

Monika Schmidt Strah

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EDUCATION

Case Western Reserve University - School of Medicine, Cleveland, Ohio

Ph.D. Clinical Translational Science Degree expected: December 2026 4.0 GPA
Dean's Scholar Award Clinical & Translation Science - 2024

Case Western Reserve University - School of Medicine, Cleveland, Ohio

M.S. Biostatistics Degree: December 2023 4.0 GPA

Kent State University, Kent, Ohio

Postgraduate studies, PhD Candidate in Computational Biology

Dissertation Title: "Questions in Population Genetics and Human Evolution, A Simple Mathematical Approach"

Advisor: Dr. Per Enflo

Wittenberg University, Springfield, Ohio

B.A. Mathematics

B.A. Geography

Marlatte Scholarship, Walter D. Foss Scholarship

EXPERIENCE

Graduate Research Assistant, Case Western Reserve - July 2022 to Feb 2024

School of Medicine

Population and Quantitative Health Sciences Department

Mentor: Dr. Abdus Sattar

Teaching Assistant, Case Western Reserve University – Summers 2023, 2024

PQHS 435 – Categorical Data Analysis

Teaching Assistant, Case Western Reserve University - 2021/22, 2022/23, 2023/24

PQHS 431 - Statistical Methods I and

PQHS 432 - Statistical Methods II

Adjunct Faculty, Kent State University - 2007-2010

Mathematics Department

Teaching Assistant, Kent State University - 1999-2001

Mathematics Department

Teaching Assistant, Kent State University - 1998-1999

Biomedical Sciences Department

PUBLICATIONS and PATENTS

Dirajlal-Fargo, S., Sattar, A., Strah, M., Karungi, C., Gumikiriza-Onoria, J., Asiedu, N., Nanteza, A., Santoro, A., Ferraris, C., Tsapalas, D., Morrison, C., Musiime, V., McComsey, G., Robbins, R. (2023). "Immune activation and neurocognition in Ugandan adolescents living with HIV." Conference on Retroviruses and Opportunistic Infections (CROI), Seattle, Washington, USA, Feb 19 - 22.

Dirajlal-Fargo, S., Strah, M., Ailstock, K., Sattar, A., Karungi, C., Nazzinda, R., Kityo, C., Musiime, V., Funderburg, N., McComsey, G., "Persistent immune activation and altered gut integrity over time in a longitudinal study of Ugandan youth with perinatally acquired HIV." Frontiers in Immunology, 28 March 2023. Volume 14. <https://www.frontiersin.org/articles/10.3389/fimmu.2023.1165964/full>

Sahara Dirajlal-Fargo, Monika Strah, Kate Ailstock, Abdus Sattar, Christine Karungi, Rashidah Nazzinda, Nicholas Funderburg, Cissy Kityo, Victor Musiime, Grace A McComsey. "Factors associated with Longitudinal Changes in insulin resistance in Ugandan youth with and without HIV." Submitted to the Journal of the Pediatric Infectious Diseases Society on 4/21/23. JPIDS-2023-150.

L.M. Bartolo, A. Melton, M. Strah, C.S. Lowe, L. Feng, and C. Woolverton, "An Electronic Scientific Notebook: Metadata and Database Design for Multidisciplinary Scientific Laboratory Data", in Proc. ICEIS, 2002, pp.307-310.

"Effectiveness of Tagging Laboratory Data Using Dublin Core in an Electronic Scientific Notebook". CRIS 2002 6th International Conference on Current Research Information Systems, Gaining Insight from Research Information/ Ed. By Wolfgang Adamczak and Annemarie Nase, Kassel: kassel university press, 2002, ISBN 3-933146-844.

"Method and System for Managing Data Objects" 2004. Inventors: Austin Melton, Laura Bartolo, Christopher J. Woolverton, Monica Strah, Cathy Lowe, Louis Feng, US 2004/OO15514A1.

PRE-PUBLICATIONS

"Questions in Population Genetics and Human Evolution - A Simple Mathematical Approach", Per Enflo, Monika Strah

"Regions Where the Populations Do Not Reproduce Themselves: With Applications to the Neandertal Enigma."
Per Enflo, Monika Strah

"Investigating Small Effective Population Size in Today's Population", Per Enflo, Monika Strah

"Theoretical Study of Effective Population Sizes", Per Enflo, Monika Strah

MEMBERSHIP IN PROFESSIONAL SOCIETIES

American Statistical Association: January 2021-present.

International Biometrics Society: May 2023-present.

International Society for Clinical Biostatistics: May 2023-present.

JUDGING and COMMITTEES

Case Western Reserve University - Intersections: SOURCE Symposium - April 2022, Undergraduate Research Event.

Case Western Reserve University - MPH Capstone Committee member (2024) - Student: Kimberly Han

EXTRACURRICULAR

Varsity College Track, Wittenberg University

Varsity College Basketball, Captain, Wittenberg University

Professional Ski Instructors of America – 10 years

National Ski Patrol Volunteer – 9 years

Old Trail School Library Volunteer -11 years