

**Katherine Baker, MS, MPH** (*she/they*)

111 Lena Street, Apt C-015, Ithaca, NY 14850 || kb739@cornell.edu || 262 385 7639

**Education:**

**Cornell University, Division of Nutritional Sciences**, Ithaca, NY, Aug. 2019-Aug. 2023

PhD Candidate in Community Nutrition

Minors: communication and human dimension/natural resource management

Dissertation: *Mixed methods assessment of nutrient-dense foods and food sustainability practices at bodegas and supermarkets in New York City*

**Columbia University, Mailman School of Public Health**, New York, NY, Sept. 2017-May 2019

MPH Environmental Health Science, Focus: Climate and Health

Capstone: Examining health impacts of extreme weather events due to climate change

completed with Natural Resource Defense Council

GPA: 3.904

**Columbia University, Institute of Human Nutrition**, New York, NY, Aug. 2015-Oct. 2016

MS Human Nutrition

Thesis: Using an online model to increase nutrition knowledge and self-efficacy in college-aged students

GPA: 3.777

**New York University (NYU)**, New York, NY, Sept. 2010-May 2014

BA in Psychology

Minors: Nutrition, Chemistry, Child & Adolescent Mental Health

GPA: 3.793, magna cum laude

**Awards/Honors:**

Magna Cum Laude Latin Honors graduate of NYU; Founder's Day Award (top-ranking Baccalaureate graduate) of NYU; Dean's List for Academics (NYU); Planet Forward Storyfest Award Winner, 2018

**Technical Skills:**

Data collection (Qualtrics), Data analysis (QGIS, R, STATA, Python), Google Analytics, Adobe Suite, Microsoft Suite, communication

**Research Experience:**

**Cornell University**, Ithaca, NY, Aug. 2019-present

*Graduate Research Assistant (PI: Dr. Roger Figueroa)*

- Used mixed methods (multivariate and mediation analysis, geospatial analysis and qualitative research methods, scoping review) for a dissertation project focused on creating a robust, mixed-methods food environment assessment of select neighborhoods in New York City, which included using quantitative methods to conduct analyses of large secondary datasets and use geospatial methods to assess urban food environments using both secondary and primary data sets ( $n=1,943$ ). I also used qualitative methods to develop interview guides and conduct semi-structured interview studies on food access in New York State ( $n=32$ ) and food retailer barriers and facilitators to offering nutrient-dense foods and food sustainability practices in New York City (target  $n=20$ ). NVIVO software being used to conduct thematic analysis to code transcripts.
- Wrote and co-wrote submitted grants to fund my research projects and associated travel.

- Managed a total of 9 undergraduate research assistants (up to 5 at a time) throughout the degree program. Met with the undergrad research assistants weekly and provided training focused on conducting systematic reviews, conducting qualitative surveys, analyzing qualitative data using thematic analysis in how to conduct systematic reviews, and conducting geospatial mapping using QGIS.
- Mentored 2 masters of public health (MPH) students and guided them with their capstone projects. Hosted regular meetings, delegated research tasks, incorporated feedback into existing projects, and provided feedback to students on capstone deliverables.
- Contributed to systematic reviews using Covidence including a review focused on Supplementary Nutrition Assistance Program Education (SNAP-Ed) for families in the United States and led a review focused on the existing knowledgebase of grocery store auditing tools that assess nutrient-dense food availability and food sustainability practices.
- Assisted on an intervention study with older adults in Ithaca, NY that used videochat to connect Meals on Wheels participants with other adults during meal times to reduce loneliness and increase food intake. Tasks included recruitment, writing technology and training protocols, participant technology training, conducting 24 hour recalls, and inputting dietary intake into ASA24 software for dietary assessment.
- Co-authored a review on food systems and aquaculture as part of my human dimension/natural resource management; focused on climate change and its projected impacts on these systems and food and nutrition security.

**Cornell University**, New York, NY, Jun. 2022-Aug. 2022 (fellow); Jun. 2022-present (affiliate)  
Action Research Collaborative (ARC) Summer Fellow (PIs: Drs. Tashara Leak and Neil Lewis)  
and ongoing ARC graduate affiliate

- Developed interview guide using capability, opportunity, motivation, and behavior (COM-B) framework to examine parent perception of Adapted Health 4 Life, a comprehensive weight-management program at Columbia University ( $n=60$ ).
- Drafted grant for \$4,000 to examine the feasibility of a 8 week intervention involving ( $n=30$  families).
- Contributed to a policy action-targeted secondary analysis focused on air pollution and food security in Queens, New York, in preparation for submission.
- Helped plan and facilitate a 2-day symposium for researchers, clinicians and community workers engaged in action research, public health, and health equity.
- As a post-fellowship affiliate, I engage in monthly meetings with other ARC faculty and fellows to discuss ongoing action focused on developing and sustaining equitable and sustainable research actions.

