3	36
BIOS 6550 Causal Inference	Spring 2026	3	30

## Other Universities and Roles

University of Michigan Biostatistics Tutor for Stochastic Processes 2019  
Girls Who Code Data Science Summer Experience Facilitator/Teacher  
University of Michigan, Ann Arbor chapter 2018-2019  
Mathematics Help, Coe College Mathematics Department 2015-2016  
SAS Teaching Assistant, Coe College Psychology Department 2015-2016  
Kids on Course Elementary Math Tutor, Harrison Elementary 2014-2016

## III. SCHOLARSHIP/PROFESSIONAL PRODUCTIVITY

### A. Publications or creative works – Peer Reviewed Manuscripts

[1] **Roberts, E.** (2015). Mission of Hope Action Research: Analyzing and Understanding Local Homeless. *Undergraduate Journal of Service Learning and Community-Based Research*.

[2] Muller, K.E., **Roberts, E.**, Zhao, L., & Jorns, J. M. (2017). Isolated Atypical Lobular Hyperplasia Diagnosed on Breast Biopsy: Low Upgrade Rate on Subsequent Excision with Long-Term Follow-up. *Archives of pathology & laboratory medicine*.

[3] East, E.G., Gast, K.M., Kuzon, W.M., **Roberts, E.**, Zhao, L., & Jorns, J.M. (2017). Clinicopathologic Findings in Female-to-Male Gender-Affirming Breast Surgery. *Histopathology*.

[4] Kahn, J.M., Cole, P.D., Blonquist, T. M., **et al.** (2018). An investigation of toxicities and survival in Hispanic children and adolescents with ALL: Results from the Dana-Farber Cancer Institute ALL Consortium protocol 05-001. *Pediatric blood & cancer*.

[5] East, E., Gabbeart, M., **Roberts, E.**, Zhao, L. & Jorns, J. (2018). A Rapid Triage Protocol to Optimize Cold Ischemic Time for Breast Resection Specimens. *Annals of Diagnostic Pathology*.

[6] Geer, M.\*., **Roberts, E.\***, ... [17 authors] Phillips T. (2019). Multicentre retrospective study of intravascular large B-cell lymphoma treated at academic institutions within the United States. *British journal of haematology*. \*equal contribution

[7] East, E., **Roberts, E.**, Zhao, L. & Jorns, J. (2019). Repeat Biomarker Status in Breast Resection Specimens with Controlled Cold Ischemic Time. *American Journal of Clinical Pathology*.

[8] Siontis, B., McHugh, J., **Roberts, E.**, Zhao, L., Thomas, D., Baker, L., Owen, D., Biermann, J.S., Schuetze, S.M., Chugh, R. (2019). Radiation-Associated Versus Sporadic Osteosarcoma: A Single-Institution Experience. *Frontiers in Oncology*.

[9] Hanks, J.E., Kovatch, K.J., Ali, S.A., **Roberts, E.**, ... [6 authors] McLean, S.A. (2020). Sentinel Lymph Node Biopsy in Head & Neck Melanoma: Long-Term Outcomes, Prognostic Value, & Accuracy. *Otolaryngology–Head and Neck Surgery*.

[10] Needham, B.L., Salerno, S., **Roberts, E.**, Boss, J., Allgood, K. L., & Mukherjee, B. (2020). Do Black/White Differences in Telomere Length Depend on Socioeconomic Status? *Biodemography and Social Biology*.

[11] **Roberts, E.** & Zhao, L. (2021) A Bayesian Mixture Model to Estimate Changepoints in Ordinal Predictors. *International Journal of Biostatistics*.

[12] Sun, Y., Patel, A., SantaLucia, J., **Roberts, E.**, Zhao, L., Kaye, K., Rao, K., & Bachman, M.A. (2021). Measurement of *Klebsiella* Intestinal Colonization Density to Assess Infection Risk. *mSphere*.

[13] **Roberts, E.**, Elliott, M.R., & Taylor, J.M.G. (2021). Incorporating Baseline Covariates to Validate Surrogate Endpoints with a Constant Biomarker under Control Arm. *Statistics in Medicine*.

[14] Vornhagen, J., **Roberts, E.K.**, ... [13 authors] Bachman, M.A. (2022) Comparative Genomics Reveals Plasmid-Encoded Genes Associated with *Klebsiella* Infection in Colonized Patients. *Nature Communications*.

