

EDUCATION & CERTIFICATIONS

University of Michigan, School of Public Health and College of Engineering		
Dual	Environmental Health Sciences and Scientific Computing	April 2021
P.h.D.	Advisor: Justin Colacino Dissertation: "Occupational pesticide exposure assessment and deep dive into mechanisms of carcinogenesis"	(expected)
The Department of Defense		
	Department of Defense Risk Communication Certified	2015
	'Secret' security clearance	2014
The University of Georgia, The College of Public Health		
M.P.H	Epidemiology, <i>Cum laude</i> Advisor: Mark Ebell Capstone Project: "Colorectal Cancer Prevention and Perceptions among Elderly African Americans residing in Northern Georgia"	2013
Bard College		
B.S.	<i>Honorary</i>	2011
Bard College at Simon's Rock		
B.A.	Major: Biological Sciences Minor: Cognitive Psychology Advisor: David Myers Thesis: "Health beneficial citrus terpenes, with a focus on citrus limonoids effect on cancer"	2011
A.A.	Liberal Science and Arts	2009

TECHNICAL SKILLS

Computational Methods	
Machine learning and predictive modeling of how chemical exposures cause epigenetic and genomic alteration	
Predictive and prescriptive analytics in STATA	
Datamining and big data management in SAS, SQL, and R	
Database development and management in SAP and Adobe	
Server communications using WinScP, Putty, and Python	
Data storage, sharing in Github	
Web development using Github pages, HTML, and C++	
Comprehensive reporting and data presentation skills using Tableau, Microsoft Excel (pivot charts and pivot tables), and PowerPoint Presentation	
Experimental Methods	
Computational toxicology, cell culturing techniques, and environmental epidemiology	
Qualitative and quantitative research methods	
Program evaluation, survey item development and meta-analysis skills	
Comprehensive biochemical laboratory skills including but not limited to PCR, gas and liquid chromatography, and microbe growth and analysis	
Human tissue cell culture and chemical exposure	
Husbandry, chemical exposure, surgery outcomes, and disease outcomes in mice	
Genetic alteration and method development in mouse knock-out	

FELLOWSHIPS & SCHOLARSHIPS

Rackham Merit Fellowship. The University of Michigan (\$60,000 per year for 3 years).	2018-2021
Riversville Fellow. Bard College at Simon's Rock (\$17,000 per year for 3 years).	2007-2011
Nancunan Saez Scholarship Recipient. Bard College at Simon's Rock (\$500).	2009-2011
Thompson Scholar. Bard College at Simon's Rock (\$1,000 for 2 years).	2009-2011
Hutchinson Scholar. Bard College at Simon's Rock (\$5,000 for 2 years).	2009-2011

PROFESSIONAL AFFILIATIONS

Bouchet Honor Society Member	2020 inductee
Society of Toxicology, student member	2019-present
Michigan Society of Toxicology, student member	2017-present
Consortium of Universities for Global Health (CUGH) High Income Country Student Member	2016-2018