**Columbia University, Mailman School of Public Health**, New York, NY, Aug. 2018-May 2019  
*Research Assistant* (PIs: Carlos Dora of the World Health Organization, and Marta Schaaf and Terry McGovern of Columbia University Mailman School of Public Health)

- Conducted literature and policy reviews to examine existing legislation on air pollution worldwide.
- Worked to identify global gaps in air pollution law and implementation of laws.
- Contributed to program and legislation planning focused on a rights-based approach to food security.

**New York Presbyterian Hospital**, New York, NY, May 2018-Aug. 2018  
*Research Assistant*

- Contributed to literature review about parental nutrition and parenteral nutrition policies.

- Contributed to data analysis plan for a research project focused on parental nutrition policies in New York City nursing homes, and how these policies impacted health outcomes in patients.

**NYU Langone Child Studies Center**, New York, NY, Jan. 2011-Jun. 2013

*Undergraduate Research Assistant (PIs: Dr. Howard Abikoff, Dr. Richard Gallagher)*

- Received behavioral analysis training for coding childhood attention-deficit hyperactivity disorder (ADHD) and oppositional defiant disorder (ODD) symptoms in research settings. Coded recordings of behavioral testing for a large research study on (ADHD) and oppositional defiant disorder (ODD) in children.
- Assisted in participants assessments at baseline and post-intervention by setting up study materials and games and recording assessments.
- Managed participant family questions throughout the recruitment and ADHD assessment process.
- Worked with Dr. Gallagher to conduct an independent study and review on delayed gratification in children.

**Communication and Writing Experience:**

**Cornell University Knight Office Institute**, Ithaca, NY, May 2023-June 2023

*Facilitator, Write Together at Home program*

- Facilitated weekly writing strategy meetings and write-ins with groups of graduate students and postdoctoral fellows.
- Attended weekly staff training meetings and tutored students and postdoctoral fellows individually.

**Cornell University Knight Office Institute**, Ithaca, NY, Sept. 2020-May 2023

*Senior English Language Support Office Writing Tutor*

- Meet individually with multilingual graduate students and postdoctoral fellows for 1-2 hour sessions each week, totally 5 hours of tutoring per week.
- Provide guidance throughout the writing process, including brainstorming, literature review and synthesis, idea organization, grammar, clarity and flow.
- Participate in ongoing training for grammar, writing skills, and effective tutoring techniques.

**Columbia University, Mailman Office of Communication**, New York, NY, Jan. 2019-May 2019

*Student Writer*

- Interviewed Columbia Mailman Public Health research teams about their research for media pieces.
- Wrote press releases, media boiler points, and web-based articles for the Columbia Mailman Public Health website about public health research innovations and highlights across the institution.
- Created visuals and graphics about public health research updates from Columbia Mailman research staff for distribution across Columbia Mailman's social media channels (Twitter, Instagram), adhering to Americans Disability Act (ADA) compliance.

**Planet Forward**, New York, NY, Oct. 2017-Oct. 2021

*Media Correspondent*

- Created multimedia (visual, written, audio and video) pieces about climate change and human health, and solutions to climate change.

- Participated in trips to Alaska and California to interview local residents and experts about their experiences with climate change in their communities and shared their stories through additional media pieces. All media was shared online via Plant Forward's platforms.
- Worked with peer correspondents on story development and science communication through workshops and conferences.

**Recent publications:**

Figueroa R, **Baker K**, Capellan J, Pinheiro LC, Burd L, Lim J, Chiong R, Eboh R, Phillips E. Residential urban food environment profiles and diet outcomes among adults in Brooklyn, New York: a cross-sectional study. *Public Health Nutr.* 2022 Nov 17:1-9. doi: 10.1017/S1368980022002476. Epub ahead of print. PMID: 36384640.

