

**Rachel Elizabeth Rosenberg Goldstein, Ph.D., M.P.H.**  
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**EDUCATION**

**University of Maryland, College Park**

Ph.D. in Toxicology and Environmental Health, May 2013

GPA 4.0/4.0

- Member, past-president, Gamma Zeta Chapter of Delta Omega, Honorary Society in Public Health
- Relevant Coursework Includes: Categorical Data Analysis, Intermediate Epidemiology, Infectious Disease Epidemiology, Water Resources, Diseases in the Chesapeake Bay

**University of Maryland, College Park**

Master of Public Health, Environmental Health Sciences, May 2010

GPA 4.0/4.0

- Relevant Coursework Included: Nonpoint Source Pollution Assessment Techniques, Biological Contaminants, Epidemiology, Health Behaviors, Biostatistics, Toxicology, and Risk Assessment

**University of North Carolina at Chapel Hill**

Environmental Studies, Bachelor of Arts, May 2005

GPA 3.8/4.0

- Phi Beta Kappa, National Scholars Honor Society
- Relevant Coursework Included: Environmental Science, Physics I & II, Estuarine Processes, Watershed Systems, Environmental Communication, Introduction to GIS

**PROFESSIONAL EXPERIENCE**

**University of Maryland, College of Agriculture & Natural Resource Economics, Department of Agricultural & Resource Economics; University of Maryland School of Public Health – College Park, MD**

*Assistant Research Professor* (January 2017 – Present)

- CONSERVE Co-Project Director for the Extension Activity. Coordinating needs assessment development, distribution, and analysis. Leading risk assessment on reclaimed water used for agricultural irrigation.

**University of Maryland School of Public Health – College Park, MD**

*Adjunct Lecturer* (January 2016 – December 2016)

- Taught Introduction to Environmental Health to MPH and PhD students.

**Maryland Institute for Applied Environmental Health - University of Maryland, College Park, MD**

*Postdoctoral Fellow* (January 2014 – December 2015)

- Analyzed environmental health data and managing, organizing, and writing environmental health articles. Projects focused on: 1) socioeconomic and environmental determinants of foodborne illness; and 2) reclaimed water and water reuse.

**Maryland Institute for Applied Environmental Health - University of Maryland, College Park, MD**

*Graduate Assistant* (September 2008 – May 2013)

- Conducted environmental microbiology laboratory work for research projects on the prevalence and pathway of *Salmonella* on tomato farms, irrigation workers' exposures to antimicrobial-resistant bacteria present in reclaimed water, and microbiological and chemical contaminants in private well water.

**Eastern Research Group, Inc.,** Arlington, VA

*Environmental Communications Specialist* (Fall 2005 – May 2008)

- Provided support to U.S. Environmental Protection Agency voluntary partnership programs.
- Developed outreach materials and managed communications with program partners.

**INVITED LECTURES**

**University of Maryland, College Park**

*Foundations of Environmental Health* (February 2017)

- Lectured about basic hydrological concepts, water quality, and water supply issues.

**University of Maryland, College Park**

*The Microbiological Safety of Fresh Produce* (October 2016)

- Lectured on the link between water and food safety.

**University of Maryland, College Park**

*Biological Contaminants* (November 2012, November 2014)

- Lectured about wastewater treatment, contaminants, and related research projects.

**University of Maryland, College Park**

*Honors Seminar: Public Health Perspectives: How Does the Environment affect Human Health* (March 2012)

- Lectured about possible bacterial contaminants in reclaimed water.

**University of Maryland, College Park**

*Foundations of Environmental Health* (February 2011)

- Lectured about basic hydrological concepts, water quality, and water supply issues.

**University of North Carolina at Chapel Hill**

*Water Resource Management and Human Rights* (February 2010)

- Lectured about biological and chemical contaminants in U.S. surface waters.

**University of Maryland, College Park**

*Honors Seminar: Public Health Perspectives: How Does the Environment affect Human Health* (February 2010)

- Lectured about possible exposure to antibiotic-resistant bacteria in reclaimed water.

**PRESENTATIONS**

**Maryland Water Monitoring Council 18th Annual Conference** (December 2012)

*Linthicum Heights, MD*

- Poster presentation, “Analysis of Private Well Water Quality and Well Owner Education Program in Maryland: A Pilot Project.”

**Maryland Groundwater Symposium** (September 2012)

*Baltimore, MD*

- Oral presentation, “Analysis of Private Well Water Quality and Well Owner Education Program in Maryland: A Pilot Project.”

**Priester National Extension Health Conference** (April 2012)

*Washington, DC*

- Oral presentation, “Well Water Education Program: A Collaborative Project Between Extension Educators and University of Maryland Public Health Researchers.”

