AMBER MACINNIS

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EDUCATION

2023   PhD in Biology
>   Florida International University

2018   Master's in Applied Ecology
>   University of Nebraska- Lincoln

2017   Master's in forensic entomology coursework only
>   Saint Joseph's College, Rensselaer, IN

2016   BS Biology, certificates in forensic science and criminalistics
>   University of North Texas

RESEARCH EXPERIENCE

2023-present   Postdoctoral Research Associate
>   Texas A&M University- College Station, TX
>   Supervisor: Dr. Jeffery Tomberlin

2018-2023   PhD Dissertation
>   Florida International University -Miami, FL
>   Committee Chair: Dr. Jeffrey Wells
>   Mentor: Dr. James Kennedy

2017-2018   Master's Thesis
>   University of Nebraska
>   Committee Chair: Dr. Leon Higley

2014-2016   University of North Texas undergraduate research
>   Mentor: Dr. James Kennedy

TEACHING EXPERIENCE

2023   Embryo microinjection workshop
>   Florida International University, Miami, FL

2023   Guest Research Lecture: Generating fluorescent blow fly strains to aid in validation of postmortem interval estimates
>   Mount Marty University, Yankton, SD

2023   Guest Lecture: Introduction to Entomology
>   Mount Marty University, Yankton, SD

2019   Entomology Lab TA
>   Florida International University, Miami, FL

2018-2019   Human Biology Lab TA
>   Florida International University, Miami, FL

2017-2018   Principles of Ecology Lab TA
>   University of Nebraska- Lincoln, NE

2016-2017   Human Anatomy and Physiology TA
>   Saint Joseph's College, Rensselaer, IN

2014-2018   Elm Fork Education Center at University of North Texas
>   K-8 science lessons in aquatic studies and paleontology; science summer camps

PRESENTATIONS

1. **MacInnis, AE**, Costa-da-Silva, AL, Bellantuono, AJ, Shengo-Hao, L, DeGennaro, M, Wells JD. 2023. Generating fluorescent blow fly strains to aid in validation of postmortem interval estimates. American Academy

of Forensic Science, Orlando, FL

2. **MacInnis, AE**, Costa-da-Silva, AL, Bellantuono, AJ, Shengo-Hao, L, DeGennaro, M, Wells JD. 2023. Generating fluorescent blow fly strains to aid in validation of postmortem interval estimates. NIJ R&D Symposium, Orlando, FL

3. **MacInnis, AE**, Wells, JD. 2022. Forensic Entomology when the evidence is "no insect." Best carrion fly species for predicting the maximum postmortem interval in the United Arab Emirates. NSF Center for Advanced Research at the American Academy of Forensic Sciences Annual Conference. Seattle, WA.

4. **MacInnis, AE**, Costa-da-Silva, AL, Bellantuono, AJ, DeGennaro, M, Wells JD. 2022. Generating fluorescent blow fly strains to aid in validation of postmortem interval estimates. Biomolecular Sciences Institute Research Symposium. FIU. Miami, FL.

5. **MacInnis, AE**, Costa-da-Silva, AL, Bellantuono, AJ, DeGennaro, M, Wells JD. 2022. Generating fluorescent blow fly strains to aid in validation of postmortem interval estimates. Entomological Society of America Annual Conference, Vancouver, CA

6. **MacInnis, AE**, Well, JD. 2021. Genetic engineering forensically important insects. International Forensic Research Institute Conference. FIU. Miami, FL.

7. **MacInnis, AE**, Higley, LG. 2020. Competition Among Three Species of Forensically Important Blow Fly Species (Diptera: Calliphoridae): *Phormia regina, Lucilia sericata*, and *Chrysomya rufifacies*. International Forensic Research Institute Conference. FIU. Miami, FL

8. **MacInnis, AE**, Wells, JD. 2019. The first forensic entomological experiment in the United Arab Emirates. The pre-appearance interval. NAFEA Conference. IUPUI. Indianapolis, IN.

INVITED TALKS

2023   NIJ R&D Symposium- all expenses paid
        Presentation- Generating fluorescent blow fly strains to aid in validation of postmortem interval estimates

PUBLICATIONS

1. Wells, JD, **MacInnis, AE**, Dsouza, MA, Ul Abdin, Z, Al Mughawi, S, Al Khloofi, M, Sajwani, M, Al Maidoor, M, Saeed, A, Ahli, H, Al Shamsi, R, Al Mheiri, R. 2021. Forensic entomology when the evidence is "no insect." Best carrion fly species for predicting maximum postmortem interval in the United Arab Emirates. *Forensic Science International* 328.

2. **MacInnis, AE**, Higley, LG. 2020. Competition Among Three Forensically Important Blow Fly Species (Diptera: Calliphoridae): *Phormia regina, Lucilia sericata*, and *Chrysomya rufifacies*. *Environmental Entomology* 49(6):1473–1479.

FUNDING

1. 2023 Dissertation Year Fellowship. Florida International University- $18,040.05.
2. 2021 UGS Graduate Student Research Support Program (UGS-GSRSP)- $1200

PROFESSIONAL DEVELOPMENT

2023   Forensic Entomology T-ABFE Workshop
        College Station, TX
2019   Entomological Society of America Conference
        Saint Louis, MO
2017   Entomological Society of America Conference
        Denver, CO
2017   Attended over 30 autopsies at Terre Haute Regional Medical Center with Dr. Kohr
        Terre Haute, Indiana
2017   Attended Shaken Baby Alliance- From Cradle to Cane: Investigation of Crimes AgainstVulnerable Victims

Charleston, South Carolina
2016	Assisted Dr. Neal Haskell with insect identification and collection for forensic entomology cases Rensselaer, IN
2015	North Texas Forensic Academy Certificate Certification through 240 hours of hands on experience in crime scene investigation taught by professionals in the field

FORENSIC ENTOMOLOGY CASES REVIEWED

1. 2023 FLIES Case 182. Reviewed draft report Beeville, TX, USA
2. 2023 FLIES Case 181. Reviewed draft report Montgomery Co., TX, USA
3. 2023 Case ML23-1771. Reviewed draft report Harris Co., TX, USA
4. 2023 Case 2108292. Reviewed draft report Skiatook, OK, USA

FORENSIC ENTOMOLOGY CASE LEAD

1. 2023 FLIES Case 183. Reviewed photographs of entomological evidence for TOC estimation Las Vegas, NV, USA

INDUSTRY PROJECTS

2023   Bio-Ngredients
        Examined different waste stream components as black soldier fly feed