

Donovan D. Trinidad
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EDUCATION

- 2017-Present **University of California, San Francisco**, San Francisco, CA
Doctor of Philosophy (PhD), Biomedical Sciences Program
- 2013-2017 **John Jay College of Criminal Justice, City University of New York**, New York, NY
Bachelor of Science in Cell and Molecular Biology, May 2017

HONORS AND AWARDS

- 2017 The National Institute for General Medical Sciences Initiative for Maximizing Student Development (IMSD) Fellowship, UC San Francisco
- 2016 Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) Travel Award Recipient
- 2016 Poster Presentation Recognition, University of Pennsylvania
- 2016 American Society for Microbiology (ASM) Travel Award Recipient
- 2013, 2016 Dean's List, John Jay College
- 2015-2017 Program for Research Initiatives in Science and Math (PRISM) Scholar

RESEARCH

- 2015-2017 John Jay College of Criminal Justice, New York, NY
Research Assistant
Mentor: Dr. Nathan H. Lents, Professor and Director of the Honors College
Title: Using the Human Skin Necrobiome to Estimate the Postmortem Interval.
Sequenced and analyzed the bacteria found on recently deceased human bodies as they decayed to find correlative variables between bacteria growth and time of death. Duties included performing DNA extraction, PCR, gel electrophoresis, miSEQ 16S metagenomic DNA sequencing
- 2016 University of Pennsylvania, Philadelphia, PA
Summer Undergraduate Internship Program
Mentor: Dr. Michael Povelones, Department of Pathobiology
Title: Characterizing changes in midgut commensals in response to 20-hydroxyecdysone signaling in *Aedes aegypti* mosquitoes.
Studied changes in diversity and commensal numbers in the mosquito midgut after introduction of the steroid hormone 20-hydroxyecdysone, which is produced after a mosquito bloodfeeds. Duties included assisting in rearing the mosquitoes, performing qPCR, and gel electrophoresis.

ABSTRACTS FOR PROFESSIONAL MEETINGS

ORAL CONFERENCE PRESENTATIONS

- 2017 *A Machine Learning Approach for Using the Postmortem Skin Microbiome to Estimate the Postmortem Interval*, Collegiate Science and Technology Entry Program (CSTEP) Conference, Lake George, NY
- 2016 *Characterizing changes in midgut commensals in response to 20-hydroxyecdysone signaling in Aedes aegypti mosquitoes*, The Leadership Alliance National Symposium (LANS), Stamford, CT

- 2016 *Using the Human Necromicrobiome to Estimate the Postmortem Interval*, The Forensic Science Student Research Exchange, Cedar Crest College, Allentown, PA

POSTER CONFERENCE PRESENTATIONS

- 2016 *Using the Human Necromicrobiome to Estimate the Postmortem Interval*, Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) National Conference, Long Beach, CA
- 2016 *Using the Human Necromicrobiome to Estimate the Postmortem Interval*, Penn Honors Diversity (PHD) Symposium, Philadelphia, PA
- 2016 *Characterizing changes in midgut commensals in response to 20-hydroxyecdysone signaling in Aedes aegypti mosquitoes*, Annual SUIP (Summer Undergraduate Internship Program) Research Symposium, Philadelphia, PA
- 2016 *Using the Human Necromicrobiome to Estimate the Postmortem Interval*, American Society for Microbiology (ASM) Microbe, Boston, MA
- 2016 *Using the Human Necromicrobiome to Estimate the Postmortem Interval*, PRISM Undergraduate Research Symposium, New York, NY
- 2015 *Exploring the Postmortem Human Microbiome*, Annual Biomedical Research Conf. for Minority Students (ABRCMS), Seattle, WA

INVITED CAREER AND PROFESSIONAL DEVELOPMENT SEMINARS

- 2016 *Blood Sucking Mosquitoes, Cadavers, and Bacteria*, Cafe Con Science Internal Research Seminar Series, Program for Research Initiatives in Science and Math (PRISM), John Jay College of Criminal Justice, New York, NY
- 2016 *Digication ePortfolio Workshop Series*, Student Academic Success Programs (SASP), John Jay College of Criminal Justice, New York, NY
- 2014 *Acts of Justice Workshop Series*, Student Academic Success Programs (SASP), John Jay College of Criminal Justice, New York, NY

PEER REVIEWED PUBLICATIONS

- 2016 Johnson HR, **Trinidad DD**, Guzman S, Khan Z, Parziale JV, DeBruyn JM, Lents NH. *A Computational Framework for Using the Postmortem Skin Microbiome to Estimate the Postmortem Interval*. PLOS ONE. Dec 2016. V11 (12)

PROFESSIONAL EXPERIENCE

- 2014-2017 **John Jay College of Criminal Justice, Student Academic Success Programs**, New York, NY
College Assistant
Provided academic and career guidance to entering freshmen; Maintained phone and email communication with students; Visited freshmen classes weekly; Coordinated events that provide information regarding campus resources; Facilitated workshops on time management, goal setting, the importance of having an online portfolio.

PROFESSIONAL SOCIETY MEMBERSHIP

- 2016 American Society for Microbiology (ASM)
- 2016 Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)