

CURRICULUM VITAE
Wei Perng, PhD MPH

1. CURRENT POSITION

Associate Professor (with tenure), Department of Epidemiology, Colorado School of Public Health
Deputy Director, Lifecourse Epidemiology of Adiposity and Diabetes (LEAD) Center
University of Colorado Anschutz Medical Campus
1890 N. Revere Court, Campus Box F426, Room 1014 Aurora CO, 80045
E-mail: Wei.Perng@CUAnschutz.edu

Adjunct Associate Professor, Visiting Instructional Lecturer, Department of Nutritional Sciences
University of Michigan School of Public Health

2. EDUCATION

2008 University of Michigan, Brain Behavior and Cognitive Science, BS
2010 University of Michigan School of Public Health, Epidemiology, MPH
2013 University of Michigan School of Public Health, Epidemiology, PhD
2013-2014 Harvard Medical School, Postdoctoral fellowship, Perinatal Epidemiology
2014-2015 Michigan State University, T-32 Postdoctoral fellowship, Perinatal Epidemiology

3. ACADEMIC APPOINTMENTS AND POSITIONS

University of Michigan School of Public Health, Ann Arbor, MI

2015 - 2017 Assistant Professor, Department of Nutritional Sciences and Epidemiology
2018 – Present Adjunct Associate Professor, Department of Nutritional Sciences
2022 - 2024 Adjunct Instructional Lecturer (for teaching purposes), Department of Nutritional Sciences

University of Colorado Anschutz Medical Campus, Aurora, CO

2018 - 2023 Assistant Professor, Department of Epidemiology, Colorado School of Public Health
2018 - 2021 Assistant Director of 'Omics Science, Lifecourse Epidemiology of Adiposity and Diabetes (LEAD) Center
2021 - 2023 Associate Director of Research Training and Education, Lifecourse Epidemiology of Adiposity and Diabetes (LEAD) Center
2023 - Present Associate Professor (with tenure), Department of Epidemiology
2023 - Present Deputy Director, Lifecourse Epidemiology of Adiposity and Diabetes (LEAD) Center

4. HONORS AND AWARDS

2013 DeVries Award for Excellence in International Health Award, University of Michigan School of Public Health
2014 Early Nutrition New Investigator Award at the Early Nutrition Conference
2014 Obesity Research Interest Section Research Competition 1st place winner
2019 Society for Pediatric and Perinatal Epidemiologic Research (SPER) Rising Star Award
2020 University of Colorado Denver Chancellor's Teaching Recognition Award
2022 Colorado School of Public Health Faculty Excellence in Equity Award
2024 American Diabetes Association Michaela Modan Award
2025 Delta Omega Public Health Honor Society, elected member
2025 University of Colorado Nutrition Obesity Research Core (NORC) Excellence in Mentorship Award

5. PROFESSIONAL AFFILIATIONS

2010 - Present Society for Pediatric and Perinatal Epidemiologic Research (SPER)
2010 - Present Society for Epidemiologic Research (SER)
2012 - Present American Public Health Association (APHA)
2016 - 2019 Developmental Origins of Health and Disease U.S. Affiliate Chapter
2018 - 2019 American Heart Association (AHA)
2018 - Present American Diabetes Association (ADA)
2021 - Present American College of Epidemiology (ACE; elected membership)

6. PROFESSIONAL LEADERSHIP AND SERVICE

Department of Nutritional Sciences at the University of Michigan:

Leadership appointments

2016-2018 Co-Director of the Diet & Nutrition Core, Children's Environmental Health Center

Department of Epidemiology and the LEAD Center:

Leadership appointments

2018 - 2021 Assistant Director of Omics Science, LEAD Center
2020 - Present Chair, Department of Epidemiology Council for Health Promotion and Representation
2021 - 2023 Associate Director of Research Training and Education, LEAD Center
2023 - Present Deputy Director, LEAD Center

Leadership on committees

2020 - Present Chair, Department of Council for Health Promotion and Representation
2021 Chair, Epidemiology Department Tenure Track Faculty Search Committee
2022 Chair, Epidemiology Department Tenure Track Faculty Search Committee
2025 - Present Chair, Doctoral Preliminary Exam Committee

Member of committees

2018 - 2019 Member, MPH Admissions Committee
2023 - Present Member, PhD/MS Admissions Committee
2024 - 2025 Member, PhD and DrPH Preliminary Exam Committee

Colorado School of Public Health:

