

**Kishana Yvonne (Williamson) Taylor, M.S., Ph.D.**

**CURRICULUM VITAE**

Department of Biomedical Engineering \* Carnegie Mellon University

Co-Founder, Black In Microbiology

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**EDUCATION**

**Ph.D.** University of Georgia, Athens, Georgia, Interdisciplinary Biomedical Science, 2018 Dissertation:  
Development of an In-Vivo Model for Epizootic Hemorrhagic Disease Virus.

**M.S.** The George Washington University, Washington, D.C., Public Health Microbiology and  
Emerging Infectious Disease, 2013  
Thesis: *The Effects of Confined Poultry Feeding Operations on Discharges of Antimicrobial-  
Resistant Pathogenic E. Coli and Nutrients from Watersheds.*

**B.S.** University of Delaware, Newark, Delaware, Animal Science, 2011  
Thesis: Zoos and Aquariums of the Past Present and Future: An Ethical and Scientific Critique of  
Zoos and Aquariums in the 21<sup>st</sup> Century and the Future of Zoos.

**PROFESSIONAL APPOINTMENTS**

August 2020 – Current **Postdoctoral Researcher**, Carnegie Mellon University, Biomedical  
Engineering

July 2020 – Current **HHMI Inclusive Excellence Teaching Fellow**, Mercy College, Natural  
Sciences

August 2018 – January 2018 **Maternity leave**

May 2018 – August 2020 **Postdoctoral Researcher**, Univ. of California at Davis,  
Microbiology and Molecular Genetics

**AWARDS AND HONORS**

Cornell Rising Star, 2020, Cornell University  
University Senior Thesis, 2010, University of Delaware  
Summer Institute Scholar 2009, University of Delaware  
Woman of Promise 2008, University of Delaware  
Science and Engineer Scholar 2008, University of Delaware  
EPSCoR Scholar 2008, University of Delaware

## FORTHCOMING PUBLICATIONS

**Taylor, K.** 2021. Incorporating Vulnerable and At Risk Population Into The One Health Framework. *Frontiers in Public Health*. In Prep (Invited submission)

**Taylor, K.**, Wilson, J.J., Park, A., Nemeth, N. M., Yabsley, M., Fenton, H., Keel, M.K., and Gottdenker, N. L. 2020. *Temporal and spatial patterns in Canine Distemper Virus cases in wildlife diagnosed at the Southeastern Cooperative Wildlife Disease Study (SCWDS), 1975- 2019*. Submitted.

## PUBLICATIONS

**Taylor, K.\***, A.J. Kozik, C. Spriggs, N. Scott, N. Pittman. 2021. *Introducing the Black Microbiologists Association*. *Lancet Microbe*. Accepted.

**Taylor, K.\***. 2020. mSphere of Influence: *That's Racist –COVID-19, Biological Determinism, and the Limits of Hypotheses*. *mSphere* 5:e0094520. <https://doi.org/10.1128/mSphere.00945-20>

**Taylor, K.\***, M.G. Ruder, D.G. Mead, D. E. Stallknecht. 2020. *An Embryonated Chicken Egg Transmission Model for North American Epizootic Hemorrhagic Disease Viruses*. *Zoonotic and Vector borne Diseases* 20:9; 728-730. <https://doi.org/10.1089/vbz.2019.2590>

Wong, N, J. Graham, C. Pelc, **K. Taylor**, L. B. Price, M. Altabet, T.E. Jordan. 2020. *Effects of Confined Poultry Operations on Antimicrobial-Resistant Escherichia coli and Nutrient Pollution in Chesapeake Bay Watersheds*. *Science of The Total Environment* 735: 15 September, 139401  
<https://doi.org/10.1016/j.scitotenv.2020.139401>

Soler-Garcia, A.A., A.J. De Jesus, **K. Taylor** and E.W. Brown. 2014. *Differentiation of Salmonella Strains from the SARA, SARB and SARC Reference Collections by Using Three Genes PCR-RFLP and the 2100 Agilent Bioanalyzer*. *Frontiers in Microbiology* 5:417.

**Williamson K.**, R.L. Alphin, C. Ciaverelli, M. Rankin, and E.R. Benson. Feed Info 2009. *Onset and Cessation of Rigor Mortis in Layer Hens*. February 2009.

