

JACK M. WOLF

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EDUCATION

- Ph.D., Biostatistics** Anticipated Spring 2025
University of Minnesota, Minneapolis, MN
Advisors: David Vock, Ph.D. and Joseph Koopmeiners, Ph.D.
Dissertation: Statistical Methods to Leverage Information from Secondary Endpoints in the Design and Analysis of Clinical Trials
- B.A., Mathematics, *summa cum laude*** May 2020
St. Olaf College, Northfield, MN
Distinction in Mathematics, Concentration in Statistics & Data Science

RESEARCH EXPERIENCE

- Graduate Research Assistant** August 2020–Present
Biostatistical Design and Analysis Center, University of Minnesota, Minneapolis, MN
Advisor: Kyle Rudser, Ph.D.
 - Consult with researchers in surgery, medicine, gerontology, and other health-related fields
 - Assist with grant and manuscript preparation, study design, and statistical analysis
- Graduate Research Assistant** August 2020–Present
Division of Biostatistics and Health Data Science, University of Minnesota, Minneapolis, MN
Advisors: David Vock, Ph.D. & Joseph Koopmeiners, Ph.D.
 - Develop treatment effect estimators that leverage secondary endpoints and external data sources
 - Establish parameter selection procedures for modeling heterogeneous treatment effects
- Research Assistant** June 2019–July 2019, May 2020–August 2020
Dordt University, Sioux Center, IA
Advisors: Nathan Tintle, Ph.D. & Jason Westra, M.S.
 - Developed methods to leverage summary statistics to perform new statistical inferences
 - Coordinated a multi-cohort meta-analysis to identify genes associated with fatty acid levels
 - Mentored undergraduates in statistical problem solving, simulation, and manuscript writing

TEACHING EXPERIENCE

University of Minnesota:

- Teaching Assistant**, Biostatistical Literacy (PUBH 6414) Fall 2022
- Biostatistics Tutor**, Division of Health Policy & Management Fall 2021–Present

St. Olaf College:

- Instructor**, Statistics I (STAT 172) January 2024
- Instructor**, Statistics for Science (STAT 212) January 2023
- Teaching Assistant**, Statistical Theory (STAT 322) Spring 2020
- Teaching Assistant**, Introduction to Data Science (MSCS 264) Fall 2019
- Teaching Assistant**, Statistics for Science (STAT 212) Fall 2017

Peer-Reviewed Publications:

*: Joint first-authors, †: Advisee of Jack M. Wolf

1. Urbanski D. P., **Wolf, J. M.**, Langworthy, B. W., Parikh, R. R., Jutkowitz, E., & Shippee, T. P. (in press). Unmet hearing aid need in people with dementia: Insights from the National Core Indicators survey. *Journal of the American Medical Directors Association*.
2. Shaukat, A., **Wolf, J. M.**, Rudser, K. D., & Church T. R. (in press). Multi-level interventions to improve colorectal cancer screening through outreach in an urban Native American community: A pilot randomized clinical trial. *Clinical Gastroenterology and Hepatology*.
3. Swart, M., Ahiskeli, A., **Wolf, J. M.**, & Shaughnessy, M. (2023). Implementation and outcomes of an empiric ivermectin Strongyloides treatment protocol for patients receiving high-dose corticosteroids for severe COVID-19. *American Journal of Tropical Medicine and Hygiene* 109(3), 650–655.
4. Baum, K. D., Vlaanderen, D., James, W., Huppert, M. J., Kettler, P., Chell, C., Shadiow, A., Strike, H., Greenlee, K., Brown, D., Hick, J., **Wolf, J. M.**, Fiecas, M. B., McLaughlin, E., Kesler, S., & Dichter, J. R. (2023). The Minnesota Medical Operations Coordination Center (MOCC): A COVID-19 statewide response to ensure access to critical care and medical-surgical beds. *CHEST*.
5. **Wolf, J. M.** (2023). tehtuner: An R package to fit and tune models for the conditional average treatment effect. *Journal of Open Source Software*, 8(86), 5453.
6. Deng, C.*, **Wolf, J. M.***, Vock, D. M., Carroll, D. M., Boatman, J. A., Hatsukami, D. K., Leng, N., & Koopmeiners, J. S. (2023). Practical guidance on modeling choices for the Virtual Twins method. *Journal of Biopharmaceutical Statistics*, 33(5), 653-676.
7. Blaes A., Nair, C., Everson-Rose, S., Jewett, P., **Wolf, J. M.**, & Zordoky, B. (2023) Psychological measures of stress and biomarkers of inflammation, aging, and endothelial dysfunction in breast cancer survivors on aromatase inhibitors. *Scientific Reports*, 13, 1677.
8. Zigarelli, A.†*, Venera, H.†*, Receveur, B.†, **Wolf, J. M.**, Westra, J., & Tintle, N. (2023). Multimarker omnibus tests by leveraging individual marker summary statistics from large biobanks. *Annals of Human Genetics*, 87, 125–136.
9. **Wolf, J. M.**, Koopmeiners, J. S., & Vock, D. M. (2022). A permutation procedure to detect heterogeneous treatment effects in randomized clinical trials while controlling the type I error rate. *Clinical Trials*, 19(5), 512–521.
10. Bensignor, M. O., **Wolf, J. M.**, Rudser, K. D., Kelly, A. S., & Arslanian, S. (2022). Glucagon-like peptide-1 receptor agonist prescribing patterns in adolescents with type 2 diabetes. *Diabetes, Obesity and Metabolism*, 24(7), 1380–1384.
11. **Wolf, J. M.**, Westra, J., & Tintle, N. (2021). Using summary statistics to model multiplicative combinations of initially analyzed phenotypes with a flexible choice of covariates. *Frontiers in Genetics*, 12, 1962.
12. **Wolf, J. M.***, Barnard, M.* , Xia, X., Ryder, N., Westra, J., & Tintle, N. (2020). Computationally efficient, exact, covariate-adjusted genetic principal component analysis by leveraging individual marker summary statistics from large biobanks. *Pacific Symposium on Biocomputing*, 25, 719–730.

