
Lauren Castellana

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EDUCATION

GEORGETOWN UNIVERSITY, The Graduate School of Arts and Sciences, Washington, D.C.

Master of Science, Biohazardous Threat Agents and Emerging Infectious Diseases

GPA: 4.00

Expected Graduation: May 2020

TEMPLE UNIVERSITY, College of Science and Technology, Philadelphia, PA

Bachelor of Science, Biochemistry; Concentration in Cognitive Neuroscience

GPA: 3.69

Graduation Date: May 9, 2019

- Distinction in Major
- Temple University Honors Program
- Study Abroad: Royal Veterinary College, London, England, Summer 2017

LABORATORY EXPERIENCE & SOFTWARE SKILLS

Immunocytochemistry

Western Blotting

RT-PCR

Fluorescence Microscopy

UV-Vis Spectroscopy

Enzyme Kinetics

TPD-Mass Spectrometry

Fourier Transform Infrared Spectroscopy

Ultra-High Vacuum (UHV)

LabVIEW

Igor Pro Data Analysis Software

OPUS Spectroscopy Software

RESEARCH EXPERIENCE

Undergraduate Research Assistant to Dr. Eric Borguet

May 2018 to May 2019

College of Science and Technology, Department of Chemistry, Temple University, Philadelphia, PA

- **Technical expertise:** Investigated the interactions of simple molecules and chemical warfare agent simulants with Metal-Organic Framework (MOF) materials
- **Initiative:** Developed rationale and technical approach to expand research project to include isopropanol, a binary agent to the chemical warfare agent sarin

Biological Research Assistant to Professor Gurtej Dhoot

June 2017 to August 2017

Royal Veterinary College, London, England

- **Technical expertise:** Provided research support in the biological study of whether cell signaling alters blood vessel structure in cancer tissues where VEGF and/or FGF cell signaling is known to be disrupted

Clinical Research Academic Associate

January 2017 to December 2017

Hospital of the University of Pennsylvania, Philadelphia, PA

- **Cogent analysis and interpersonal skills:** Assessed eligibility of and subsequently enrolled Emergency Department patients into appropriate University of Pennsylvania Health System clinical trials
- **Data Management:** Utilized REDCap to record consented patient data

PUBLICATIONS

Peer-Reviewed Journal Articles

Graves, R.L., Andreyeva E., Perrone J., Shofer F., Merchant R.M., Meisel, Z.F., with Acknowledgements to **Lauren Castellana**, Elizabeth Feeney, Ruby Guo, Hareena Kaur, Sharon Kim, Afaf Moustafa, and Kirsten Myers. "Naloxone Availability and Pharmacy Staff Knowledge of Standing Order for Naloxone in Pennsylvania Pharmacies." *Journal of Addiction Medicine*. 13(4):272-278. 2019 July/August.

WORK EXPERIENCE

- OSLAA Graduate Assistant**, Georgetown University School of Medicine January 2020 to Present
- **Collaboration and communication:** Coordinate with the Senior Associate Dean for Student Learning, the Director of Student Learning, and the Associate Director for Academic Support in order to assist medical school students requesting or inquiring about learning support and academic advising consultations
 - **Computer skills:** Analyze learning consultation data using Microsoft Office and prepare it for monthly meetings, create social media content using Canva, and update office website using WordPress
 - **Independence:** Routinely perform various administrative tasks on behalf of senior office members
- FACS Student Assistant**, Georgetown University School of Medicine September 2019 to Present
- **Communicate effectively:** Provide decision makers, such as medical students and faculty, with data on available scientific poster printing services
 - **Collaboration:** Interact with the office's service coordinator and medical illustrator regarding student and faculty printing requests
- Peer Advisor**, College of Science and Technology, Temple University August 2016 to July 2019
- **Teamwork:** Collaborated with college advisors to inform students about academic policies
 - **Verbal communication:** Conducted student and faculty discussion panels for prospective students during College of Science and Technology Open House and Experience Temple Day events
 - **Initiative and Leadership:** Spearheaded training program to help newly hired peer advisors learn academic, office, and university policies
- Temple Option Reader**, Office of Undergraduate Admissions, Temple University September 2017 to May 2018
- **Written competency:** Selected into highly competitive undergraduate student reader program through a rigorous application process that evaluated writing abilities
 - **Analysis:** Assessed Test Optional applicant essays according to confidential guidelines

HONORS & AWARDS

- Temple University Honors Project Scholar** May 2019
Faculty Mentors: Dr. Amanda Neuber, Temple University Honors Program and College of Education and Mr. Terrence Seales, College of Science and Technology Academic Advising and Professional Development at Temple University
- **Analytic skills:** Undertook an extensive literary review pertaining to non-traditional admission standards in higher education
 - **Identify and analyze:** Compiled and analyzed research focused on psychological factors to elucidate which might serve as the strongest predictor of success in tertiary education
 - Thesis Title: "Conscientiousness as the Most Predicative Psychological Affective Quality of Success in Higher Education Institutions"
- Temple University College of Science and Technology Student Advisor Award** April 2019
- Awarded for exceptionally serving students and maintaining high scholastic success
- Georgetown University Merit-Based Financial Aid Award** March 2019
- Awarded \$1000 per semester for undergraduate academic achievement
- Frances A. Velay Fellowship** May 2018 to August 2018
Principal Investigator: Dr. Eric Borguet, Department of Chemistry at Temple University, Philadelphia, PA
- Ten-week Full-Time Summer Research Project
 - Project Title: "Investigation of the sorption abilities of Metal-Organic Framework (MOF) materials using Temperature Programmed Desorption (TPD) thermal analysis in Ultra-High Vacuum conditions"
- Temple University In-State Transfer Applicant Scholarship** August 2015 to May 2018
- Awarded \$1000 per semester for having a cumulative GPA of 3.97 from previously attended university