\*Corresponding Author

## PRESENTATIONS

### Research

**Taylor, K.** Samuel L. Diaz<sup>1</sup>, Ilechukwu Agu<sup>1</sup>, Ivy José<sup>1</sup>, Mirella Salvatore<sup>2</sup>, Tsui-wen Chou<sup>3</sup>, Timothy Song<sup>3</sup>, Bin Zhou<sup>4</sup>, David Gresham<sup>3</sup>, Elodie Ghedin. (2019) *High Frequency of Reassortment Among Diverse Influenza Viruses Revealed by High-Throughput Experimental Coinfection*. American Society for Microbiology. San Francisco, CA. (Short Talk and Poster)

**Taylor, K.** Samuel L. Diaz<sup>1</sup>, Ilechukwu Agu<sup>1</sup>, Ivy José<sup>1</sup>, Mirella Salvatore<sup>2</sup>, Tsui-wen Chou<sup>3</sup>, Timothy Song<sup>3</sup>, Bin Zhou<sup>4</sup>, David Gresham<sup>3</sup>, Elodie Ghedin. (2019) *High Frequency of Reassortment Among Diverse Influenza Viruses Revealed by High-Throughput Experimental Coinfection*. Gordon Research Seminar: Viruses and Cells. Barga, Italy. (Short Talk and Poster)

**Taylor, K.** (2019) *The Enemy Within: North American Bunyaviruses and Their Potential to Be the Next Big Pathogen*. California State University, Sacramento. (Invited Talk)

**Taylor, K.**, D. E. Stallknecht, M.G. Ruder, D.G. Mead and E. Howerth (2017). *The Development of a Murine Model for Epizootic Hemorrhagic Disease Virus*. Poster Talk and Poster presented at the American Society for Virology Conference. Madison, WI. (poster)

**Taylor, K.**, D.E. Stallknecht, M.G. Ruder, D.G. Mead and E. Howerth (2017). *The Development of a Murine Model for Epizootic Hemorrhagic Disease Virus*. American Society for Microbiology Conference. New Orleans, LA. (Rapid Fire Talk and Poster)

**Taylor, K.**, J.P. Graham, (2012). *The Effects of Confined Poultry Feeding Operations on Discharges of Antimicrobial-Resistant Pathogenic E. Coli and Nutrients from Watersheds*. George Washington University Research Day Symposium. Washington, D.C. (poster)

## DEI

**Taylor, K.** (2020) *Journey to the Center of a Pandemic: From Dolphins to Viruses and More*. STEM Scholars in Biology 2020 Virtual Institute: Pathways to STEM Careers. Mercy College, Dobbs Ferry, NY. (Invited Talk)

(2020) *Career Path Panel Women+ of color in STEM PhD Programs*. Harvard University, Boston, MA (Invited Panelist)

(2020) *Making Graduate Science More Inclusive*. Stanford University, Stanford, CA (Invited Panelist)

**Taylor, K.** (2020) *Increasing Diversity in the Microbial Sciences: Trainee Perspectives*. Strengthening Career Pathways in Science for Underrepresented Groups, American Society for Microbiology Congressional Briefing on Diversity and Inclusion in STEM. (Invited Talk)

**Taylor, K.** (2020) *Journey to the Center of a Pandemic: From Dolphins to Viruses and More*. STEM Scholars in Biology 2020 Virtual Institute: Pathways to STEM Careers. Mercy College, Dobbs Ferry, NY. (Invited Talk)

**Taylor, K.** (2016). *STEM Diversity and Inclusion, Perspectives on Why It Matters*, University of Delaware Seminar. Newark, DE. (Invited Talk)

## **RESEARCH EXPERIENCE**

### **The University of Georgia, Athens, GA**

Graduate Research Assistant, Southeastern Cooperative Wildlife Disease Study, May 2014- May 2018

### **Food and Drug Administration, College Park, MD**

Microbiology Intern, Center for Food Safety and Nutrition, July 2012 –March 2013

### **The George Washington University, Washington, D.C.**

Graduate Research Assistant, Department of Environmental and Occupational Health, January-November 2012

### **University of Delaware, Newark, DE**

Undergraduate Research, Department of Animal and Food Sciences, January 2008-August 2010

