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Curriculum Vitae *(April 6, 2021)*
Thomas Carpenito, MA

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Education

2022	**Ph.D. Population Health**
	Northeastern University, Boston MA
2018	**M.A. Biostatistics**
	University of California, Berkeley CA
2013	**B.S. Behavioral Neuroscience**
	Northeastern University, Boston MA

Research

2018 – present	**Speech-Language, Pathology, and Audiology**, Department of Health Sciences
	Understanding non-nutritive suck over the course of infant development
2020 – present	**MISL,** Department of Health Sciences
	Developing a novel imputation technique using the Super Learner framework.
2020 - present	**Non-fatal Firearm Injury,** Department of Health Sciences
	Estimating the population distribution of non-fatal firearm injury intent in the United States.
2020 - present	**LAUNCH,** Department of Health Sciences
	Evaluates the efficacy of an innovative early childhood mental health intervention, Massachusetts Project LAUNCH
2020 - present	**Construct Secure,** Department of Physical Therapy, Movement & Rehabilitation Science
	Determining the optimal weights to help score a pre-qualification survey for assessing safety on commercial construction sites.
2018 - present	**PROTECT/CRECE,** Department of Civil and Environmental Engineering
	Investigation of environmental factors and their effects on preterm births in Puerto Rico
2020	**MOBS,** Network Science Institute
	Development of computational techniques for the simulation of the spatial spreading of infectious diseases (specifically, Covid-19) in Africa

Teaching Experience

Summer 2019, 2020, 2021	**Instructor of Record**, Northeastern University

	SLPA 6420: Practical Statistics for Speech Language Pathology and Audiology
Fall 2020	**Instructor of Record**, Northeastern University
	PHTH 2210: Foundations in Biostatistics
Spring 2018	**Teaching Assistant**, University of California
	PBTH 241: Categorical Data Analysis
Fall 2016,	**Teaching Assistant**, University of California
Spring 2017,	PBTH 142: Introduction to Probability and Statistics in Biology and Public
Fall 2017	Health

Guest Lectures / Panel Member

2021	**Preparing Doctoral Candidates for the World of Teaching** *(panel)*
2020	**The (not so) Hidden Pitfalls of Machine Learning** *(lecture)*
	PHTH 6400: Principles of Population Health Research I
2020	**Practical Considerations for the Inclusion of Race in an Analysis** *(lecture)*
	PHTH2350: Community and Public Health
2020	**A (gentle) Introduction to Machine Learning** *(lecture)*
	PHTH2210: Foundations in Biostatistics

Conferences

1. **Carpenito T**, Dennerlein J, Manjourides J. The Ecological Fallacy of Safety on Commercial Construction Sites. Poster at: American Public Health Association, 2020 Oct 24-28 ; virtual.
2. Zamechek L, Nayak S, **Carpenito T**, Molnar B. Predictors of Service Utilization of Families Enrolled in a Community-based Pediatric Mental Health Program. Poster at: American Public Health Association, 2020 Oct 24-28 ; virtual.
3. **Carpenito T**, Manjourides J. Multiple Imputation By Super Learning (MISL). Presentation at: Symposium on Data Science and Statistics, 2020 Jun 3-5 ; virtual.

Publications

1. Zimmerman E, **Carpenito T**, Martens A (2020) Changes in infant non-nutritive sucking throughout a suck sample at 3-months of age. PLoS ONE 15(7): e0235741. https://doi.org/10.1371/journal.pone.0235741
2. Manjourides J, Zimmerman E, Watkins D, **Carpenito T**, Vélez-Vega C, Huerta-Montañez G, Rosario Z, Ayala I, Vergara C, Feric Z, Suh HH, Gu AZ, Brown P, Cordero J, Meeker J, & Alshawabkeh A.(2020) Cohort Profile: Center for Research on Early Childhood Exposures in Puerto Rico (CRECE). BMJ Open, 10:e036389. doi: 10.1136/bmjopen-2019-036389.

Awards

2020	Academic Technology Scholars Program
2018	Outstanding Graduate Student Instructor Award, University of California

Services

2021   Abstract Reviewer for the American Public Health Association Conference (Big Data Visualization for Public Health Data and Student Poster sections)

2020   Session chair for *Machine Learning 5* at the Symposium on Data Science and Statistics, virtual

Professional Work Experience

2017 – 2018   **Statistical Programmer**, Vertex Pharmaceuticals
Boston Massachusetts

2015 – 2016   **Programmer Analyst / Database Administrator**, UCSF
San Francisco, California

2014 – 2015   **Software Developer**, Bulavard, Inc.
Mountain View, California