Manuscripts Submitted for Publication:

13. Shippee, T. P., Bucy, T. I., Parikh, R. R., **Wolf, J. M.**, Shewmaker, P., Mulcahy, J. F., Skarphol, T., Giordano, S., Isvan, N., & Jutkowitz, E. Service utilization and unmet needs in Medicaid home

and community-based services for older adults. Revision submitted to *Journal of Aging & Social Policy*.

14. McKinney, W. T, Israni, K., Schaffhausen, C. R., Schladt, D. P., Lyden, G. R., Matas, A., **Wolf, J. M.**, Japuntich, S., & Israni. A. K. A new tool that helps patients find transplant programs that transplant patients like them: A randomized controlled trial. Submitted to *American Journal of Transplantation*.
15. Shaukat, A., **Wolf, J. M.**, Rudser, K., Goffredo., P., Mandel, J. & Church, T. R. Advanced adenoma is associated with long-term risk of colorectal cancer, cancer related mortality and all-cause mortality: Analysis of the Minnesota Colon Cancer Screening Trial. Submitted to *Annals of Internal Medicine*.
16. **Wolf, J. M.**, Koopmeiners, J. S., & Vock, D. M. Commentary on Chen et al. (2022): The need for continued methodological research on leveraging information in secondary endpoints for more efficient RCTs. Submitted to *Contemporary Clinical Trials*.
17. Dichter, J. R., Brown, D., Zamorano, C., Cohen, J., Miller, E., Niccum, D., LeClaire, M., De Jong, C. B., Diebold, D., Lyons, J., Reilkoff, R., Erickson, H., Martinelli, J., Fischer, J., Mairose, J., Kallestad, J., Chell, C., Shadiow, A., Stoen, S., Hick, J., MacDonell, S., James, W., Waterman, A. T., McLachlan, E., Seaberg, J., Risser, J., Klemond. T., DeMartino, E., Wu, J., DeBruin, D., Wolf, S. M, Sederstrom, N., Baum, K. D., Greenlee, K., Strike, H., Kettler, P., Goodman, K., **Wolf, J. M.**, & Kesler, S. The Minnesota Critical Care Working Group 1: Monitoring and coordinating statewide critical care response in the COVID-19 pandemic, March 2020 through June 2021. Submitted to *CHEST*.
18. Kesler, S. M., De Jong, C. B., Chell, C., DeBruin, D., Erickson, H., Goodman, K., James, W., Kallestad, J., Klemond, T., McLachlan, E., Risser, J., DeMartino E. S., Waterman, A. T., Wolf, S. M., Wu, J., Zamorano, C., Baum, K. D., Brown, D., Cohen, J., Diebold, D., Fischer, J., Greenlee, K., Hick, J., Kettler, P., LeClaire, M., Lyons, J., MacDonell, S., Mairose, K., Martinelli, J., Miller, E., Niccum, D., Reilkoff, R., Seaberg, J., Sederstrom, N., Shadiow, A., Strike, H., **Wolf, J. M.**, & Dichter, J. R. The Minnesota Critical Care Working Group 2: Crisis conditions during the COVID-19 Pandemic, July 2021 through March 2022. Submitted to *CHEST*.