Leadership on committees

2024 Chair, Latino Research and Policy Center Search Committee
2025-Present Chair, Epidemiology Department Doctoral Preliminary Exam Committee

Membership on committees:

2018 Member, Tobacco Prevention & Control Faculty Search Committee
2020 Member, CoSPH Scholarship Committee
2020 Member, Public Health Practice Committee
2022 Member, Dean's Search Committee
2023 Member, Departmental Appointments, Promotion & Tenure Committee (DAPTCO)
2023 - Present Member, Achieving Equity in Appointments, Promotion & Tenure Sub-Committee
2024 Member, Department of Environmental and Occupational Health (EOH) Chair Search Committee

University of Colorado Anschutz Medical Campus:

- 2021 - 2023 Member, External Advisory Board, Department of Emergency Medicine Diversity Committee
2020 - Present Member, Inclusive Excellence Committee

National:

Leadership on committees:

- 2020 - Present Co-Chair, American Diabetes Association (ADA) Precision Medicine In Diabetes Consensus Report, Precision Prognostics Working Group for Gestational Diabetes Mellitus
2022 - 2023 Associate Chair, Environmental Influences on Child Health Outcomes (ECHO) Program Publications Committee
2023 – 2024 Interim (appointed) Steering Committee, Environmental Influences on Child Health Outcomes (ECHO) Program
2024 - Present Elected Steering Committee, Environmental Influences on Child Health Outcomes (ECHO) Program
2024 Co-Chair, Diversity, Equity, Inclusivity, and Accessibility (DEIA) Committee, Environmental Influences on Child Health Outcomes (ECHO) Program
2024 - Present Co-Chair, Environmental Influences on Child Health Outcomes (ECHO) Program Publications Committee

Membership on committees:

- 2021 - 2023 Member, Society for Pediatric and Perinatal Epidemiologic Research (SPER) Planning Committee
2020 - 2022 Member, Environmental Influences on Child Health Outcomes (ECHO) Program Publications Committee
2024 – 2025 Member, Ancillary Studies Committee for the Environmental Influences on Child Health Outcomes (ECHO) Program

International:

- 2017 - 2021 Member, Canadian Healthy Infant Longitudinal Development (CHILD) Study, Nutrition and Dietary Data Collection Working Group
2018 - Present Steering Committee Member, Consortium of Metabolomics Studies (COMETS)
2020 - Present Precision Medicine in Diabetes (PMDI) Consensus Report Working Group
2025 – Present Member, Executive Committee, Consortium of Metabolomics Studies (COMETS)

7. REVIEW, REFEREE AND EDITORIAL ACTIVITIES

Service on editorial boards:

- 2018 - Present Associate Editor, *Pediatric Obesity*
2021 - Present Associate Editor, *Annals of Epidemiology*

Guest editor for special issues:

- 2019 Guest Editor of Special Issue, “Exposure to Endocrine-Disrupting Chemicals and Cardiometabolic disease: A Developmental Origins Approach” in *Frontiers of Public Health*: <https://www.frontiersin.org/research-topics/6888/exposure-to-endocrine-disrupting-chemicals-and-cardiometabolic-disease-a-developmental-origins-appro>
2022 Guest Editor of Special Issue, “Determinants, mechanisms, and consequences of childhood obesity” in *Metabolites*: https://www.mdpi.com/journal/metabolites/special_issues/Obesity_Childhood

2025 Guest Editor of Theme Issue for *Philosophical Transactions of the Royal Society B*, "Causal inference: An interdisciplinary exchange of methodological approaches to improve validity and reproducibility of ecology and evolutionary biology research."

Grant review committees and study sections:

2016 Reviewer, Michigan Regional Comprehensive Metabolomics Core Pilot & Feasibility Grant
2017 Reviewer, University of Michigan Momentum Center Pilot & Feasibility Grant
2019 Reviewer, Southern California Environmental Health Sciences Center Pilot Project Program
2021 Reviewer, Medical Research Council (MRC), U.K. Research and Innovation (UKRI), Future Leaders Fellowship
2022 *Ad hoc* member, National Institutes of Health (NIH) Child Health and Development (CHHD)-M1 Health, Behavior, and Context Study Section
2022 Reviewer, Medical Research Council (MRC), U.K. Research and Innovation (UKRI), MRC Research Grant Program
2022 External reviewer, National Institute of Environmental Health Sciences (NIEHS), Intramural Research Application
2023 *Ad hoc* member, National Institutes of Health (NIH) Analytics and Statistics for Population Research Panel B (ASPB) Study Section.
2023 *Ad hoc* member, Child Health, and Human Development Panel M (CHHDM) Study Section.
2023 Reviewer, Colorado Clinical Translational Science Institute (CCTSI) KL2 Scholarship Program
2024 Standing Member, Child Health and Human Development Panel M (CHHDM) Study Section
2024 Reviewer, the Frontier Competitive Research Programme (CRP) of the National Research Foundation (NRF) of Singapore
2024 Reviewer, the American Diabetes Association (ADA) Postdoctoral Fellowship
2024 Reviewer, the Institute of Translational Health Sciences (ITHS) Pilot Study for New Interdisciplinary Academic Partnership at the University of Washington
2025 Reviewer, the American Diabetes Association (ADA) Postdoctoral Fellowship
2025 Reviewer, Stanford Diabetes Research Center Pilot & Feasibility Grant Program
2026 Reviewer, Study Section for the California Initiative to Advance Precision Medicine (CIAPM), California Health and Human Services Agency.

***Ad hoc* reviewer for journals:**

Academic Pediatrics; American Journal of Epidemiology; American Journal of Clinical Nutrition; Annals of Epidemiology; BMC Research Notes; BMC Medicine; BMC Public Health; Diabetes and Metabolism; Diabetes Care; Diabetologia; Diabetic Medicine; Epigenetics; Environmental Health Perspectives; Environment International; Environmental Research; Epidemiology; Hypertension; International Journal of Obesity; International Journal of Epidemiology, Pediatric Obesity; JAMA; JAMA Pediatrics; Journal of Adolescent Health; Journal of the American College of Nutrition; Journal of Developmental Origins of Health and Disease; Journal of Endocrinology; Journal of Epidemiology and Community Health; Journal of Nutrition; Journal of Pediatrics; Metabolites; Metabolomics; Obesity (Silver Spring); Pediatric & Perinatal Epidemiology; Public Health Nutrition

Service for professional societies and scientific meetings:

Scientific program director:

2017, 2018 Asian and Pacific Islander Caucus (APIC) for the American Public Health Association (APHA)

Session chair:

- 2017 Session chair, “*AAPI Epidemiology, Climate Changes, and Environmental Health.*” American Public Health Association (APHA) November 2nd – 9th Atlanta, Georgia.
- 2017 Session chair, “*Obesity and diabetes in pregnancy.*” U.S. Developmental Origins of Health and Disease (DOHaD) meeting September 25th – 27th. Detroit, Michigan.
- 2018 Session chair, “*Health education, health communications, and community-based interventions among AA&PIs.*” American Public Health Association (APHA) November 10th – 14th. San Diego, California.
- 2018 Session chair, “*Innovative research to examine AA&PI health.*” American Public Health Association (APHA) November 10th – 14th. San Diego, California
- 2018 Session chair, “*The intersection of mental and physical health among AA&PIs and AA&PI communities.*” American Public Health Association (APHA) November 10th – 14th. San Diego, California.
- 2020 Session chair, “*Obstetric Health.*” Society for Pediatric and Perinatal Epidemiology (SPER) Annual Meeting. December 15th. Virtual meeting.
- 2021 Session chair, “*Social determinants of Birth outcomes.*” Society for Pediatric and Perinatal Epidemiology (SPER) Annual Meeting. June 21st. Virtual meeting.

Abstract reviewer for scientific meetings:

Experimental Biology 2019; The Obesity Society 2019; Society for Epidemiologic Research (SER) Annual Meeting, 2019; Society for Pediatric & Perinatal Epidemiologic Research (SPER) Annual Meeting, 2019, 2020, 2021; American Public Health Association (APHA) Annual Meeting, 2016, 2017, 2018, 2019

8. INVITED LECTURES, PRESENTATIONS, AND WORKSHOPS

Local/regional:

Seminars:

- 2019 University of Colorado Boulder Department of Physiology Colloquium. *Lifecourse Epidemiology: It’s more than skin-deep.* September 16th. Boulder, CO, USA.
- 2020 Perinatal-Neonatal Research Group Weekly Conference, Department of Pediatrics, School of Medicine, University of Colorado Anschutz Medical Campus. *Use of directed acyclic graphs (DAGs) to streamline the research process.* November 12th. Aurora, CO, USA.
- 2021 Department of Endocrinology Research Seminar. *Testing conceptual models from lifecourse epidemiology: sensitive period or accumulation of risk?* April 28th. Aurora, CO, USA.
- 2022 Division of Biomedical Informatics & Personalized Medicine Research Seminar. *Origins of metabolic disease in youth: Moving metabolomics research towards clinical application.* May 4th, Aurora, CO, USA.
- 2022 Lifecourse Epidemiology of Adiposity and Diabetes (LEAD) Seminar Series. *‘Omics + lifecourse epidemiology: merging two paradigms to advance precision prevention of metabolic risk in youth.* September 19th, Aurora, CO, USA.
- 2022 Center for Health, Work, and the Environment (CHWE) Visiting Scholar Series. *‘Omics for exposure assessment and disease prevention: Insights from studies of metabolic risk in youth.* October 26th. Aurora, CO.
- 2023 Panelist and session moderator for the Colorado School of Public Health Research Exchange. *Assessing structural racism in public health research.* October 6th, Aurora, CO.
- 2024 Workshop organizer and speaker for the Colorado School of Public Health Research Exchange. Career development grants for early-career scientists: K99/R00 and K01 101. October 11th, Aurora, CO.

- 2025 University of Colorado School of Medicine, T32 program in Pediatric Nutrition. *Precision medicine in public health – balancing ethics with well-being*. September 23rd, 2025. Aurora, CO.
- 2025 Department of Pediatrics, Section of Nutrition Seminar Series. *Mapping the metabolic maze: is there a way out?* October 23rd, 2025. Aurora, CO.

Guest lectures for classes:

- 2020 Colorado School of Public Health, Department of Epidemiology, EPID 6612 (Analytical Epidemiology; course instructor: Angela Lee-Winn), *Causal inference: lessons from lifecourse epidemiology*. April 1st.
- 2020 Colorado School of Public Health Department of Epidemiology, EPID 7605 (Research Methods; course instructor: Kathy James), *Introduction to DAGs*. February 6th.
- 2020 Colorado School of Public Health, Department of Epidemiology, EPID 7631 (Advanced Epidemiology 1; course instructor: Anne Starling), *Directed acyclic graphs (DAGs)*. September 28th.
- 2021 University of Michigan School of Public Health, Department of Nutritional Sciences, NUTR 677 (Physical Growth and Maturation; course instructor: Karen Peterson), *Making causal inference from observational studies*. November 23rd.
- 2021 University of Colorado, School of Public Affairs, PUAD 8070 (Quantitative Methods II; instructor: Geoffrey Propheter), *Causal diagrams for development of research hypotheses*. March 2nd.
- 2021 University of Cincinnati, Department of Epidemiology, BE-7085 & PH-7085 (Pediatric and Perinatal Epidemiology; course instructor: Kelly Brunst), *Early development of metabolic disorders*. November 17th.
- 2022 University of Colorado, School of Public Affairs, PUAD 8070 (Quantitative Methods II; course instructor: Geoffrey Propheter), *Causal inference in policy research*. March 30th.
- 2022 University of Colorado Anschutz School of Medicine, PMED 6210 (MultiOmic Approaches to Personalized Medicine; course instructors: Colleen Julia and Ivana Yang), *Omics science in the study of developmental origins of health and disease (DOHaD)*. Pre-recorded guest lecture for Fall Semester 2022.
- 2023 University of Colorado Boulder Integrative Physiology Colloquium. *Lifecourse epidemiology & omics science: merging two paradigms to advance metabolic disease prevention in youth*. Boulder, CO, February 1st, 2023
- 2024 University of Colorado Denver School of Public Affairs, PUAD 8070 (Quantitative Methods II; course instructor: Geoffrey Propheter), *Epidemiology and causal inference in policy research*. April 15th.
- 2025 University of Colorado Denver School of Public Affairs, PUAD 8070 (Quantitative Methods II; course instructor: Geoffrey Propheter), *Application of causal inference methods for public policy contexts*. April 22nd.

National:

Invited talks, seminars, and workshops:

- 2018 SEARCH For Diabetes in Youth Steering Committee Meeting 2018. *Metabolomics, obesity, and nutrition*. November 14th. Denver, CO, USA.
- 2019 Environmental influences on Child Health Outcomes (ECHO) Face-to-Face Meeting 2019. *The utility of metabolomics in ECHO*. April 9th. Washington D.C.
- 2019 Nutritional Epidemiology Research Interest Section (RIS), American Society for Nutrition 2019. *Metabolomic biomarkers of the relationship between sugar-sweetened beverage (SSB) intake and metabolic risk in the ELEMENT Cohort*. June 10th. Baltimore, MD, USA.