[15] **Roberts, E.K.**, Elliott, M.R., & Taylor, J.M.G. (2022). Solutions for Surrogacy Validation with Longitudinal Outcomes for a Gene Therapy. *Biometrics*.

[16] **Roberts, E.K.**, Gu, T., Mukherjee, B., Fristche, L. (2022). Estimating COVID-19 Vaccination Effectiveness Using Electronic Health Records of an Academic Medical Center in Michigan. *American Journal of Preventative Medicine (FOCUS)*.

[17] **Roberts, E.K.**, Boss, J., Mukherjee, B., Salerno, S., Zota, A., & Needham, B. L. (2022). Persistent organic pollutant exposure contributes to Black/White differences in leukocyte telomere length in the National Health and Nutrition Examination Survey. *Scientific Reports*.

[18] **Roberts, E. K.**, Elliott, M. R., & Taylor, J. M. (2023). Surrogacy Validation for Time-to-Event Outcomes with Illness-Death Frailty Models. *Biometrical Journal*.

[19] **Roberts, E.K.**, Luo, L., Mondul, A. M., Banerjee, M., Veenstra, C. M., Mariotto, A. B., Schipper, M.J., He, K., Taylor, J.M.G., Brouwer, A. (2024). Time-Varying Associations of Patient Characteristics with Cancer Survival: An Analysis of SEER Data Across 14 Cancer Sites, 2004-2017. *Cancer Causes and Control*.

[20] Tanaka, T., **Roberts, E.K.**,\* Platt, J.\* (2024). Revisiting the Effect of Acute-on-Chronic Liver Failure on Post-Liver Transplant Survival. *Hepatology Communications*.

[21] Cherwin, C., Hoang, J., **Roberts, E.K.**, Mangalam, A. (2025). Gut Microbiome and Symptom Burden in Obese and Non-Obese Women Receiving Chemotherapy for Breast Cancer. *Biological Research for Nursing*.

[22] Yu-Hsiang, W., McMurray, B., Hoth, K.F., Caraher, K., Oleson, J., **Roberts, E.**, Dunn, C. (2025). Factors Associated with Auditory Lifestyle of Adult Cochlear Implant Users. *Journal of Speech, Language, and Hearing Research*.

[23] Abrahamowicz, M., Beauchamp, M.E., **Roberts, E.K.**, Taylor, J.M.G. (2025). Revisiting the Hazards of Hazard Ratios Through Simulations and Case Studies. *European Journal of Epidemiology*.

[24] Tanaka, T., **Roberts, E.K.**, Platt, J., Axelrod, D. (2025). Longitudinal Assessment of Performance Status in U.S. Liver Transplantation: National Trends and Survival Implications. *Transplantation Direct*.

[25] Williams, P.A., **Roberts, E.K.**, Nguyen, Q.A., Rahmouni, K. (2025). Identifying Unimodal Finite Mixture Models in Data Sets Using Distribution Shifting – A Novel Approach. *Results in Engineering*.

[26] Smith, M.J., **Roberts, E.K.**, Charlton, M.E., Oleson, J.J. (2025). Incorporating Small-area Estimation into Mediation Analyses with Areal Datasets. *Spatial and Spatio-temporal Epidemiology*.

[27] Sursely, A.M., **Roberts, E.K.**, Nash, S.H., Sadler, A.G., Torner, J.C., Platt, J.M. (2025). Crisis Circumstances in US Suicide Deaths: Latent Class Analysis of National Violent Death Reporting System Data from 2013-2021. *American Journal of Preventative Medicine*.

[28] Sursely, A.M., Nash, S.H., Sadler, A. G., **Roberts, E.K.**, Torner, J.C., Platt, J.M. (2025). Exploring Contextual Details in Suicide Precipitating Circumstances: A Qualitative Content Analysis of National Violent Death Reporting System (NVDRS) Narrative Reports. *Journal of Psychiatry and Brain Science*.

[29] Salerno, S., **Roberts, E.K.**, Needham, B., McCormick, T., Mukherjee, B., Shi, X. (2025). What's the Weight? Estimating Controlled Outcome Differences in Complex Surveys for Health Disparities Research. *Statistics in Medicine*.

