

Solvejg Wastvedt

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Education

PhD, Biostatistics, University of Minnesota, Minneapolis, Minnesota

Expected Completion: May 2024

BA, Mathematics and Environmental Communications, St. Olaf College, Northfield, Minnesota, 2014

GPA: 3.87

Phi Beta Kappa, 2014

Research Experience

Research Assistant, University of Minnesota, Division of Biostatistics, Fall 2020 - present

Project: Analysis of transfer networks for ST-elevation myocardial infarction (STEMI) patients

Supervisors: Dr. Julian Wolfson (Biostatistics) and Dr. Sayeh Nikpay (Health Policy and Management)

- Wrote and executed Python and R code to process large data sets (>4GB)
- Created network graph from transfer data and conducted network analysis.
- Designed R Shiny app to visualize Minnesota transfer network.

Research Assistant, University of Minnesota, Division of Biostatistics, Spring 2020 - present

Project: Analysis of data from the Norwegian Cruciate Ligament Register

Supervisor: Dr. Julian Wolfson and R. Kyle Martin MD

- Designed and conducted machine learning analyses of registry data to predict risk of revision surgery.
- Coded R Shiny app to deploy predictive model as an in-clinic calculator.
- Conducted extensive data cleaning on registry data, including communicating with registry administrators to clarify errors.

Research Assistant, University of Minnesota, Coordinating Centers for Biometric Research, Fall 2019 - Fall 2020

Project: Advanced treatment for pancreatitis: a prospective observational study of TPIAT (POST)

Supervisor: Dr. James Hodges

- Conducted statistical analyses including regression modeling, generalized mixed effects models, and descriptive analyses.
- Communicated with principal investigators to clarify research questions and explicate results.

Teaching Experience

Teaching Assistant, University of Minnesota, Division of Biostatistics, 2019

- Facilitated discussion and graded assignments for Biostatistics I, online (~75 students).

Professional Experience

Data Analyst, Institute for Community Alliances, Minneapolis, Minnesota, 2018-2019

- Designed data collection process for the annual Point in Time Count of Minnesota's homeless population. Developed Python scripts to streamline data processing and analysis.
- Built and tested reports in a SQL-like environment to describe outcomes at homeless shelters and programs.

- Presented statistical results to funders, federal and state agencies, and program managers.

Reporter, Minnesota Public Radio News, St. Paul, Minnesota, 2016-2018

- Conducted interviews, gathered research, analyzed documents, and wrote investigative, feature, and breaking news stories, with an emphasis on education policy and practice.
- Designed, pitched, and completed data analysis projects in Python and Excel including tracking Uber surge pricing during the Super Bowl, calculating not-previously-published teacher retention rates, and analyzing racial representation on Minnesota school boards.

Reporter, WSKG Public Media, Binghamton, New York, 2014-2016

- Interviewed, researched, and wrote daily news and feature stories, with an emphasis on early childhood through postsecondary education.
- Designed and built a website using JavaScript to display local election results.

Technical Skills

- Programming languages: R, Python, JavaScript, HTML/CSS, Google Apps Script
- Visualization and mapping: R Shiny, Leaflet, Tableau, Power BI

Publications

Boucher, Alexander A., **Solvejg Wastvedt**, et al. "Portal vein thrombosis may be more strongly associated with islet infusion than extreme thrombocytosis after total pancreatectomy with islet autotransplantation." *Transplantation* (January 2021). doi: 10.1097/TP.0000000000003624.

Nanno, Yoshihide, **Solvejg Wastvedt**, et al. "Metabolic measures before surgery and long-term diabetes outcomes in recipients of total pancreatectomy and islet autotransplantation." *American Journal of Transplantation* (March 2021). doi: 10.1111/ajt.16573.

Martin, R. Kyle, **Solvejg Wastvedt**, et al. "Predicting Anterior Cruciate Ligament Reconstruction Failure: A Machine Learning Analysis Utilizing the Norwegian Knee Ligament Registry." (2021). Revise and resubmit.

Bart, Gavin, **Solvejg Wastvedt**, James S. Hodges, and Rebecca Rosenthal. "Did drug use increase following COVID-19 relaxation of methadone take-out regulations? 2020 was a complicated year." (2021). Revise and resubmit.

Lara, Luis F., **Solvejg Wastvedt**, et al. "The effect of smoking and alcohol dependency on opioid use, anxiety and depression in patients undergoing total pancreatectomy and islet autotransplantation. A report from the POST study." (2021). Manuscript submitted for publication.