**Water and Health: Where Science Meets Policy 2011 Conference** (October 2011)

- Oral presentation, “Assessing an alternative water source: Evaluation of methicillin-resistant *Staphylococcus aureus* in secondary treated wastewater used for spray irrigation in Nebraska”

**American Society for Microbiology 111th General Meeting** (May 2011)

- Poster presentation “Survival of Methicillin-resistant *Staphylococcus aureus* in Secondary Treated Wastewater.”

**Water and Health: Where Science Meets Policy 2010 Conference** (October 2010)

*University of North Carolina at Chapel Hill*

- Oral presentation, “Evaluating occupational exposures to antibiotic-resistant bacteria from wastewater reuse.”

**American Society for Microbiology 110th General Meeting** (May 2010)

- Poster presentation “Reductions of Methicillin-resistant *Staphylococcus aureus* and Vancomycin-resistant *Enterococcus* spp. at a U.S. Tertiary Wastewater Treatment Plant.”

**American Public Health Association 137th Annual Meeting & Expo** (November 2009)

- Poster presentation “Irrigation workers’ exposures to antimicrobial-resistant bacteria and antimicrobials present in reclaimed wastewater.”

**PUBLICATIONS**

**Rosenberg Goldstein RE**, Lara M. Kleinfelter, Xin He, Shirley A. Micallef, Ashish George, Shawn G. Gibbs, Amy R. Sapkota. 2017. *Higher prevalence of coagulase-negative staphylococci carriage among reclaimed water spray irrigators*. *Sci Total Environ*, **595**: 35-40.

**Rosenberg Goldstein RE**, Cruz-Cano R, Jiang C, Palmer A, Blythe D, Ryan P, Hogan B, White B, Dunn JR, Libby T, Tobin-D’Angelo M, Huang JY, McGuire S, Scherzinger K, Ting Lee M-L and Sapkota AR. 2016. Association between community socioeconomic factors, animal feeding operations, and campylobacteriosis incidence rates: Foodborne Diseases Active Surveillance Network (FoodNet), 2004–2010. *BMC Infectious Diseases* **16**:354.

Carey SA, **Rosenberg Goldstein RE**, Gibbs SG, Claye E, He X, and Sapkota AR. 2016. Occurrence of vancomycin-resistant and -susceptible *Enterococcus* spp. in reclaimed water used for spray irrigation. *Environmental Research*. **147**: 350–355.

**Rosenberg Goldstein RE**, Micallef SA, Gibbs SG, He X, George A, Sapkota A, Joseph SW and Sapkota AR. 2014. Occupational Exposure to *Staphylococcus aureus* and *Enterococcus* spp. among Spray Irrigation Workers Using Reclaimed Water. *International Journal of Environmental Research and Public Health*. **11**(4): 4340-4355

Shaw KS, **Rosenberg Goldstein RE**, He X, Jacobs JM, Crump BC, Sapkota AR. 2014. Antimicrobial susceptibility of *Vibrio vulnificus* and *Vibrio parahaemolyticus* recovered from recreational and commercial areas of the Chesapeake Bay and Maryland Coastal Bays. *PLOS ONE* **9**(2): e89616.

**Rosenberg Goldstein RE**, Micallef SA, Gibbs SG, George A, Claye E, Sapkota A, Joseph SW, and Sapkota AR. 2014. Detection of Vancomycin-Resistant Enterococci (VRE) at Four U.S. Wastewater Treatment Plants that Provide Effluent for Reuse. *Science of the Total Environment*. **466-467**:404-11.

Micallef SA, **Rosenberg Goldstein RE**, George A, Ewing L, Tall BD, Boyer MS, Joseph SW, Sapkota AR. 2013. Diversity, Distribution and Antibiotic Resistance of *Enterococcus* spp. Recovered from Tomatoes, Leaves, Water and Soil on Mid-Atlantic Farms. *Food Microbiology*. **36**(2):465-74.

Pasturel BZ, Cruz-Cano R, **Rosenberg Goldstein RE**, Palmer A, Blythe D, Ryan P, Hogan B, Jung C, Joseph SW, Wang MQ, Ting Lee M-L, Puett R, and Sapkota AR. 2013. Rurality, Presence of Broiler Operations, and Community Socioeconomic Factors Influence the Risk of Campylobacteriosis in Maryland. *American Journal of Public Health*. **103**(12):2267-75.

**Rosenberg Goldstein RE**, Micallef SA, Gibbs SG, Davis JA, George A, Kleinfelter LM, Schreiber NA, Mukherjee S, Sapkota A, Joseph SW, and Sapkota AR. 2012. Methicillin-Resistant *Staphylococcus aureus* Detected At Four U.S. Wastewater Treatment Plants. *Environmental Health Perspectives*. **120**(11): 1551-1558.

