

Sarah N. Medley

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EDUCATION

May 2023 – May 2026 (expected)

University of Michigan, Ann Arbor, MI

Biostatistics (PhD), GPA 4.0

August 2021 - May 2023

University of Michigan, Ann Arbor, MI

Biostatistics (MS), GPA 4.0

September 2016 - May 2021

Oakland University Honors College, Rochester, MI

Mathematics (B.S.), Biological Sciences (B.S.), GPA 3.98

Minor in Applied Statistics

PROFESSIONAL EXPERIENCE

October 2024 – May 2025

FDA-OCE-ASA Oncology Educational Fellowship, virtual

Program Coordinator: Nabeel Babaa, FDA Oncology Center of Excellence (OCE)

August 2021 – May 2026 (expected)

Graduate Student Research Assistant, University of Michigan, Ann Arbor, MI

Advisor: Dr. Kelley Kidwell, Biostatistics Department

May 2020 – August 2021

Biostatistics Intern, Karmanos Cancer Institute, Detroit, MI

Advisor: Dr. Lance Heilbrun, Biostatistics and Bioinformatics Core

May 2017 – May 2021

Undergraduate Student Researcher, Oakland University, Rochester, MI

Honors College Thesis: "Evolutionary Analysis of Epitopes and Low Complexity Regions in Plasmodium"

Advisor: Dr. Fabia U. Battistuzzi, Department of Biological Sciences

January 2020 – May 2021

Supplemental Instruction Leader, Oakland University, Rochester, MI

Course: STA 2226: Applied Probability and Statistics

PUBLICATIONS

PEER REVIEWED BOOK CHAPTERS

1. **Medley, S.** & Kidwell, K. M. (Under Review) SMARTs in Oncology. Hoering, A., Othus, M., Crowley, J. (Ed). *Handbook of Statistics in Clinical Oncology*.

MANUSCRIPTS SUBMITTED

1. **Medley, S.**, Wank, M., Tamura, R. N., Braun, T. M., & Kidwell, K. M. SMARTs with Treatment Preference: Pragmatic SMART Design and Methods Motivated by STAR*D. SSRN preprint: <https://dx.doi.org/10.2139/ssrn.5376787>

MANUSCRIPTS IN PREPARATION

1. **Medley, S.**, Roychoudhury, S., Braun, T. M., & Kidwell, K. M. Bayesian Dynamic Borrowing Approaches for Incorporating Patient Treatment Preferences in SMART Designs.

MANUSCRIPTS PUBLISHED

1. Wank, M., **Medley, S.**, Tamura, R. N., Braun, T. M., & Kidwell, K. M. (2024). A Partially Randomized Patient Preference, Sequential, Multiple-Assignment, Randomized Trial Design Analyzed via Weighted and Replicated Frequentist and Bayesian Methods. *Statistics in Medicine*, 43(30), 5777-5790.
2. Mellinger, J. L., **Medley, S.**, Kidwell, K. M., Asefah, H., Winder, G. S., Fernandez, A. C., Lok, A. S. F., & Blow, F. (2023). Improving alcohol treatment engagement using integrated behavioral interventions in alcohol-associated liver disease: A randomized pilot trial. *Hepatology Communications*, 7(10), e0181.
3. Rutherford, D. V., **Medley, S.**, Henderson, N. C., Gersch, C. L., Vandenberg, T. A., Albain, K. S., Dakhil, S. R., Tirumali, N. R., Gralow, J. R., Hortobagyi, G. N., Pusztai, L., Mehta, R. S., Hayes, D. F., Kidwell, K. M., Henry, N. L., Barlow, W. E., Rae, J. M., & Hertz, D. L. (2023). Effects of CYP3A4 and CYP2C9 genotype on systemic anastrozole and fulvestrant concentrations in SWOG S0226. *Pharmacogenomics*, 24(12), 665–673.
4. Hwang, M., **Medley, S.**, Shakeel, F., Vanderwerff, B., Zawistowski, M., Kidwell, K. M., & Hertz, D. L. (2022). Lack of association of CYP2B6 pharmacogenetics with cyclophosphamide toxicity in patients with cancer. *Supportive Care in Cancer*, 10.1007/s00520-022-07118-y.
5. Oleksyk, T. K., Wolfsberger, W. W., Weber, A. M., Shchubelka, K., Oleksyk, O. T., Levchuk, O., Patrus, A., Lazar, N., Castro-Marquez, S. O., Hasynets, Y., Boldyzhar, P., Neymet, M., Urbanovych, A., Stakhovska, V., Malyar, K., Chervyakova, S., Podoroha, O., Kovalchuk, N., Rodriguez-Flores, J. L., Zhou, W., **Medley, S.**, ..., Smolanka, V. (2021). Genome diversity in Ukraine. *GigaScience*, 10(1), g1aa159.

PRESENTATIONS

- *Design and Analysis of SMARTs with Treatment Preference*. Poster presentation at the Society for Clinical Trials Conference in Vancouver, Canada (May 2025).
- *Design and Analysis of SMARTs with Treatment Preference*. Poster presentation at the Michigan Student Symposium for Interdisciplinary Statistical Sciences (April 2025).
- *Evolutionary Trends in Epitopes and Low Complexity Regions of Multiple Plasmodium Species*. Poster presentation at the Society for Molecular Biology and Evolution Conference in Manchester, England (July 2019).
- *A Bioinformatics Approach to Identify New Candidate Immunogenic Regions in Plasmodium*. Oral presentation at the Oakland University Genomics Symposium (March 2019).
- *Evolutionary Analysis of Epitopes and Low Complexity Regions in Plasmodium*. Poster presentation at the Society for Molecular Biology and Evolution Conference in Yokohama, Japan (July 2018).

ACTIVITIES & AFFILIATIONS

- American Statistical Society Member (January 2022 - present)
- Biostatistics and Epidemiology First Generation Student Group Leader, University of Michigan (August 2021 – May 2023)
- Biostatistics Student Association Committee Member, University of Michigan (August 2022 – May 2023)
- Biostatistics Student Brown Bag Committee Member, University of Michigan (August 2021 - May 2022)

AWARDS & HONORS

- Outstanding Citizenship Award, U-M Department of Biostatistics (2022)
- College of Arts and Sciences Meritorious Achievement Award, Oakland University (2021)
- Louis R. Bragg Graduating Senior Award, Oakland University (2021)
- Thesis with Distinction & Award in Biology, Oakland University Honors College (2021)
- Michael P. and Elizabeth A. Kenny Merit Scholarship for the Sciences, Oakland University (2020)
- Grants in Aid of Research, Sigma Xi (2019)
- Undergraduate Poster Award, Society for Molecular Biology and Evolution Conference (2019)
- Undergraduate Travel Award, Society for Molecular Biology and Evolution Conference (2019)
- Undergraduate Research Award, Oakland University (2017, 2019)