Fiorella KJ, Okronipa H, **Baker K**, Heilpern S. Contemporary aquaculture: implications for human nutrition. *Curr Opin Biotechnol.* 2021;70:83-90. doi:10.1016/j.copbio.2020.11.014

**Baker K**, Figueroa R. Motivation, Attitudes, and Diet Quality Among US Parents and Adolescents. *Am J Health Behav.* 2021;45(1):125-137. doi: doi.org/10.5993/AJHB.45.1.10

**Publications under review:**

**Baker K**, Figueroa R, Capellan JA, Pinheiro LC, & Phillips E. Bodega-to-supermarket ratios and associations with diet and demographic characteristics in New York City. *Journal of Hunger and Environmental Nutrition.* 2022 (under review).

Baker K, Burd L, Figueroa R. Food retailer auditing tools for assessing nutrient-dense food availability and food sustainability: a scoping review. *Frontiers in Sustainable Food Systems.* 2023 (under review).

**Professional organization affiliations:**

Academy of Nutrition and Dietetics  
member, 2021-present

American Public Health Association  
member, Jun. 2020-Jun. 2020

Society for Behavioral Medicine  
member, Jun. 2020-Jun. 2020

**Professional conference presentations and posters:**

**Cornell Center for Health Equity Third Symposium**, New York, NY, Oct. 2022  
Title: "Bodega-to-supermarket ratios, diet and demographic characteristics in NYC"

**National Institute of Health Health Equity Conference 2021**, virtual, Sept. 2021  
Title and authors of poster: "A latent profile analysis of the food environment in the Brooklyn borough, NYC"; Figueroa R, **Baker K**, Chiong R, Capellan J, Pinheiro L, Burd L, Lim J, Eboh R, Phillips E.

- Poster award recipient for conference

**Society for Behavioral Medicine 42nd Annual Meeting**, virtual, Apr. 2021  
Title: "Motivation, Attitudes, and Diet Quality Among US Parents and Adolescents"

### **Funding Received:**

- Cornell Center for Health Equity pilot project grant (with Roger Figueroa)
  - Award amount: \$44,918
- Cornell Graduate School Student Travel Grant
  - Award amount: \$1,350

### **Teaching Experience:**

**Cornell University**, Ithaca, NY, Aug. 2022-Dec. 2022

*Course Assistant*, Public Health Communication

- Worked with a teaching team of two faculty members and another graduate student to deliver a graduate-level course focused on public health communication.
- Organized student-community-partner projects, wrote quiz questions, graded quizzes, and maintained organization of the course Canvas site.
- Met with students to assist them with course projects and content.
- Facilitated lab activities and group exercises in class.

**Cornell University**, Ithaca, NY, Jan. 2022-May 2022

*Graduate Teaching Assistant*, Nutrition and Disease online module

- Developed material for an online clinical nutrition course for medical and dietetic students.
- Wrote educational materials focused on clinical nutrition topics and nutritional management of disease via, developed quizzes and discussion questions, as well as answer keys.
- Assisted with instructional video development, including script drafting and video shoot preparation.

**Cornell University**, Division of Nutritional Sciences, Ithaca, NY, Aug. 2021-Dec. 2021

*Graduate Teaching Assistant*, NS1600 Introduction to Public Health

- Assisted with classroom technology and managing daily course logistics, including grading and maintaining the course Canvas page.
- Moderated group discussions and project work.
- Coordinated and moderated guest speaker panels.
- Worked one on one with students to support their final papers and projects, which focused on using COM-B to develop proposed interventions for public health problems.

**Cornell University**, Division of Nutritional Sciences, Ithaca, NY, Jan. 2021-May 2021

*Graduate Teaching Assistant*, NS4500 Public Health Nutrition

- Developed and graded course assignments.
- Hosted office hours and assisted students on assignments and course content via email.
- Managed 5 undergraduate teaching assistants with weekly meetings focused on grading, office hours, and effective ways to manage students.
- Wrote discussion questions and managed and graded discussion board posts via Canvas online course interface.

**Cornell University**, Division of Nutritional Sciences, Ithaca, NY, Aug. 2020-Dec. 2020

*Graduate Teaching Assistant*, NS4510 Nutrition and Disease

- Managed technology for online students, including Canvas course interface.
- Wrote exam and case study questions and answer keys, and graded these assignments.
- Hosted weekly case study discussion groups with groups of students, guiding them through course case studies, and answering content and problem-solving strategies.
- Hosted weekly office hours to help students with course material.

**Cornell University**, Division of Nutritional Sciences, Ithaca, NY, Jan. 2020-May 2020  
*Graduate Teaching Assistant*, NS4500 Public Health Nutrition

- Attended lectures for attendance and course administration assistance.
- Hosted office hours and assisted students with course content and assignments via email.
- Worked with the teaching team during the US outbreak of COVID-to switch course delivery method from in-person to online, rewriting select assignments and managing technology for online course administration.
- Managed 6 undergraduate teaching assistants with weekly meetings focused on grading, office hours, and effective ways to manage students.  
Wrote discussion questions and managed and graded discussion board posts via Canvas online course interface.