Jean-Gilles Beaubrun J, Cheng C, Chen K, Ewing L, Wang H, Agpaoa MC, Huang MJ, Dickey E, Du JM, Williams-Hill DM, Hamilton B, Micallef SA, **Rosenberg Goldstein RE**, George A, Joseph SW, Sapkota AR, Jacobson AP, Tall BD, Kothary MH, Dudley K and Hanes DE. 2012. The evaluation of a PCR-based method for identification of *Salmonella enterica* serotypes from environmental samples and various food matrices. *Food Microbiology*. **31**(2):199-209.

Micallef SA, **Rosenberg Goldstein RE**, George A, Kleinfelter LM, Boyer MS, McLaughlin CR, Estrin A, Ewing L, Jean-Gilles Beaubrun J, Hanes DE, Kothary MH, Tall BD, Razeq JH, Joseph SW, and Sapkota AR. Occurrence and Antibiotic Resistance of Multiple *Salmonella* Serotypes Recovered from Water, Sediment and Soil on Mid-Atlantic Tomato Farms. *Environmental Research*. **114**:31-9.

Sapkota AR, Coker ME, **Rosenberg Goldstein RE**, Atkinson NL, Sweet SJ, Sopeju PO, Ojo MT, Otivhia E, Ayepola OO, Olajuyigbe OO, Shireman L, Pottinger PS, Ojo KK. Self-medication with antibiotics for the treatment of menstrual symptoms in southwest Nigeria: a cross-sectional study. *BMC Public Health*. **10**:610.

## **HONORS**

**University of Maryland Bioscience & Technology Review Day Family, Community and Public Health Poster Winner** (November 2012)

• Poster presentation “Analysis of Private Well Water Quality and Well Owner Education Program in Maryland: A Pilot Project.”

**“Engaged Me” Award, Priester National Extension Health Conference** (April 2012)

• Oral presentation, “Well Water Education Program: A Collaborative Project Between Extension Educators and University of Maryland Public Health Researchers.”

**Maryland Institute for Applied Environmental Health Fellowship** (November 2011 – May 2013)

**University of Maryland Bioscience & Technology Review Day Water Quality and Management Poster Winner** (November 2011)

• Poster presentation “Survival of Methicillin-resistant *Staphylococcus aureus* in Secondary Treated Wastewater.”

**APHA Environment Section Student Scholarship** (October 2011)

**University of Maryland, College Park School of Public Health, Student Research Interaction Day Poster Award** (September 2011)

**University of Maryland Graduate Student Summer Research Fellowship** (Fall 2010 –May 2013)

**Dean’s Fellowship** (Fall 2010 – May 2013)

**Maryland Water Resources Research Center 2010 Summer Fellowship** (May-August, 2010)

**Dean’s Graduate Scholar** (March 2010)

**University of Maryland Bioscience & Technology Review Day Family, Community and Public Health Poster Award** (November 2009)

- Poster titled “Irrigation workers’ exposures to antimicrobial-resistant bacteria and antimicrobials present in reclaimed wastewater.”

**American Public Health Association Environment Section's Student Achievement Poster Award** (November 2009)

- Poster titled “Irrigation workers’ exposures to antimicrobial-resistant bacteria and antimicrobials present in reclaimed wastewater.”

## **SERVICE**

**“Climbing Up and Reaching Back (CURB)”’: Ladder of Support for Research Careers in Biomedical and Behavioral Research**, College Park, MD

*Graduate Student Presenter* (December 2011 – April 2012)

- Presented lecture and interactive experience on environmental health for high school students.

**Delta Omega, Gamma Zeta Chapter**, College Park, MD

*Inaugural President*, (November 2011 – September 2012)

- Coordinated meetings, service activities, nomination process, and induction ceremony.

**Public Health Garden**, College Park, MD

*Co-founder and Secretary Treasurer* (January 2011 – June 2012)

- Developed constitution and collaborated with campus stakeholders to establish an edible garden.

**Dean’s Student Advisory Committee**, University of Maryland School of Public Health

*Student Representative for Maryland Institute for Applied Environmental Health* (October 2009-May 2012)

- Proposed Public Health Garden idea.
- Provided feedback to Dean of School of Public Health on School and University issues.

**Accreditation Committee**, University of Maryland School of Public Health

*Student Representative for Maryland Institute for Applied Environmental Health* (August – October 2009)

- Represented the Institute and the School during the site visit for the accreditation of the School of Public Health by the Council on Education for Public Health (CEPH).

**United Nations Commission on Sustainable Development (CSD-16)**, New York, NY  
*Youth Delegate*, (May 2008)

- Drafted policy documents, participated in meetings, and presented action items on drought, desertification, and water sanitation.