- 2021 ELEMENT Research Seminar, University of Michigan School of Public Health and the Instituto Nacional de Salud Pública. *Causal diagrams in the study of DOHaD*. February 23rd. Virtual seminar.
- 2021 University of Washington Epidemiology Winter Seminar Series. *Let the question derive the methods: testing conceptual models from lifecourse epidemiology*. March 9th. Virtual seminar.
- 2021 National Academy of Science, Engineering and Medicine, Methods Workshop on Assessing Food and Dietary Supplement Intakes in Pregnant Women and Children 2-11 years. *Best practices for dietary assessment in children age 6-11 years*. May 19th. Virtual workshop.
- 2021 Wayne State University, Department of Pharmacology Seminar Series. *Data are profoundly dumb: let the question drive the approach to obtain the answer*. October 29th. Virtual seminar.
- 2022 American Diabetes Association Annual Meeting, Invited symposium presentation. *Use of metabolomics to assess metabolic risk in offspring exposed to diabetes in utero: Steps toward clinical application*. June 5th. New Orleans, LA, USA.
- 2022 National Institute of Environmental Health Sciences (NIEHS) Workshop on the modifying impact of nutrition on environmental risk factors for autism spectrum disorder. *You are what you eat... and metabolize: biomarkers of dietary intake and how metabolomics can help*. June 22nd. Webinar.
- 2022 Environmental Influences on Child Health Outcomes (ECHO) Consortium Face-to-Face Meeting. Moving towards Multi-Omics of Developmental Origins of Health and Disease (MO DOHaD). October 19th. Bethesda, MD.
- 2023 Environmental Influences on Child Health Outcomes (ECHO) Discovery Series. Understanding the natural history of cardiovascular health. November 8th, 2023. Virtual.
- 2023 University of Michigan School of Public Health, Nutritional Sciences Seminar Series. Preventing metabolic disease in youth: how can we do better? Ann Arbor, MI. February 17th, 2023.
- 2023 University of North Carolina Chapel Hill Environmental/Occupational Epidemiology Seminar Series. *Advancing metabolic disease prevention in youth through omics*. December 1st, 2023.
- 2024 University of Nebraska Lincoln. Center for Prevention of Obesity Disease Workshop. *Nutrition, Precision Medicine, Omics, and Data Science (NPODS)*. April 15th, 2024.
- 2024 University of Washington Nutrition Obesity Research Core. *In utero overnutrition and obesity and diabetes... Oh my! Chasing the yellow brick road to precision prevention*. December 12th, 2024.
- 2025 Diabetes Prevention Project Outcomes Study (DPPOS) Grand Rounds. *The DEFINE-T2D Consortium*. September 23rd, 2025.
- 2025 Brigham and Women's Hospital, Department of Neonatology. *Use of high-dimensional biological data on understanding who, what, when, and how to prevent metabolic disease*. Boston, MA. November 3rd, 2025.
- 2025 American Heart Association (AHA) Invited Faculty Talk, Henning Lecture: Preventing Cardiometabolic Disease in Youth and Compressing CMD with Ageing. *Cardiometabolic risk in youth and implications on CV morbidity (the younger age part of the equation)*. November 10th, 2025
- 2026 University of Southern California Endocrinology Grand Rounds. *Mapping the metabolic maze: is precision medicine the way out?* February 17th, 2026
- 2026 Grand Rounds Seminar, Brown University / Care New England, Department of Obstetrics and Neonatology. *How can omics science inform on the earliest origins of obesity and metabolic risk?* March 11th, 2026
- 2026 US Developmental Origins of Health and Disease (DOHaD) Society Annual Meeting. *Preventing Cardiovascular Morbidity: Focusing on the Early-Life Window*. July 9th, 2026. Raleigh, NC.

