

HOLLY BOSSART

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hollybossart.com

Current as of July 2021

EDUCATION

Boise State University Applied Mathematics, Statistics Emphasis, BS Economics, Quantitative Emphasis, BA Computer Science Minor	2015-2020
Carnegie Mellon University Statistics, MS	2020-2021 (anticipated)
Carnegie Mellon University Statistics and Public Policy, PhD	2020-2025 (anticipated)

RESEARCH INTERESTS

- Fairness, ethics, accountability and transparency in machine learning
- Missingness and censoring
- Observational data and survey methodology
- Applications in social and health policy

TECHNICAL SKILLS

Software & Tools: Proficient	R/RStudio, Git, Stata, Java, MATLAB, L ^A T _E X, Bash, Python/Jupyter Notebook, Atom, Eclipse, Vi/Vim
In Progress	C, SQL/MySQL

RESEARCH EXPERIENCE

Boise State University September 2016 - August 2018
Research Assistant for Blue Sky Institute

- Planned a statewide initiative with stakeholders to improve mental health in Idaho and eliminate bottlenecks with limited resources.

Dordt University Research Experience for Undergraduates (REU) May 2019 - August 2019
National Science Foundation Student Researcher

- Led original research on an interdisciplinary team regarding mental health attitudes and service utilization in Ukraine.

Carnegie Mellon University December 2020 - Current

- Research on the causal effects of incarceration on depressive symptoms.
- Joint work with Dr. Edward H. Kennedy, Dr. Zachary Branson (Carnegie Mellon University Department of Statistics and Data Science), and Dr. Valerio Bacak (Rutgers University School of Criminal Justice)

TEACHING ASSISTANT EXPERIENCE

Boise State University

August 2016 - May 2020

- Courses: Differential Equations, Probability and Statistics, Calculus I-III, Intermediate Micro- and Macroeconomics, and Public Finance.

Carnegie Mellon University

August 2020 - Current

- Courses: Modern Regression, Reasoning with Data.

PRESENTATIONS

UNDERGRADUATE

Robert Wood Johnson Foundation Selected Speaker, Summer 2017

Presented “Creating a Culture of Health Through Multidisciplinary Research.”

Southern Regional Science Association Annual Conference, Spring 2019

Presented “The Impact of Job Insecurity on Mental Wellbeing in the United States.”

Boise State University Undergraduate Research Conference, Spring 2019

Presented “The Impact of Job Insecurity on Mental Wellbeing in the United States.”

Winner of the Dean’s Choice Award for Outstanding Undergraduate Research.

Dordt University Summer Research Conference, Summer 2019

College of Business and Economics Dean’s Dinner Speaker, Fall 2019

National Conference on Undergraduate Research, Spring 2020 (*Cancelled due to COVID-19*)

Planned presentation: “Regional Analysis of Mental Disorder Prevalence in Ukraine.”

Association of Private Enterprise Education International Conference, Spring 2020 (*Cancelled due to COVID-19*)

Planned presentation: “The Impact of Job Insecurity on Mental Wellbeing in the United States.”

Boise State University Conference on Undergraduate Research, Spring 2020 (**Lightning Plenary Talk**)

Presented “Regional Analysis of Mental Disorder Prevalence in Ukraine.”

ASA’s Women in Statistics and Data Science Conference, Fall 2020

Presented “Regional Analysis of Mental Disorder Prevalence in Ukraine.”

Presented “ESS Multiple Comparison Methods for Long Memory Processes: Application to US Stock Volatilities.”

SELECTED WORKING PAPERS

UNDERGRADUATE

“Regional Analysis of Mental Health Prevalence in Ukraine Using Spatial Epidemiology.” *Working paper*.

Co-authors: Deric Liang, Pennsylvania State University, and Alina Barylsky, Smith College.

Advisor: Dr. Nathan Tintle, Department of Statistics, Dordt University

“ESS Multiple Comparison Methods for Long Memory Processes: Application to US Stock Volatilities.”

Advisor: Dr. Jaechoul Lee, Department of Mathematics, Boise State University.