**Cornell University**, Division of Nutritional Sciences, Ithaca, NY, Aug. 2019-Dec. 2019  
*Graduate Teaching Assistant*, NS4600 Explanations in Global Public Health

- Provided ongoing feedback for undergraduate public health students through a semester-long theory-of-change public health projects based on their capstone experiences.
- Graded weekly assignments and final projects.
- Worked with the teaching team to develop and provide feedback for a final presentation competition.

**Columbia University, Mailman School of Public Health**, Environmental Health Science, New York, NY, Jan. 2019-May 2019

*Graduate Teaching Assistant*, P8311 Basic and Applied Nutritional Science: Emerging Global Issues

- Managed online course interface, Canvas, including uploading documents and assignments.
- Moderated in-course discussions and case studies.
- Provided feedback for and graded student essays, presentations and homework.

**Columbia University in the City of New York**, New York, NY, Jul. 2018-May 2019

*Teaching Assistant, Food Policy & Public Health*

- Graded weekly homework assignment and was responsible for other course administrative tasks, including attendance.
- Hosted office hours for students to help them understand course content and complete assignments.
- Provided ongoing feedback for student projects and papers.

**Marquette University**, Educational Opportunity Program, Milwaukee, WI, Jun. 2017-Aug. 2017  
*Chemistry Instructor, Educational Opportunity Program for rising college students*

- Delivered lectures on chemistry, planned, prepared for, and led chemistry labs for students to complete their summer project, which was focused on the development of a hand lotion.
- Helped students prepare projects for a symposium competition at the project culmination and attended and judged the competition.

**Lectures Given:**

<b>Lecture Title or Lab Title/Topic</b>	<b>Course</b>	<b>Department and University</b>	<b>Date</b>
Risk Communication <i>(facilitated lab; flipped classroom design)</i>	VTPEH 6184 - Public health Communication <i>(graduate course)</i>	Public Health, Cornell University	Fall 2022
Nutrition and Climate Change	NS 1150 - Nutrition, Health & Society <i>(undergraduate course)</i>	Division of Nutritional Sciences, Cornell University	Fall 2022
Narrative, Emotion, Storytelling <i>(facilitated lab; flipped classroom design)</i>	VTPEH 6184 - Public health Communication <i>(graduate course)</i>	Public Health, Cornell University	Fall 2022
Mental Health: A Public Health Problem	NS 1600 - Introduction to Public Health <i>(undergraduate course)</i>	Division of Nutritional Sciences, Cornell University	Fall 2022
Nutrition and Climate Change	NS 1150 - Nutrition, Health & Society <i>(undergraduate course)</i>	Division of Nutritional Sciences, Cornell University	Fall 2021
Mental Health: A Public Health Problem	NS 1600 - Introduction to Public Health <i>(undergraduate course)</i>	Division of Nutritional Sciences, Cornell University	Fall 2021
Public health policy development	NS 4500 - Public Health Nutrition <i>(undergraduate course)</i>	Division of Nutritional Sciences, Cornell University	Spring 2021
Public health policy analysis	NS 4500 - Public Health Nutrition <i>(undergraduate course)</i>	Division of Nutritional Sciences, Cornell University	Spring 2021
Introduction to epidemiology and the importance of epidemiological research in nutrition	P8311 - Basic and Applied Nutritional Science: Emerging Global Issues <i>(graduate course)</i>	Environmental Health Science, Columbia University Mailman School of Public Health	Spring 2019
Food safety and public health	UN11100: Food, Public Health, and Public Policy <i>(undergraduate course)</i>	Ecology, Evolution, & Environmental Biology, Columbia University	Fall 2018
Lab topic overview and instruction (16 sessions)	EOP Chemistry <i>(college preparatory)</i>	Educational Opportunity Program, Marquette University	Summer 2017

**Teaching-related Trainings and Certificates:**

**Cornell University**, Ithaca, NY, Aug. 2019-present

*GET SET Workshops*

- Participated in workshops including *Active Learning Strategies*, *Case-Study Resources and Feedback*, *Teaching & Learning in a Diverse Classroom*, *Strategies for Moving Online*, *Using Zoom for Online Teaching*, *Using Panopto for Creating and Sharing Videos Online*, *Leading Effective Discussions Online with Zoom*, and *The TA Role in Cultivating an Inclusive Classroom*. Acquired training and skills in classroom management, teaching techniques, technology for improved course experience, and inclusive classroom environments.

