

Gloria Raise

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Skills and Abilities

Good communication skills, problem-solving, time management, and ability to settle down in different contexts. Good computer skills. Leadership skills, DNA isolation techniques, pipetting, collection of evidence, and use of BLAST Software acquired in the educational environment.

Education

New Jersey Institute of Technology

Bachelor in Science in Forensic Science - Chemistry Focus
ACS Executive Board Member.

Expected: December 2024

Kean University

Bachelor in Science in Chemistry - Forensic Science

Jan 2020 - May 2022

4.0 GPA; Dean's list, Lambda Alpha Sigma, and scholarship awards; executive board member of Kean Forensic Science Club and American Chemical Society Club. Part of the L.E.A.D. program to build leadership skills.

Professional Development

Aquatic Forensic Entomology Workshop

June 23, 2022

NAFEA Annual Conference, Kean Skylands Campus (NJ)

Workshop with both field experience (collecting aquatic insects from carcasses submerged in water, understanding the techniques used in real forensic cases) and lecture on aquatic forensic entomology with focus on decomposition and aquatic insects.

STEM Category Judge and Host at the 67th NJ Academy of Science Meeting

May 14, 2022

Virtual Meeting

Host of the Engineering Student Competition and Judge of the Medicine and Health Category Student Competition of the New Jersey Academy of Science Virtual Meeting.

Basic Pistol Shooting

April 23, 2022

National Rifle Association of America, Old Bridge (NJ)

NRA (National Rifle Association) course. Six hours lecture on basics of pistol shooting and safety. Practical shooting with a pistol from 10ft of distance from target.

Advanced Bloodstain Pattern Analysis Workshop

February 22, 2022

American Academy for Forensic Sciences Annual Conference | Seattle (WA)

Participated in a hands-on workshop to analyze crime scenes based on bloodstain pattern analysis, accompanied by principles lecture.

Volunteer at Police Expo 2021

August 25, 2021

Police Expo | Atlantic City, NJ

Delivered certificates of completion of Public Safety training to Police Officers.

Forensic Entomology Trainer

August 3-4, 2021

Rutgers University | Camden, NJ

Assisted in the delivery of the "Forensic Entomology" training to 20 police officers from the Prosecutor's Office. The workshop consisted of both field and laboratory components.

DNA Isolation Training

September, 2021

Kean University | Union, NJ

Training in DNA isolation from fungi samples collected from decomposed pigs for research in forensic entomology. Use of BLAST Software for molecular identification of species.

Biology Research Class in Forensic Science

Spring 2021

Kean University | Union, NJ

Participated in a research class in biology and forensic science working on DNA extraction for the project "*Use of DNA Metabarcoding in Forensic Entomology: Potential Intraprocedural Problems*", presented at the 13th Annual Kean Research Day Conference. Fingerprint lifting, presumptive drug tests, collection of entomological evidence, and blood pattern analysis workshops.

Research

Entomological, Bacterial and Fungal Successional Changes During Decomposition

Kean University | Union, NJ

July 2021 - Present

Research assistant. Research on fungal, bacterial and blowfly succession during the process of decomposition with both field work (collection of insects, bacterial and fungal samples) and laboratory components (DNA isolation and extraction). Presented at AAFS 2022 Conference, Kean Research Day 2022, NAFEA 2022 Annual Meeting and ESA Eastern Branch 2022 Meeting.

Effects of Acetaminophen on the Development of *P. regina*

September 2021 - Present

Kean University | Union, NJ

Forensic entomotoxicology research on the development of blowflies treated with acetaminophen. Presented at Kean Research Day 2022, NAFEA 2022 Annual Meeting and ESA 2022 Eastern Branch Meeting.

Poster Presentations

Denise Gemmellaro, Gloria Raise, Amanda O'Connor, Jessica Harlow, Reagan Mcrae, Andrew Falzon. *Forensically Important Insects Collected from Human Bodies in New Jersey*.

AAFS 75th Annual Scientific Conference (accepted)

Orlando (FL)

February 2023

Gloria Raise, Stephanie Urias, M. Denise Gemmellaro. *A Literature Review on the Effects of Heavy Metals on the Development of Blow Flies (Diptera: Calliphoridae)*.