[30] Cai, J., Wissler Gerdes, E. O., Mahoney, C., Brown, G. D., Clark, J., Charlton, M. E., **Roberts, E.K.**, McKelvey, B.A., Wiggins, C.L., Meisner, A.W., Christian W.J., Huang, B., Oleson, J.J., Nash, S.H., Koylu, C. (2025). Understanding Users in Small Area Cancer Mapping: Insights from the Early Stages of a User-Centered Design Process. *Advances in Cartography and GIScience of the ICA*.

#### *Preprints*

Colbert, S. M. C., Psychiatric Genomics Consortium Suicide Working Group [**Roberts, E.K.**], Ruderfer, D., Docherty, A. R., & Mullins, N. (2025). Genome-Wide Association Studies Identify 77 Loci for Suicidality and Provide Novel Biological Insights. *medRxiv*.

#### *R Packages*

mvnPS, IDSurrogacy, publicly available on github  
svydiff, publicly available on cran

#### *Rshiny Applications*

Tool for evaluating life expectancy after breast cancer diagnosis  
[https://emilyroberts.shinyapps.io/bc\\_lifeexpectancy/](https://emilyroberts.shinyapps.io/bc_lifeexpectancy/)

Tool for assessing causal effect predictiveness plots for illness-death models for surrogacy validation and sensitivity analyses  
[https://emilyroberts.shinyapps.io/id\\_cep\\_parameters/](https://emilyroberts.shinyapps.io/id_cep_parameters/)

Tool to determine value of intermediate outcome (biochemical recurrence) as a marker for futility in a prostate clinical trial [https://emilyroberts.shinyapps.io/bcr\\_futility\\_rules\\_simulations/](https://emilyroberts.shinyapps.io/bcr_futility_rules_simulations/)

Tool to examine time-varying hazards for a pan-cancer approach within SEER data <https://emilyroberts.shinyapps.io/pancancer/>

## **B. Areas of Research Interest and Current Projects**

Causal inference, clinical trial design, Bayesian methods, longitudinal data, survival analysis, oncology, biomarkers

## **C. Funding**

National Institute of Neurological Disorders and Stroke (NINDS) NeuroNEXT. U01 NS077352-11. PI: Coffey, C. 25% 09/2022-Present. Role: Co-Investigator.

Identification of Demographic, Clinical, and Genetic Profiles for Suicidal Behavior in US Veterans. PI: V. Willour. 20%. 1/2024-Present. Role: Co-Investigator.

*Completed*

Collaboratory Grant, College of Public Health IPHPRP Award, 8/1/24-7/31/25, \$75,000. PI: Emily Roberts. Role: PI on Causal Inference Collaboratory.

Pilot Grant, College of Public Health New Faculty Research Award, 1/1/24-12/31/24, \$10,000. PI: Emily Roberts. Role: PI on Project Evaluating Surrogate Markers in a Diabetes Clinical Trial with Longitudinal Measures and Causal Inference Methods.

NIH U24 AG066528-01: Telomere Research Network, *Telomere Research Network Analysis Award*, 8/14/20-12/1/21, \$4,000, PI: Stacy Drury. Role: Co-PI on project exploring mediation of the Black/White telomere length difference by persistent organic pollutant exposure.

## **D. Presentations (note some virtual due to COVID-19 pandemic)**

### **1. Invited Presentations**

*Incorporating Patient Characteristics for Surrogate Marker Evaluation with Time-to-Event Endpoints*

Oral Presentation at IDWSDS, October 2025

*Methods for Surrogate Endpoint Validation with Illness-Death Frailty Models in Cancer Clinical Trials*

Oral Presentation at Lifetime Data Science (LIDS) Conference, May 2025

*Causal Inference and Combining Sources of Evidence in Diabetes Studies*  
Oral Seminar Presentation for University of Iowa Frontiers in Obesity, Diabetes, and Metabolism Seminar March 2025

*Introduction to Causal Inference*

Oral Presentation at University of Iowa Center for Social Science Innovation, February 2025

*A Journey in Biostatistics and Causal Inference*

Oral Presentation at Coe College Math Colloquium, November 2024

*Using Principal Stratification for Surrogate Evaluation with Mixed Models*

Oral Presentation at IDWSDS, October 2024

*Estimation and Interpretation of Time-varying Effects of Tumor and Patient Factors in Cancer Survival Studies*