Manuscripts in Process/Preparation:

19. Denlinger-Apte, R. L., Ji, Z., Harwood, E., Lockhart, D., Benowitz, N., Carroll D. M., Cassidy, R. N., Colby, S. M., Hardy, B., Hatsukami, D. K., Higgins, S. T., Luo, X., McClernon, F. J., Smith, T. T., Strasser, A. A., Tidey J. W., Vock, D. M., White, C., **Wolf, J. M.**, Donny, E. C., & Koopmeiners, J. S. Minimal evidence of compensatory smoking: A systematic review and pooled analysis of randomized controlled trials of very low nicotine content cigarettes.
20. Fabius, C. D., Parikh, R., **Wolf, J. M.**, Giordano, S., Fashaw-Walters, S., Jutkowitz, E., & Shippee, T. Race differences in unmet needs among older adults receiving publicly-funded home and community-based services.
21. Goffredo, P.* , Troester, A.* , **Wolf, J. M.**, Rudser, K. D., Church T., R., & Shaukat, A. Proximal polyp location is associated with higher incidence of post colonoscopy colorectal cancer: Analysis of the Minnesota Colon Cancer Control Study.
22. Jutkowitz, E., **Wolf, J. M.**, Parikh, R., Langworthy, L., & Shippee, T. P. Comparing predictors of unmet needs between people with and without dementia receiving home and community-based services.
23. **Wolf, J. M.**, Vock, D. M., Lou, X., Hatsukami, D. K., McClernon, F. J., & Koopmeiners, J.

S. Leveraging information from supplemental endpoints to enhance dynamic borrowing across subpopulations.

SOFTWARE

1. **Wolf, J. M.** (2022). *tehtuner: Fit and tune models to detect treatment effect heterogeneity*. R package version 0.1.1. URL <https://cran.r-project.org/package=tehtuner>.
2. **Wolf, J. M.** & R Core Team and contributors worldwide (2021). *pcsstools: Tools for regression using pre-computed summary statistics*. R package version 0.1.1. URL <https://cran.r-project.org/package=pcsstools>.

PRESENTATIONS

As Presenting Author

1. **Wolf, J. M.**, Vock, D. M., Lou, X., Hatsukami, D. K., McClernon, F. J., & Koopmeiners, J. S. Leveraging information from supplemental endpoints to enhance dynamic borrowing across subpopulations. *Joint Statistical Meetings*, Portland, OR, August 2024 (Contributed Paper).
2. **Wolf, J. M.**, Vock, D. M., Lou, X., Hatsukami, D. K., McClernon, F. J., & Koopmeiners, J. S. Leveraging information from supplemental endpoints to enhance dynamic borrowing across sources. *WNAR Annual Meeting*, Fort Collins, CO, June 2024 (Invited Presentation).
3. **Wolf, J. M.**, Vock, D. M., Lou, X., Hatsukami, D. K., McClernon, F. J., & Koopmeiners, J. S. Leveraging information from supplemental endpoints to enhance dynamic borrowing across subpopulations. *ENAR Spring Meeting*, Baltimore, MD, March 2024 (Contributed Poster).
4. **Wolf, J. M.**, DeGolier, K., & Shore, M. Integrating statistical thinking into high school science curricula with RShiny applets. *United States Conference on Teaching Statistics*, State College, PA, May 2023 (Contributed Poster).
5. **Wolf, J. M.**, Westra, J., & Tintle, N. Using summary statistics to evaluate multiplicative combinations of initially analyzed phenotypes with a flexible choice of covariates. *Annual Meeting of the International Genetic Epidemiology Society*, Virtual, October 2021 (Contributed Presentation).
6. **Wolf, J. M.**, Whittenburg, J. E., Nguyen, M. K. B., Roback, P. J., & Chapp, C. B. Framing of culture war issues in congressional campaign websites. *Joint Statistical Meetings*, Denver, CO, July 2019 (Contributed Speed Presentation).

