



BIOGRAPHY

UNITED STATES AIR FORCE

Dr. Kimberly Jacoby Morris

Dr. Kimberly J. Jacoby Morris is the STEM Program Coordinator for the Air Force Office of Scientific Research, in Arlington, VA. Dr. Jacoby is responsible for managing activities that improve scientific literacy among students, educators and the public to foster a highly skilled workforce. Her leadership ensures that education funding opportunities and community-based program initiatives promote the engagement of diverse stakeholders in understanding and contributing to technological advancements. Programs that contribute directly to this effort are the ASSURE Program, the Summer Faculty Fellowship Program and the Frontiers of Engineering. Dr. Jacoby enjoys developing creative solutions to address challenges in education.

Prior to this position Dr. Jacoby was an Education Specialist in the Education and Community Involvement Branch at the National Human Genome Research Institute which is a part of the National Institutes of Health in Bethesda, MD. As an Education Specialist she was responsible for managing STEM education and outreach programs, developing educational resources and coordinating digital assets. Her passion for education was inspired by her extensive teaching experience during graduate school and her post-graduate guest lecturer opportunities at Bryn Mawr College.

Before transitioning full-time to the field of education outreach, Dr. Jacoby completed a postdoctoral fellowship with the late Dr. George Harold Patterson at the National Institute of Biomedical Imaging and Bioengineering which is a part of the National Institutes of Health. Dr. Patterson was an award-winning scientist who made major contributions to the field of superresolution microscopy. While working with Dr. Patterson, Dr. Jacoby developed novel near-IR fluorescent probes and extended the photoswitchable FRET technique to democratize costly scientific experiments. Together they authored a book chapter and presented several scientific posters.

EDUCATION

2016 Ph.D. Chemistry, Temple University, Philadelphia, PA
2010 B.A. Chemistry, Arcadia University, Glenside, PA

CAREER CHRONOLOGY (items should be in chronological order; not reverse)

1. 2016 – 2017 Interim Laboratory Lecturer, Bryn Mawr College, Bryn Mawr, PA
2. 2016 – 2017 Adjunct Professor, Arcadia University, Glenside, PA
3. 2017 – 2019 Postdoctoral Fellow, National Institute of Biomedical Imaging and Bioengineering, National Institutes of Health, Bethesda, MD
4. 2019 - 2021- Education Specialist, National Human Genome Research Institute, National Institutes of Health, Bethesda, Maryland
5. 2021 - present – STEM Program Coordinator, Air Force Office of Scientific Research, Arlington, VA

AWARDS AND HONORS

1) Distinguished Achievement Award: For the development of educational resources and virtual experiences during the COVID-19 pandemic: Kelly Government Solutions 2021



- 2) Genome Recognition of Employee Accomplishment and Talent Annual Award for the development and implementation of programming for educators, students, and the public that encourages learning within diverse communities: National Institutes of Health 2020
- 3) Distinguished Achievement Award: Kelly Government Solutions 2020
- 4) 40 Under 40 Mentorship and Changemaking: Arcadia University 2020
- 5) Genome Recognition of Employee Accomplishment and Talent Annual Award for the creation of an educational video signed in American Sign Language designed to increase awareness about preventative genetic screenings and communicating with genetic counselors: National Institutes of Health 2019
- 6) Summer Research Mentor Award: National Institutes of Health 2018

PUBLICATIONS

- 1) Jacoby Morris, K., Barnard, D.T., Narayanan, M. et al. Comparing ultrafast excited state quenching of flavin 1,N6-ethenoadenine dinucleotide and flavin adenine dinucleotide by optical spectroscopy and DFT calculations. *Photochem Photobiol Sci* (2022). <https://doi.org/10.1007/s43630-022-00187-2>.
- 2) Jacoby-Morris K, Patterson GH. Choosing Fluorescent Probes and Labeling Systems. *Methods Mol Biol.* 2021;2304:37-64. doi: 10.1007/978-1-0716-1402-0_2. PMID: 34028710.
- 3) Maya Sabatello, Mary Jackson Scroggins, Greta Goto, Alicia Santiago, Alma McCormick, Kimberly Jacoby Morris, Christina R. Daulton, Carla L. Easter & Gwen Darien (2020) Structural Racism in the COVID-19 Pandemic: Moving Forward, *The American Journal of Bioethics*, DOI: 10.1080/15265161.2020.1851808
- 4) Jacoby Morris, K., Rainey, K., and Patterson, G.H. Democratizing FRET. NIH Quadriennial Review Poster Session, Bethesda, MD, United States, December, 2019.
- 5) Jacoby Morris, K and Kushalnagar, P. ASL Film: Genetic Testing for Breast Cancer. In: American Public Health Association.; Nov 2- 6, 2019; Philadelphia, PA.
- 6) Estrada, L., Jacoby Morris, K., and Patterson, G, H. Structure-Guided Engineering and Spectroscopic Characterization of Biliverdin-Binding Near-Infrared Fluorescent Proteins. Poster Presentation. NIH Summer Research Program Poster Day, Bethesda, MD, United States, Aug 9, 2018.
- 7) Narayanan M, Singh VR, Kodali G, Moravcevic K, Morris KJ, Stanley RJ. An Ethenoadenine FAD Analog Accelerates UV Dimer Repair by DNA Photolyase. *Photochem Photobiol.* 2017 Jan;93(1):343-354. doi: 10.1111/php.12684. Erratum in: *Photochem Photobiol.* 2018 Jan;94(1):195. PMID: 27935052; PMCID: PMC7350397.

PROFESSIONAL MEMBERSHIPS AND ASSOCIATIONS

American Chemical Society
Biophysical Society
Sigma Xi Invited Member
Association of Women in Science

PROFESSIONAL CERTIFICATIONS

Teaching in Higher Education Certification 2011

(Current as of: June 22, 2022)