**Cornell University**, Ithaca, NY, Jan. 2022-present

*Teaching Portfolio Program*

- Participated in ongoing training for teaching innovation and course planning.

**Cornell University**, Ithaca, NY, Nov. 2019

*Course Design Institute*

- Attended the institute focused on course design, as well as syllabus creation, evaluation of student learning and strategies to encourage student engagement.

**Cornell University**, Ithaca, NY, Sept. 2019

*GET SET University-wide Teaching Conference*

- Participated in a conference focused on evidence-based teaching methodology.

### **Leadership & Volunteer Involvement:**

**Cornell Nutrition Graduate Student Organization (NGSO)**, Ithaca, NY, Aug. 2019-present

*Secretary (2020-2021), Social Media Chair (2019-2020)*

- Organized NSGO meetings and sent out meeting minutes to nutrition graduate students.
- Assisted in planning and organized professional development and social events for nutrition graduate students.
- Managed social media pages for the organization (Twitter, Instagram).

**The Trevor Project**, Aug. 2022-present

*Crisis line volunteer*

- Trained crisis line volunteer for TrevorChat line for LGBTQ+ youth.

**Cornell Center for the Study of Inequity**, Ithaca, NY, Sept. 2020-present

*Graduate student affiliate*

- Attended seminars about understanding inequality patterns, causes, and consequences of social and economic inequality.

**Cornell Pelvic Pain Association**, Ithaca, NY Oct. 2021-present

*Member*

- Delivered pelvic pain education materials to the Cornell student body.
- Worked on Cornell-level policy advocacy to improve available healthcare options for Cornell University students with pelvic pain conditions.

**IHN Alumni Association**, New York, NY, July 2020-present

*Alumni volunteer*

- Conducted menu assessment for New York City schools.

**Columbia University Students for Integrative Medicine at Mailman**, New York, NY, Aug 2018-May 2019

*Vice President of Communications*

- Managed social media and outreach about programming focused on mental health, environmental health, and nutrition.
- Helped plan and advertise events including guest speakers and panels for Columbia Mailman students.

**Columbia University Food Waste Committee**, New York, NY, Sept. 2018-May 2019

*Member*

- Managed compost bins in the Environmental Health Science department at Columbia Mailman School of Public Health.
- Advocated for program expansion throughout Columbia University.

**Columbia University Students for Environmental Action**, New York, NY, Sept. 2017-May 2019

*Member*

- Received training in climate health policy and communication and attended networking events for individuals interested in working in climate change.

**Columbia University Students for Food Policy and Obesity Prevention (FPOP)**, New York, NY, Sept. 2017-May 2019

*Member*

- Provided health-promoting food choices and nutrition and obesity prevention educational materials on campus to Columbia students.

**VA Medical Center**, Milwaukee, WI, Jan. 2015 – Aug. 2015

*Dietetics volunteer*

- Administered food and nutrition patient satisfaction surveys and worked on meal delivery and plate waste assessment.

**The Bubble Foundation**, New York, NY, Jan. 2014-May 2014

*Volunteer Nutrition and Healthy Cooking Educator*

- Conducted nutrition education and healthy cooking classes in New York City schools.

**NYU Child and Adolescent Mental Health Club**, Sept. 2010-May 2013

*Officer*

- Worked with four other officers to provide social events, training events and networking opportunities for NYU undergraduates interested in child and adolescent mental health.

**NYU Peer Health Exchange**, Oct. 2011-May 2012

*Volunteer, member*

- Delivered health education materials to peers in New York City.

**SAGE NYC, New York, NY**, Jan. 2011-May 2012

*Social events planner volunteer*

- Planned and ran events for SAGE NYC, committed to serving LGBTQ+ older adults.

**Other Certifications/Trainings:**

- The Op-Ed project, Sept. 2022
- ServSafe Manager Food Safety Certification, Feb. 2022
- New York State Citizen Public Health Leaders Training Program, Apr. 2020
- Collaborative Institutional Training Institute, Aug. 2020
- Climate Leadership Reality Corps member, Jul. 2020
- eCornell: SNAP-Ed Making the Healthy Choice the Easy Choice, Apr. 2020
- FDA FSMA Food Quality and Safety Certified Individual, Dec. 2016
- Neuroanatomical Dissection Continuing Education Course, Marquette University, July 2013