RESEARCH & TRAVEL GRANTS	Forte, C.A. Rackham Research Travel Grants (\$2,000).	2018
	Forte, C.A. Environmental Toxicology and Epidemiology Program Fellow. NIH ETEP Training Grant (Grant# T32 ES007062). (\$60,000 for 1 year). <i>PI: Rita Loch Caruso</i>	2017-2018
	Forte, C.A. CSEAS Thai Studies Award Recipient (\$1,500).	2017
	Forte, C.A. Rackham Research Travel Grants (\$2,000).	2017
	Forte, C.A. "Occupational Pesticide Exposure of Informal Farmworkers in Northern Thailand". NIOSH ERC Pilot Project Research Training Grant Program (\$19,950). <i>PI: Stuart Batterman</i>	2016-2017
	Forte, C.A. NIOSH Education Research Center Fellow (Grant # T32 ES007062). (\$60,000 for 1 year). <i>PI: Stuart Batterman</i>	2016-2017
PUBLICATIONS	Thong T*, Forte C.A.* , Hill E, and Colacino J (2019). Environmental exposures, stem cells, and cancer. <i>Pharmacology and Toxicology</i> .	2019
	Smith, M. L., Colwell, B., Forté, C. A. , Pulczynski, J. C., & McKyer, E. L. J. (2015). Psychosocial correlates of smokeless tobacco use among Indiana adolescents. <i>Journal of Community Health</i> : 40 (2). . * - These authors contributed equally to this manuscript	2014
SUBMITTED MANUSCRIPTS	Forte, C.A. , Colacino, J., Polemi, K., Guytingco, A., Peraino, N.J., Jindaphong, S., Kaviya, T., Westrick, J., Neitzel, R., Nambunmee, K. (2019). Pesticide exposure and adverse health effects associated with farm work in Northern Thailand.	2020
MANUSCRIPTS IN PREPARATION	Forte, C.A. , Justin Colacino (2020). A comprehensive exposure assessment of pesticide exposure and mechanisms for breast cancer.	2020
	Forte, C.A. , Anagha Tapaswi, Nicholas Cemalovic, Justin Colacino (2020). Assessing mechanisms of carcinogenesis due to pesticide exposure.	
HONORS AND AWARDS	Bouchet Honor Society Member	2020-present
	2020 Outstanding Undergraduate Research Opportunity Program Mentor Award	2020
	Honors Convocation Celebration, <i>Student Speaker</i>	2010
CONFERENCE PRESENTATIONS	Forte, C.A. Pesticide exposure among N. Thailand Farmworkers. The Society of Toxicology Annual Meeting. March 3, 2019, Baltimore, MD, USA (Poster Presentation).	2019
	Forte, C.A. Nambunmee K, Guytingco A, Neitzel R, Colacino J. Pesticide exposure and health effects among N. Thailand Farmworkers. 23 rd Annual National Institute of Health Environmental Toxicology and Epidemiology Program. Research Symposium February 2, 2018, Ann Arbor, MI, USA (Poster Presentation).	2018
	Forte, C.A. Colacino J, Guytingco A, Neitzel R, Nambunmee K.. Pesticide exposure and health effects among N. Thailand Farmworkers. The National Institute of Occupational Safety and Health Education Research Center, Center for Occupational Health and Safety Engineering Conference at the University of Illinois Chicago. Research Symposium March 9-11, 2018, Chicago, IL, USA (Poster Presentation).	2018
	Forte, C.A. Nambunmee K, Guytingco A, Neitzel R, Colacino J. Pesticide exposure and health effects among N. Thailand Farmworkers. The University of Michigan Lifestage Environmental Exposures and Disease Center 2018 Environmental Statistics Day March 14, 2018, Ann Arbor, MI, USA (Poster Presentation).	2018
	Forte, C.A. Colacino J, Guytingco A, Neitzel R, Nambunmee K. Pesticide exposure among N. Thailand Farmworkers. The 9 th Annual Consortium of Universities for Global Health Conference March 15-18, 2018, New York, NY, USA (Poster Presentation).	2018
	Forte, C.A. Pesticide exposure among N. Thailand Farmworkers. The Michigan Society of Toxicology Annual Meeting. March 2017, Detroit, MI, USA (Student Speaker).	2017