ESA Joint Annual Conference (accepted)

Vancouver (Canada)

November 2022

Gloria Raise, Amanda O'Connor, Nicholas Lorusso, Denise Gemmellaro. *Effects of Acetaminophen on the development of Phormia regina Meigen (Diptera: Calliphoridae)*.

ESA Eastern Branch Meeting

Virginia (VA)

September 2022

Amanda O'Connor, Gloria Raise, Nicholas Lorusso, Maria Shumskaya, Denise Gemmellaro. *Fungal Succession on Decomposing Swine Carcasses*. Poster presentation.

ESA Eastern Branch Meeting

Virginia (VA)

September 2022

Kristina M. Kovalska, Amanda J. O'Connor, Gloria Raise, Olivia Pate, M. Denise Gemmellaro (advisor). *Ecological Succession of the Fungal Communities Throughout the Process of Decomposition*.

14th Annual Research Day

Kean University, NJ

April 2022

Gloria Raise, Daniela B. Grajales, Amanda J. O'connor, Kristina M. Kovalska, Stephanie Urias, M. Denise Gemmellaro (advisor). *Influence of Acetaminophen on the Growth Rate of the black blowfly Phormia regina Meigen (Diptera: Calliphoridae)*.

14th Annual Research Day

Kean University, NJ

April 2022

Rachel Domke, Atenas Castillo, Marie Joseph, Amanda J. O'Connor, Gloria Raise, Gisel Rivera, Jennifer Torres, Mandy Wang, Kyla Whitney, Brittany Worthman, M. Denise Gemmellaro (advisor). *Use of DNA Metabarcoding in Forensic Entomology: Potential Intraprocedural Problems*.

Oral Presentations

Gloria Raise, Amanda J. O'Connor, Daniela B. Grajales, Nicholas Lorusso, Stephanie Urias, M. Denise Gemmellaro (advisor). *Influence of Acetaminophen on the Growth Rate of Phormia regina (Meigen) (Diptera: Calliphoridae)*. Presenting author.

NAFEA Annual Conference

Oak Ridge, NJ

June 2022

Amanda J. O'Connor, Gloria Raise, Nicholas Lorusso, Maria Shumskaya, M. Denise Gemmellaro (advisor). *Successional Changes of Fungal Communities During the Process of Decomposition*. Co-Author.

NAFEA Annual Conference

Oak Ridge, NJ

June 2022

M. Denise Gemmellaro (advisor), Rachel Domke, Kristina M. Kovalska, Amanda J. O'Connor, Olivia Pate, Gloria Raise, Nicholas Lorusso, Maria Shumskaya. *Successional Changes in the Fungal Communities During the Decomposition of Swine Carcasses*. Co-Author.

AAFS 74th Annual Conference

Seattle, WA

February 2022

Accomplishments and Positions

ACS (NJIT) Director of Public Relations

October 2022

Au Pair Scholarship

October 2022

Leadership Development Program Completion

April 2022

Recognition of Academic Excellence

April 2022

Community Service Recognition at Kean

April 2022

National Rifle Association of America, Basic of Pistol Shooting

April 2022

Lambda Alpha Sigma Honor List

March 2022

Member of Leadership Institute

Spring 2022

Department of Chemistry and Physics Annual Scholarship

July 2021

Dean's List

Spring 2020 - Spring 2022

Kean Forensic Science Club - President and Founder

Spring 2021 - Spring 2022

American Chemical Society Club - Director of Public Relations

Fall 2021 - Spring 2022

Professional Associations

Society of Forensic Toxicologists (SOFT)

June 2022- Present

North American Forensic Entomology Association (NAFEA)

April 2022 - Present

New Jersey Associations of Forensic Scientists (NJAFS)

March 2022 - Present

American Academy of Forensic Sciences (AAFS)

February 2022 - Present

Entomological Society of America (ESA)

January 2022 - Present

European Society for Forensic Science (EuSFS)

March 2021 - Present