HERC Fellowship Paper and Senior Thesis

AWARDS AND GRANTS

UNDERGRADUATE

Dean’s List Highest Honors College of Arts and Sciences

Dean’s List Highest Honors College of Business and Economics

College of Business and Economics Signature Student (Fall 2018)

College of Business and Economics Dean’s Choice Award for Undergraduate Research (Spring 2019)

Travel Grant from Dean of College of Business and Economics to Present at Southern Regional Science Association Conference, Washington DC, \$900. (Spring 2019)

HERC Research Fellow, Boise State Institute for STEM & Diversity, \$3,000. (Spring 2020)

Travel Grant from Dean of College of Business and Economics to Present at National Conference on Undergraduate Research, Montana State University, \$1,500. (Spring 2020)

Boise State University Top Ten Scholar Nominee (Spring 2020)

Boise State University’s Top Ten Scholar award is presented to ten individuals who have graduated within the last year who have shown significant achievement in leadership, academics, and research throughout their tenure as undergraduates.

Boise State College of Business and Economics Commencement Student Marshal (Spring 2020)

SERVICE

UNDERGRADUATE

Member and Co-Founder of Boise State University Sources of Strength (Spring 2019 - Spring 2020)

Sources of Strength is an upstream wellness program revolving around suicide prevention and normalizing the conversation around student mental health. This program is the first of its kind on Boise State’s campus and is being implemented through student and faculty volunteers. I helped implement the first year of this program alongside the Dean of Students to plan events and campaigns relating to student mental health awareness.

Volunteer at Marian Pritchett High School/Boise State Computer Science Department (Spring 2020)

I worked with a team of Computer Science professors and students to address the lack of diversity in tech by doing outreach at a local high school for pregnant and parenting teenagers. The program introduced computer science concepts to these women while collaborating with them to develop an application for their needs. The app we built with the students will connect them with low-cost, healthy meals. Our work included going to the school and planning outreach for the students to design and create the application themselves, and providing mentorship.

GRADUATE

Student Advisory Council Member at Carnegie Mellon University Department of Statistics and Data Science

I serve as liaison between the department and my cohort of 19 PhD students. In this role I advocate for the specific needs of my cohort and help plan fundamental events in our department like admitted students day.

Diversity, Equity and Inclusion Board Member at Carnegie Mellon University Statistics and Data Science Department

SCHOLARSHIPS

UNDERGRADUATE

Boise State University Presidential Scholarship 2015-17 (\$10,000)

Len B. and Grace Jordan Economics Scholarship 2017-18 (\$2,595)

Geetha Raha Economics Scholarship 2017-18 (\$880)

Awarded to student representing greatest potential for being the best professional economist.

John J. and Ethel C. Chapman Economics Scholarship 2017-18 (\$3,500)

College of Business and Economics General Scholarship 2017-18 (\$5,000)

Hausrath Mathematics Scholarship 2018-19 (\$200)

Mathematics Department Scholarship 2018-19 (\$220)

Ziniker Maloof Memorial Scholarship 2018-19 (\$540)

Tony Scott Memorial Award 2018-19 (\$3,830)

Len B. and Grace Jordan Economics Scholarship 2018-19 (\$3,980)

John J. and Ethel C. Chapman Economics Scholarship 2018-19 (\$3,315)

Len B. and Grace Jordan Economics Scholarship 2019-20 (\$9,000)

John J. and Ethel C. Chapman Economics Scholarship 2019-20 (\$890)

Total Amount Awarded: \$43,950 (total tuition funding for five years)

GRADUATE

American Statistical Association Pride Scholarship (\$1,000)

PROFESSIONAL MEMBERSHIPS

Member of Spectra Outlist (for LGBT mathematicians) (2020 - Current)

Member of CMQ+ (2020 - Current)

Member of the American Statistical Association (2019 - Current)

Member of the Caucus for Women in Statistics (2019 - Current)

Member of the Boise State Association for Computing Machinery for Women (2018 - 2020)

Dean Appointee to Boise State College of Business and Economics Promotion and Tenure Committee (2017 - 2018)

Social Events Director at Boise State Honors College Student Council (2017 - 2018)

Member of Boise State Economics Association (2015 - 2020)