## GRANTS AND FELLOWSHIPS

### Ongoing

### Completed

Loan Repayment Program Award, 2018-2020, National Institutes of Health Role: PI, Amount: \$70,000	2018
Annual Biomedical Research Conference for Minority Students Judge Travel Award Role: Judge, Amount: \$1250	2019
Gordon Research Conference Carl Storm Underrepresented Minority Fellowship Role: Presenter, Amount: \$600	2019
American Society for Virology, Graduate Student Travel Grant Role: Presenter, Amount \$500	2017
The George Washington University Epidemiology and Biostatistics Practicum Research Award Role: Scholar, Amount: \$1200	2012

### Submitted

National Institutes of Health Career Development Award (K99/R00) Potential role of reassortment and co-infection in Orthobunyavirus emergence Role: PI, Amount: \$987,000	2020
Burroughs Wellcome Fund Postdoctoral Enrichment Program Role: PI, Amount: \$60,000	2019
National Science Foundation Postdoctoral Research Fellowship in Biology Role: PI, Amount: \$210,000	2018

## SELECT MEDIA

### Interviews

“Black Microbiologists Push for Visibility Amid a *Pandemic*.” Sept. 28,2020. The New York Times

“Navigating virtual Conferences as a junior researcher.” *Nat Commun* **11**, 5019 (2020).  
<https://doi.org/10.1038/s41467-020-18656-6>

“What Black Scientists Want from Colleagues and Their Institutions.” *Nature* **583**, 319-322 (2020)  
doi: <https://doi.org/10.1038/d41586-020-01883-8>  
Science Communication and Community Outreach

“Scientist Roundtable on COVID-19 Vaccines”. Dec. 18, 2020. WDIV Detroit News.

*Inside the Attempt to Build Trust About the COVID-19 Vaccine in Black Communities*. Dec 12, 2020 PBS News Hour.

## Public Events

**Taylor, K.** (2020) *Fact or Fiction: from Coronavirus origins to vaccine safety*. Syracuse University, Syracuse, NY (Invited Talk)

“Black In Microbiology Week, Virology Day”. September 29, 2020. Black In Microbiology Week. (Panelist)

“Flattening Our Curve: A conversation with Black Scientists and Professionals On The Current and Future Impact of COVID-19”. July 29, 2020. Harvard University, Boston, MA. (Panelist)

“Will a COVID Vaccine be as unreliable as the seasonal flu vaccine?” July 2020. *Global Health Now*. John Hopkins School of Public Health

“Will COVID-19 make the coming flu season worse?” July 2020. *Global Health Now*. Hopkins School of Public Health

## Podcasts

“Black In Microbiology With Ari Kozik and Kishana Taylor.” Oct. 15, 2020. This Week In Virology Ep. 672

“Let’s Talk About COVID-19.” April 2020. PhD Divas Podcast S5E8

## **PROFESSIONAL DEVELOPMENT**

Navigating NIH Programs to Enhance Your Career, NIH Regional Seminar, October 2018

Writing an Effective K Application, NIH Regional Seminary, October 2018

Data Intensive Biology Summer Institute, July 2018

Mosquito and Arbovirus Identification Methods, Pre-Conference Workshop, American Society for Tropical Medicine and Hygiene, November 2016

Scientific Writing and Publishing Institute (SWPI) Online Workshop; American Society for Microbiology, January 2015.

## **LEADERSHIP & SERVICE**

### Professional

Co-Founder and President, Black Microbiologists Association	2021
Co-Founder, Black In Microbiology Week	2020
Postdoctoral Councilor, American Society for Virology	2020-2023
Poster Judge, Annual Biomedical Research Conference for Minority Students	Nov. 2019
Journal Reviewer (PLoS One, PLoS Neglected Tropical Disease, Journal of General Virology)	

### University

Mentorship and Fundraising committee member, Girl Outdoor Adventure in Leadership and Science (GOALS) April 2019 – January 2020

Mentor, Girl Outdoor Adventure in Leadership and Science (GOALS) 2018 – January 2020

Graduate Research Assistants Diversifying STEM (GRADS), University of Georgia, Community Outreach co-chair, 2016-2017

Student Chapter of The Wildlife Disease Association (scWDA), University of Georgia, Co- President,  
2014-2016

Sigma Alpha, Alpha Kappa, Alumni Chapter, University of Delaware, President, 2014- 2018

Ag Day Planning Committee, University of Delaware, 2009 and 2011

Community

Outreach Ministry Leader, Cornerstone Church of God, 2016-2017

Athens-Clarke County Science Fair Judge, January 2016 & January 2017

Small Group Leader, Cornerstone Church of God, 2015-2016