As Non-Presenting Author

7. Goffredo, P., **Wolf, J. M.**, Rudser, K., Church, T. R., & Shaukat, A. Proximal polyp location is associated with higher incidence of post colonoscopy colorectal cancer: Analysis of the Minnesota Colon Cancer Control Study. *Digestive Disease Week*, Washington, DC, May 2024 (Plenary Presentation).
8. Shaukat, A., **Wolf, J. M.**, Rudser, K., Goffredo, P., Mandel, J. & Church, T. R. Advanced adenoma is associated with long-term risk of colorectal cancer, cancer related mortality and all-cause mortality: Analysis of the Minnesota Colon Cancer Screening Trial. *Digestive Disease Week*, Washington, DC, May 2024 (Plenary Presentation).
9. Khalid, B., Ahern, M., **Wolf, J. M.**, Chu, H., McAdams, B., Loavenbruck, A., & Hordinsky, M. Quantification of cutaneous mast cells to generate reference values for normal scalp. *Annual Meeting of the American Society of Dermatopathology*, Chicago, IL, October 2023 (Contributed Oral Presentation).

10. Raja, K., El-Bokl, A., Rodgers, N., Aggarwal, V., Langworthy, B., **Wolf, J. M.**, & Peck, D. Global left ventricular relaxation index in predicting cardiac rejection in pediatric heart transplant patients. *World Congress of Pediatric Cardiology and Cardiac Surgery*, Washington, DC, August 2023 (Contributed Poster Presentation).
11. Bensignor, M. O., Kelly, A. S., **Wolf, J. M.**, Rudser, K. D., & Arslanian, S. Glucagon-like peptide-1 receptor agonists prescribing patterns in youth with type 2 diabetes. *Annual Meeting of the Pediatric Endocrine Society*, Virtual, April 2022 (Contributed Poster Presentation).
12. Simmons, L., **Wolf, J. M.**, Rudser K. D., Bolan, P., Shenoy, C., Jacobs D., Steinberger, J., Sinaiko, A., & Ryder, J. Childhood obesity as a predictor of adult cardiometabolic disease: a pilot study. *ObesityWeek*, Virtual, November 2021 (Contributed Oral Presentation).
13. Raatz, S., **Wolf, J. M.**, Ryder, J., Gross, A., Rudser K. D., Zeller, M., & Fox, C. Clinical characteristics of children with parental history of metabolic and bariatric surgery. *ObesityWeek*, Virtual, November 2021 (Contributed Poster Presentation).
14. Raatz, S., **Wolf, J. M.**, Ryder, J., Gross, A., Rudser K. D., Zeller, M., & Fox, C. Obesity treatment utilization by pediatric patients with parental history of bariatric surgery. *ObesityWeek*, Virtual, November 2021 (Contributed Poster Presentation).
15. Zigarelli, A., Venera, H., Receveur, B., **Wolf, J. M.**, Westra, J., & Tintle, N. Computationally efficient, exact, multimarker omnibus tests by leveraging individual marker summary statistics from large biobanks. *Annual Meeting of the International Genetic Epidemiology Society*, Virtual, October 2021 (Contributed Poster Presentation).
16. Tintle, N. **Wolf, J. M.**, Barnard, M., Xia, X., Ryder, N., & Westra, J. Evaluation of complex phenotypes through pre-computed summary statistics. *Pacific Symposium on Biocomputing*, Waimea, HI, January 2020 (Contributed Oral Presentation).

HONORS AND AWARDS

Poster Competition Audience Favorite , ASA Twin Cities Chapter	April 2024
Student Paper Award Honorable Mention , ASA Biopharmaceutical Section	January 2024
DSI-MnDRIVE Graduate Assistantship , University of Minnesota	December 2023
Student T. Chalmers Award Finalist , Society for Clinical Trials	May 2022
Roger Williams Award Finalist , International Genetic Epidemiology Society	October 2021
Dean's Ph.D. Scholars Award , University of Minnesota	August 2020
Phi Beta Kappa , St. Olaf College	May 2020
Pi Mu Epsilon , St. Olaf College	March 2018

PROFESSIONAL MEMBERSHIPS

International Biometrics Society - Eastern North American Region	2023–Present
Americal Statistical Association	2018–Present

University of Minnesota:

Student Coordinator , M-CIDeR Clinical Trial Design Lab	September 2023–Present
Student Representative , Biostatistics Faculty Meetings	September 2022–Present
Chair , Biostatistics Student Advisory Council	June 2022–Present
Member , Biostatistics Outreach and Engagement Committee	September 2021–Present
Member , Biostatistics Education Committee	April 2023–Present

St. Olaf College:

Student Representative , Statistics Hiring Committee	November 2019
President , Math Club & Pi Mu Epsilon Honor Society	September 2018–August 2019

Ad-Hoc Referee for:

- *Journal of Open Source Software*