CONFERENCES & SYMPOSIUMS ATTENDED

- Foreign Policy's Food Forever Solutions Summit**, The Gallup Building, Washington, D.C. December 2019
- First inaugural food security summit which discussed various issues plaguing the global food system
 - Sessions attended: The View from Congress with Representative Chellie Pingree, Congresswoman (D-ME); Food Security in A Carbon Constrained World; Armchair Conversation with Celebrity Food Chef Carla Hall; Biodiversity and Sustainable Food Systems; and Disrupting the Food Industry – Reimagining our Food
- Mini-Medical School**, Georgetown University Medical Center, Washington, D.C. October 2019 to December 2019
- Weekly seminars by Georgetown School of Medicine faculty on relevant basic and clinical science topics
 - Seminars attended: Neurosurgery; Cancer Prevention and Control Research: From Prevention through Survivorship; Benign Prostatic Hyperplasia & Management of Small Renal Masses; Palliative Care: Facts & Fears, Hopes & Worries; Pharmacology: Proceed with Caution; and Embryology and Histology of the Eye
- Migrant Health in Crisis**, Georgetown University, Washington, D.C. November 2019
- One-day symposium organized by the Center for Global Health Science and Security, the Department of Family Medicine at Georgetown University School of Medicine, and the Institute for the Study of International Migration at Georgetown University's School of Foreign Service
 - Sessions attended: Infectious Disease, Conflict, and Displacement: Focus on Africa and Refugee Healthcare in Host Countries: Focus on MENA
- The Symposium for Undergraduate Research & Creativity**, Gittis Student Center, Temple University April 2019
- Poster Title: "Spectroscopic and Thermal Analysis of Acetone and Isopropanol Interactions on a UiO-67 MOF under UHV"
 - Principal Investigator: Dr. Eric Borguet, Department of Chemistry, Temple University
 - Contributing Authors: Mikaela Boyanich, Isabella Goodenough, Venkata Swaroopa Datta Devulapalli, Dr. Melissandre Richard, Tian-Yi Luo, and Dr. Nathaniel L. Rosi
- 2018 Summer Research & Leadership Symposium**, Tuttleman Learning Center, Temple University August 2018
- Presentation Title: "Investigation of the sorption abilities of Metal-Organic Framework (MOF) materials using Temperature Programmed Desorption (TPD) thermal analysis in Ultra-High Vacuum conditions"
 - Principal Investigator: Dr. Eric Borguet, Department of Chemistry, Temple University
 - Contributing Authors: Mikaela Boyanich, Shaivya Choudhary, Isabella Goodenough, and Dr. Melissandre Richard
- Kurt J. Lesker University Workshop**, Science Education and Research Center, Temple University July 2018
- Beginners Guide to Residual Gas Analysis
 - Introduction to Vacuum Technology 2018
 - Introduction to Vacuum System Design
 - Vacuum Pumps for High and Ultra-High Vacuum Applications
- Research Data Management 101 Seminar**, College of Engineering, Temple University July 2018
- Discussed the requirements and current initiatives around data management, sharing, and reproducibility set forth by the NSF, NIH, publishers, and the broader scientific community
- TURF-CreWS**, Tuttleman Learning Center, Temple University April 2018
- Presentation Title: "Equity and Access in Higher-Education: Affective Qualities as Predictive Correlates of Success in Higher Education Institutions"
 - Advisor: Dr. Amanda Neuber, Temple University Honors Program and College of Education, Temple University
- Scientista Symposium**, Microsoft Headquarters, Times Square, New York City April 2018
- Innovation in STEM networking symposium for women in STEM fields
 - Workshops attended: Innovation in Non-Profit & Government Research; Closing the Confidence Gap; STEM Policy, Advocacy, and Law; and Tackling Imposter Syndrome in STEM

ACTIVITIES & LEADERSHIP POSITIONS

TUGradCountdown Ambassador , Temple University Office of Alumni Relations and Annual Giving	2018 to 2019
Founding Member and Secretary , Temple University Biology Journal Club	2018 to 2019
Temple University Honors Peer Mentor , Temple University Honors Program	2017 to 2019
Member , Temple Refugee Outreach	2017 to 2019
Gelfand Lecture Co-Chair , Phi Delta Epsilon Co-Ed International Medical Fraternity	2016 to 2018

VOLUNTEER EXPERIENCE

2020 Academy Ambassador , The New York Academy of Sciences	January 2020 to Present
<ul style="list-style-type: none">• Help highlight the importance of STEM education and build a more science-literate society through various social media platform posts	
Volunteer , Bright Hope Baptist Church Soup Kitchen	January 2016 to May 2018
<ul style="list-style-type: none">• Served disadvantaged members of the Northern Philadelphia community hot meals and beverages	
Temple Honors Appalachia , Prestonsburg, Kentucky	May 2016
<ul style="list-style-type: none">• Improved underprivileged communities through renovation of community buildings and family homes	
Philly Ultra-Fest Model , Sidney Kimmel Medical College at Thomas Jefferson University	March 2016
<ul style="list-style-type: none">• Live modeled for the demonstration of ultra-sound techniques to current medical students	
Pre-Medical Volunteer , Hospital of the University of Pennsylvania	January 2016 to May 2016
<ul style="list-style-type: none">• Attended to patient needs through collaboration with nurses and clinical assistants	

LINGUISTIC SKILLS

Elementary Fluency in Arabic, Written and Oral

Elementary Fluency in Spanish, Written and Oral