Oral Presentation at University of Kentucky, Department of Epidemiology and Biostatistics, October 2024

*Causal Inference and Counterfactual Random Effects for Trials with Repeatedly Measured Endpoints*

Invited Poster Presentation at JSM, August 2024

*A Causal Inference Approach for Surrogate Marker Evaluation with Mixed Models*

Oral Presentation at ENAR, March 2024

*Causal Inference Methods to Validate Surrogate Endpoints with Time-to-Event Data*

Oral Presentation at University of Minnesota Department of Biostatistics September 2023

*A Causal Inference Approach for Surrogate Marker Evaluation with Mixed Models*

Oral Presentation at University of Austin, Texas Department of Statistics and Data Sciences September 2023

**Paper Award:** *Surrogacy Validation for Time-to-Event Outcomes with Illness-Death Models*

Oral Presentation at JSM August 2023

*Discussion on Surrogate Markers: Identification, Use, and Challenges*

Invited Discussant at JSM August 2023

*Surrogacy Validation with Illness-Death Models and Principal Stratification Methods*

Oral Presentation at WNAR June 2023

*Causal Inference and Surrogacy Validation with Illness-Death Models*

Oral Presentation at ICSA June 2023

*Investigating Surrogate Endpoints for Diabetes Clinical Trials*

Oral Seminar Presentation for University of Iowa Frontiers in Obesity, Diabetes, and Metabolism Seminar February 2023

*Causal Inference and Surrogate Endpoint Validation Using Principal Stratification Methods*

Oral Seminar Presentation for University of Iowa Department of Statistics Seminar February 2023

*Causal Inference Methods to Validate Surrogate Endpoints for Prostate Cancer Trials*

Oral Seminar Presentation for Joint Mathematics Meetings January 2023

*Surrogacy Validation Using Illness-Death Models and Principal Stratification Methods*

Oral Seminar Presentation for University of Pennsylvania Center for Causal Inference Seminar December 2022

*Surrogacy Validation for Time-to-Event Outcomes in Prostate Cancer with Illness-Death Models*

Oral Seminar Presentation for University of Michigan Biostatistics in Cancer Seminar October 2022

*Causal Inference Methods to Validate Surrogate Endpoints with Time-to-Event Data*

Oral Presentation at Banff International Research workshop: Statistical Challenges in the Identification, Validation, & Use of Surrogate Markers August 2022

*Causal Inference Methods to Validate Surrogate Endpoints in Clinical Trials*

Oral Presentation at Joint Mathematics Meetings April 2022

*Surrogacy Validation with Longitudinal Outcomes for a Gene Therapy*

Oral Seminar Presentation for University of Minnesota January 2022

*Surrogacy Validation with Longitudinal Outcomes for a Gene Therapy*

Oral Seminar Presentation for University of Iowa January 2022

*Adapting Causal Ideas from Surrogacy Validation of Intermediate Endpoints to Futility Analysis in Clinical Trials*

Oral Seminar Presentation for St. Jude Children's Hospital January 2022

*Surrogacy Validation with Longitudinal Outcomes for a Gene Therapy*  
Oral Seminar Presentation for Vanderbilt University December 2021

*Surrogacy Validation with Longitudinal Outcomes for a Gene Therapy*  
Oral Seminar Presentation for St. Jude Children's Hospital November 2021

*Surrogacy Validation with Longitudinal Outcomes for a Gene Therapy*  
Oral Seminar Presentation for University of Michigan November 2021

*Surrogacy Validation with Longitudinal Outcomes for a Gene Therapy*  
Oral Seminar Presentation for FDA October 2021

*Exposure to Carcinogens and Racial Differences in Leukocyte Telomere Length: Mediation Analysis of Race and Environmental Exposures*  
Oral Presentation at Telomere Research Network Conference December 2020

*Incorporating Subgroups in a Surrogate Endpoint Setting*  
Oral Presentation at ENAR March 2020

## **2. Conference presentations/posters**

*Formation of a University's Causal Inference Collaboratory*  
Oral Presentation at JSM, August 2025

*Formation of a University's Causal Inference Collaboratory*  
Poster Presentation at Society for Causal Inference Conference, May 2025