CONFERENCES ATTENDED	Out in Sciences, Technology, Engineering and Mathematics Annual Conference, <i>Detroit, MI</i>	2019
	The Annual American Public Health Association (APHA) Meeting, <i>Atlanta, GA</i>	2018
RESEARCH EXPERIENCE	Doctoral Student and Fellow, <i>Environmental Health Sciences, The University of Michigan, Ann Arbor, MI ; PI: Justin Colacino</i>	2016-present
	<ul style="list-style-type: none"> Managed multiple projects focused on epigenetic alteration of human cancer sampling, which included culturing primary human tissue Assessed environmental chemical exposures among agriculture workers in Northern Thailand and the United States High throughput content imaging, experiment protocol development and machine learning using genomic data. 	
	Doctoral Student Researcher, <i>Data Library Sciences, The University of Michigan, Ann Arbor, MI ;PI: Rachel Woodbrook</i>	2019-2020
	<ul style="list-style-type: none"> Interviewed research subjects and disseminating a survey to assess how diversity scholars collect, manage, and disseminate data Consulted as a subject matter expert on ethical research practices, research fairness, and open data access Assisted in study design and developing the methods for data analysis and data toolkit creation Coded the UM Library Sciences github repository of data and github page using HTML and C++ 	
	Research Assistant <i>The University of Georgia Graduate School, Athens, GA</i>	2012-2013
	<ul style="list-style-type: none"> Analyzed and reported the risk factors associated with underrepresented minority attrition and completion of STEM doctoral programs according to student survey responses under the purview of the Council of Graduate Schools Oversaw contracts, grants, awards and cooperative agreements with full responsibility for carrying out all required monitoring and management duties 	
	Research Analyst <i>The University of Georgia College of Public Health, Athens, GA; PI: Mark Ebell</i>	2012
	<ul style="list-style-type: none"> Administered a pre and post intervention survey focused on colorectal cancer prevention amongst elderly African Americans residing in northeast Georgia using Epi Info to test the effectiveness of the intervention and inform quality improvement Completed an ANOVA, paired T-test, and presented the results using SAS, Microsoft Excel, and STATA 	
	Laboratory Assistant <i>Bard College at Simon's Rock, Great Barrington, MA; PI: David Myers</i>	2010-2011
	<ul style="list-style-type: none"> Developed isolation methods for the extraction of citrus limonoids and analyzed the antibiotic and anticancer effects using disk diffusion Organized, stocked, and oversaw laboratory maintenance by cleaning the laboratory, monitoring supply stock and ordering new materials 	
	Data Analyst and Program Evaluator <i>South Berkshire Community Coalition, Great Barrington, MA</i>	2009-2011
	<ul style="list-style-type: none"> Examined information pulled from the Massachusetts Youth Risk Behavior Surveillance System (YRBSS) in order to develop programs to prevent adolescent alcohol and drug use Assisted in the development and implementation of adolescent drug abuse interventions such as Massachusetts' first prescription drug take back program by providing event planning expertise and recruiting volunteers 	

**PROFESSIONAL
EXPERIENCE**

Deployment Health Epidemiologist <i>The US Department of Defense, Norfolk, VA</i> ; Supervisor: Christopher Rennix (ret.)	2014-2016
<ul style="list-style-type: none"> • Researched Post Traumatic Stress Disorder (PTSD) and sleep disorder predictors and symptoms amongst deployed sailors and marines in order to better inform Navy standards and procedures for prevention and treatment of combat related illness • Analyzed and disseminated key fleet health statistics to ensure command-wide understanding of the current deployed sailor and marine health status • Advancing the literature on behavioral health through the innovation and publishing of cornerstone military population health research 	
Pharmacoepidemiology Specialist <i>UCB Biosciences, Inc., Smyrna, GA</i> ; Supervisor: Dr. Eric Phillips	2013-2014
<ul style="list-style-type: none"> • Developed new company measures such as validated claims data algorithm and a benefit risk analysis brief through core company data sheets, meta-analysis, population-based health statistics and external automated databases • Served as expert in pharmacoepidemiological research as it pertains to autoimmune pharmaceuticals by leading research endeavors and providing guidance to other departments • Corresponded with other pharmaceutical companies to ensure product complain reporting, comprehensive social listening, and adverse event reporting 	
Clinical Analytics and Support Specialist <i>Athens Regional Medical Center, Athens, GA</i> ; Supervisor: CJ Hood	2012-2013
<ul style="list-style-type: none"> • Accrued, analyzed, and disseminated a community needs assessment focused on cancer disparity barriers which included creating tableau reports and dashboards for multiple departments and estimated appropriate study size for internal and external clients • Wrote comprehensive statistical and analytic reports from studies and continuing projects using national, state, and hospital surveillance systems 	

MEDIA FEATURES

Forte, C.A. (June 2020) Mental Health, Incarceration, and COVID-19 . The University of Michigan School of Public Health The Pursuit Blog.	2020
Forte, C.A. (March 2020). Earth Day at 50: Chanese Forte on Environmental Health Sciences . The University of Michigan Michigan Minds podcast.	
The University of Michigan School of Public Health. (October 2018). Research and Equity in Global Public Health . The Pursuit.	2018
Feature on @umichgradschool Instagram account for the #myrackhamsummer photo challenge	2017
Twitter handle takeover of the @umichstudents account	2017

MENTORED STUDENTS

Yamani Vinson, <i>Sexual and Gender Diversity in Public Health Mentoring Program, The University of Michigan</i>	2019-present
Nicholas Cemalovic, <i>UROP Research Program, The University of Michigan</i>	2019- present
Nia Willis, <i>UM School of Public Health Undergraduate Mentoring program, The University of Michigan</i>	2017-2018
Advisor, <i>Pre-professional student in Medicine and the Biological Sciences, Bard College at Simon's Rock</i>	2009-2011
Peer Advocate to Peer Advocate mentor, <i>Student housing and Life, Bard College at Simon's Rock</i>	2009-2011

