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Engineering & Scientific Consulting

Joseph Milone, Ph.D.

Senior Scientist | Chemical Regulation and Food Safety
Washington DC
+1-202-772-4946 tel | jmilone@exponent.com

Professional Profile

With over eight years of experience in ecotoxicology, Dr. Milone has a diverse background exploring the adverse effects of agrochemicals across a variety of environmental contexts. Joe's primary expertise is in pollinator protection and risk assessment, where his past academic research examined the impacts of exposure on honey bee reproductive health. His experience leading field and laboratory-based experimentation with honey bees provides a strong foundation for supporting pollinator study design, analysis, and interpretation for regulatory purposes in addition to an understanding of the biological relevance and broader implications of pollinator risk. Joe also has experience providing support for GLP contract research with honey bees for EPA regulatory submissions. Joe previously worked for the USEPA where he was an ecotoxicologist working on ecological risk assessments for conventional pesticides with an emphasis on supporting pollinator-related programs.

At Exponent, Dr. Milone primarily provides Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and Endangered Species Act (ESA) regulatory support.

Academic Credentials & Professional Honors

Ph.D., Entomology, North Carolina State University, 2020

B.S., Environmental and Ecological Sciences, Elon University, 2015

Prior Experience

Ecotoxicologist, USEPA, 2020-2022

Publications

Milone, Joseph P., et al. "Colony-level pesticide exposure affects honey bee (*Apis mellifera* L.) royal jelly production and nutritional composition." *Chemosphere* 263 (2021): 128183.

Milone, Joseph P., and David R. Tarpy. "Effects of developmental exposure to pesticides in wax and pollen on honey bee (*Apis mellifera*) queen reproductive phenotypes." *Scientific Reports* 11.1 (2021): 1020.

Milone, Joseph P., et al. "Differences in larval pesticide tolerance and esterase activity across honey bee (*Apis mellifera*) stocks." *Ecotoxicology and Environmental Safety* 206 (2020): 111213.