*Small Sample Size Clinical Trial Analysis Using External Data with Longitudinal Measures*  
Oral Presentation at ENAR, March 2025

*Combining Levels of Clinical Trial Data to Evaluate Intermediate Endpoints for Futility Analysis*  
Oral Presentation at JSM, August 2024

*Using Clinical Trial Data to Evaluate Intermediate Endpoints for Futility Analysis*  
Oral Presentation ACTStat Annual Meeting August 2023

*Surrogate Validation for Time-to-Event Outcomes with Illness Death Frailty Models*  
Oral Presentation ENAR March 2023

*Surrogacy Validation with Longitudinal Outcomes for a Gene Therapy*  
Oral Presentation Women in Statistics and Data Science October 2022

*Surrogacy Validation with Longitudinal Outcomes for a Gene Therapy*  
Oral Presentation Joint Statistical Meetings August 2022

*Surrogacy Validation with Longitudinal Outcomes for a Gene Therapy*  
Speed Poster Presentation ACTStat Annual Meeting August 2022

*Surrogacy Validation with Longitudinal Outcomes for a Gene Therapy*  
Poster Presentation STAT4Onc May 2022 2<sup>nd</sup> Place Poster Prize

*Evaluating Intermediate Clinical Endpoints for Futility Analysis in Clinical Trials*  
Poster Presentation at Society for Clinical Trials May 2022, Best Poster Award

*Mediation Analysis of Race and Environmental Exposures on Telomere Length using Data from the National Health and Nutrition Examination Survey (1999-2002)*

Poster Presentation at Telomere Research Network Conference December 2021

*Incorporating Longitudinal Outcomes and Baseline Covariates to Validate Surrogate Endpoints*

Poster Presentation at Biopharmaceutical Workshop September 2021

*Validating Surrogate Endpoints with Longitudinal Outcomes*

Speed Talk at Joint Statistical Meetings August 2021

*Incorporating Baseline Covariates to Validate Surrogate Endpoints with a Constant Biomarker under Control Arm*

Oral Presentation at International Society for Clinical Biostatistics Conference July 2021

*Incorporating Baseline Covariates to Validate Surrogate Endpoints with a Constant Biomarker under Control Arm*

Oral Presentation at Society for Clinical Trials Annual Conference May 2021

*Incorporating Baseline Covariates to Validate Surrogate Endpoints with a Constant Biomarker under Control Arm*

Oral Presentation at ENAR March 2021

*Exposure to carcinogens and racial differences in leukocyte telomere length: Mediation analysis of race and environmental exposures*

Oral Presentation at MIDAS Data for Public Good Symposium February 2021

*Validating Surrogate Endpoints with Longitudinal Outcomes*

Sped Oral and Poster Presentation at Michigan Student Symposium for Interdisciplinary Statistics Symposium February 2021: "Best Speed Oral Presentation" Presentation/Poster Award

*Validating Surrogate Endpoints with Longitudinal Outcomes*  
Poster Presentation at MIDAS Annual Symposium November 2020

*Incorporating Subgroups in a Surrogate Endpoint Setting*  
Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS)  
Annual Symposium February 2020: "Best Speed Oral Presentation"  
Presentation/Poster Award

*Incorporating Subgroups in a Surrogate Endpoint Setting*  
Poster Presentation at SAMSI Causal Inference Workshop December 2019

*Incorporating Subgroups in a Surrogate Endpoint Setting*  
Poster Presentation at Michigan Institute of Data Science Symposium November  
2019: "Most Likely to Make an Impact in the Field" Award

*Incorporating Subgroups in a Surrogate Endpoint Setting*  
Poster Presentation at JSM August 2019

*Incorporating Subgroups in a Surrogate Endpoint Setting*  
Poster Presentation at Michigan Rogel Cancer Center Spring Symposium June  
2019

*A Bayesian Mixture Model to Estimate the Effect of an Ordinal Predictor*  
Poster Presentation at ENAR March 2019

*A Bayesian Mixture Model to Estimate the Effect of an Ordinal Predictor*  
Poster Presentation at Michigan Student Symposium for Interdisciplinary  
Statistics Symposium March 2019

*Association of Telomere Length and Race: SES as a Potential Effect Modifier*  
Poster Presentation at MIDAS Data for Public Good Symposium February 2019