TEACHING EXPERIENCES	Public Health Biology and Pathophysiology (PUBHLTH 370). Fall 2020 semester, Ann Arbor, MI, USA (Graduate Student Instructor). The University of Michigan: Online due to COVID19.	2020
	"Pesticide exposure among N. Thailand Farmworkers". Environmental Toxicants (ENV310) Course. The University of Michigan: Ann Arbor, MI, USA (Guest Lecturer).	2020
	"Professionalism in Public Health (PUBHLTH481)". The University of Michigan: Ann Arbor, MI, USA (Curriculum Consultant).	2019
	"Pesticide exposure among N. Thailand Farmworkers". Environmental Toxicants (ENV310) Course. The University of Michigan: Ann Arbor, MI, USA (Guest Lecturer).	2019
	Pesticide exposure among N. Thailand Farmworkers. Environmental Toxicants (ENV310) Course. The University of Michigan: Ann Arbor, MI, USA (Guest Lecturer).	2018
OUTREACH & COMMUNITY SERVICE	The University of Michigan Service Day Site Lead, <i>The University of Michigan School of Public Health, Ann Arbor, MI</i>	2019
	Mentor for young girls, <i>UpCenter Mentoring Program, Norfolk, VA</i>	2015-2016
	Student researcher and intern, <i>Volunteers in Medicine, Great Barrington, MA</i>	2007-2010
	Member and Event Organization, <i>Medical Reserve Corps New England, Great Barrington, MA</i>	
PROFESSIONAL SERVICE	UMSPH Environmental Health Services Faculty Search Committee	2019-2020
	Society of Toxicology (SOT) Pesticides Poster Chair	2019
	University of Michigan Environmental Toxicology and Epidemiology Program (ETEP) Annual Research Symposium Planning Committee Co-Chair	2018
	University of Michigan Environmental Toxicology and Epidemiology Program Annual Research Symposium Speaker Host	2017
	University of Michigan Environmental Toxicology and Epidemiology Program Annual Research Symposium Speaker Host	2017
UNIVERSITY OUTREACH & SERVICE	Forte, C.A. , Wolverine Pathways Academic Career Day. The Association of Multicultural Scientists. The University of Michigan, Ann Arbor, MI, USA (Presenter).	2020
	Forte, C.A. , UROP Career Development Presentations. The University of Michigan, Ann Arbor, MI, USA (Presenter).	2020
	The University of Michigan College of Engineering Student Recruiter, <i>The Annual Out in STEM Conference, Detroit, MI</i>	2019
	Admissions Ambassador, <i>The University of Michigan School of Public Health, Ann Arbor, MI</i>	2019-2020
	Forte, C.A. , UROP Graduate School Fair Panel. The University of Michigan, Ann Arbor, MI, USA (Panelist).	2019
	Forte C.A. , UROP Graduate School Panel Discussion. The University of Michigan, Ann Arbor, MI, USA (Panelist).	2018
	Co-founder and President of the UM SPH Sexual and Gender Diversity in Public Health (SGDPH), <i>The University of Michigan, Ann Arbor, MI</i>	2018-2020
	Board member of the Rackham Student Government (RSG), <i>The University of Michigan, Ann Arbor, MI</i>	2016-2017
	University of Michigan Academic Affairs Committee Member, <i>The University of Michigan, Ann Arbor, MI</i>	2016-2017
	Member of the Student Advocacy for Graduate Education (SAGE), <i>The University of Michigan, Ann Arbor, MI</i>	2016-2018
	Rackham Student Government, <i>Board Member, The University of Michigan, Ann Arbor, MI</i>	2017-2018
	Resident Assistant, <i>The University of Georgia, Graduate and International Student Housing, Athens, GA</i>	
	Resident Assistant and Peer Advocate, , <i>Bard College at Simon's Rock, Student Life Department, Great Barrington, MA</i>	2008-2011
	Student Liaison to Barton Biggs and the Riversville Foundation, <i>Bard College at Simon's Rock, Great Barrington, MA</i>	2010
	President and co-founder, The Pre-Medical Society, <i>Bard College at Simon's Rock, Great Barrington, MA</i>	2007-2009