*Differential Outcomes by SES in Children Undergoing Treatment for Acute  
Lymphoblastic Leukemia*  
Oral Presentation at Nebraska Conference for Undergraduate Women in  
Mathematics 2016

*Roommate Matching by Design: A Computational Approach and Analysis*  
Oral Presentation at Coe College Research Symposium 2016

*Differential Outcomes by SES in Children Undergoing Treatment for Acute  
Lymphoblastic Leukemia*  
Oral Presentation at Coe College Math Department Colloquium 2015

*Differential Outcomes by SES in Children Undergoing Treatment for Acute*

*Lymphoblastic Leukemia*

Oral Presentation at Rice University Gulf Coast Undergraduate Research Symposium 2015

*Differential Outcomes by SES in Children Undergoing Treatment for Acute Lymphoblastic Leukemia*

Oral Presentation at Harvard Pipeline to Biostatistics 2015

*Evaluation of the CARING Preschool Program*

Oral Presentation at Coe College Research Symposium 2015

*Mission of Hope Action Research*

Oral Presentation at Coe College Research Symposium 2015

*Roommate Matching by Design: A Computational Approach and Analysis*

Poster Presentation at Coe College Research Symposium 2014

*Roommate Matching by Design: A Computational Approach and Analysis*

Oral Presentation at Coe College Psychology Symposium 2014

*Evaluation of the CARING Preschool Program*

Oral Presentation at Coe College Math Department Colloquium 2014

*Evaluation of the CARING Preschool Program*

Poster Presentation at Columbia University 2014

## **IV. SERVICE**

### **1. Memberships in Professional Organizations**

American Statistical Association, ENAR, Society for Clinical Trials, Caucus for Women in Statistics, Society for Causal Inference

### **2. Panels and Service**

Panelist for Interested and Admitted Student Days, Big Data Summer Institute, and Fellowship Funding Seminars University of Michigan 2017-2022

Panelist for Coe College Women in STEM Seminar February 2022

Chair for Alumni Career Panel for University of Michigan Biostatistics 70+ Anniversary Celebration 2022

Chair and Panelist for BIRS-CMO Surrogate Markers Workshop on Assumptions, Sensitivity, and Robustness August 2022

Coe College Panel Session on Grad School Application Season October 2022  
Joint Mathematics Meetings Math Alliance Panel Session January 2023

### **3. Referee Manuscripts/Journal Reviews**

*PLOS-ONE, The Lancet Psychiatry, EClinicalMedicine – The Lancet, Undergraduate Journal of Public Health, Biostatistics, Statistics in Medicine, Biometrics, JAIMA Open, Communications in Statistics – Case Studies and Data Analysis, Journal of Clinical Medicine, International Journal of Biomathematics, The American Statistician, Environmental Research, Annals of Applied Statistics, Health Services and Outcomes Research Methodology, Preventive Medicine Reports, Pharmaceutical Statistics, Clinical Trials, Nature Communications*

#### **4. Referee Grant Submissions**

Alzheimer's Association Research Grant (2023)  
IPHPRP Collaboratory Grant (2025)

#### **5. Committees and Mentoring**

University of Iowa Biostatistics Admissions Committee 2022-Present  
University of Iowa Ladies of UI Biostat Mentor 2022-Present  
Ladies of UI Biostat NCJC Coding Workshop Mentor 2024  
ACTSTAT Conference Organizing Committee 2022-2023  
ACTSTAT Student Paper Award Judge 2023  
ENAR Society's Regional Advisory Board and Student Poster Judge 2023, 2024  
ENAR Society's Regional Student Paper Award Judge 2025  
ENAR Society's WebENAR Committee 2025-Present  
Iowa ASA Committee – Chapter Representative 2023 (Interim), 2024-2025, Secretary 2025-Present  
Iowa ASA Committee Annual Meeting Planning Committee 2024-Present  
IPHPRP Case Competition Team Mentor, 2024, 2025 (2025 Team 1<sup>st</sup> Place)  
Biostatistics Comprehensive Exam Committee 2025  
Biostatistics Student Dissertation Committees (8)  
Non-Biostatistics Student Dissertation Committees (7)  
Biostatistics Master Student Preceptorship Advisor (6)