2026 American Society for Preventive Cardiology (ASPC) 2026 Congress on CVD prevention. *Childhood obesity and diabetes*. August 1st, 2026. Pheonix, AZ

International:

- 2021 Precision Medicine in Diabetes Initiative(PDMI). *Long-term consequences of exposure to gestational diabetes in utero: use of 'omics*. April 9th. Virtual (due to COVID).
- 2022 COMETs Consortium Scientific Talk. *Metabolomics predictors of dysglycemia in two youth cohorts: leveraging the COMETs consortium*. July 21st. Virtual seminar.
- 2022 Universidad Iberoamericana, Applied Nutrition Program, *Metabolomics for the advancement of nutrition research*. November 28th. Mexico City, MX.
- 2022 Universidad Iberoamericana, Applied Nutrition Program. *Directed acyclic graphs and causal inference concepts*. November 29th. Mexico City, MX.

9. TEACHING RECORD

Courses Developed and Taught:

University of Colorado

Colorado School of Public Health:

- 2019 – Present EPID 7632 - Advanced Epidemiology II (3 credits)
Role: Developed and taught as primary instructor (7 semesters; ongoing)
- 2024 PUBH 6991 – Capstone Integration (1 credit)
Role: Facilitate development of oral and written deliverables for students’ capstone projects as primary instructor (1 semester; ongoing)

Biostatistics Epidemiology, and Research Design (BERD) Program:

- 2023 - Present Causal Inference in Epidemiology (certificate program short course)
Role: Developed and taught as primary instructor (3 terms; ongoing)

University of Michigan School of Public Health

- 2015 - 2017 NUTR 689 - Advanced Topics in Nutrition Research (2-credits)
Role: Primary instructor (5 semesters total)
- 2022- 2024 NUTR 596 - Precision Nutrition and 'Omics (3-credits)
Role: Developed and taught as primary instructor (1 semester; ongoing)

MPH Academic Advising:

- 2018 - 2020 Kathleen Angell, Phuong Banh
- 2019 - 2021 Sierra Svend, Ryan Patrick, Rachel Haley, Jesse Carlson
- 2020 - 2022 Nikita Tovey, Janeese Porterfield, Jyothi Lokandham (international), Kelsey Coogan, Cody Berkobien
- 2021 - 2023 Allison Haynes, Samuel Messenger, Ndiebnsa Agbormbai, Jesse Carlson, Brianna Hoffman
- 2022 - 2024 Madeline Wrolson-Gaunt, Amelia Staniszewski
- 2023 – 2025 Madeline Karr, Margaret Howard, Sarah Conway
- 2024 – 2026 Rebecca Blackwood
- 2025 - 2027 Melanie Salvador, Olalere Oshin

MPH Capstone Preceptor (mentorship role):

University of Michigan School of Public Health:

2015 - 2017 Aarohee Fulay, MPH

Colorado School of Public Health:

2018 - 2019 Kathleen Angell, MPH
2021 - 2022 Valerie Swanson, MPH (student from University of Nevada Reno)
2021 - 2022 Kaitlin E. Buck, MPH
2022 - 2023 Aisha Alkandari, MPH
2023 - 2024 Allison Cubbon, MPH; Cyrus Gidfar, MPH
2024 – 2025 Makayla Moran, MPH

MS Thesis mentorship:

Colorado School of Public Health

2022-2024 Jonathan VanHawkins, MS
• *My role:* Co-mentor
• *Mentee's current position:* PhD student in the Department of Statistics, Oregon State University, Corvallis, OR

University of Michigan School of Public Health:

2015 - 2017 Maymona Al-Hinai, PhD, MS, RDN
• *My role:* Primary mentor
• *Mentee's current position:* Assistant Professor of Food Science and Nutrition, Sultan Qaboos University, al-Seeb, Oman
2016 - 2018 Molly Mulcahy, PhD, MS
• *My role:* Primary mentor
• *Mentee's current position:* Postdoctoral trainee, Department of Endocrinology, Diabetes and Metabolism, University of Wisconsin School of Medicine and Public Health, Madison, WI

PhD and MD mentorship:

2013 - 2014 Jessica R. Walter, MD, Medical student at Harvard Medical School, 2013-2014
Role: Research mentor on project "Timing of gestational weight gain and long-term metabolic risk in Project Viva."
• *My role:* Research project mentor
• *Mentee's current position:* OB/GYN at Northwestern Medicine, Chicago, IL
2019 - 2022 Satvinder Dhaliwal, PhD, at the Colorado School of Public Health, Department of Epidemiology
• *My role:* Primary mentor, TL1 fellowship mentor
• *Mentee's current position:* Research Scientist at the California Department of Public Health, Fresno, CO
2020 - 2022 Teresa Buckner, PhD candidate at the Colorado School of Public Health, Department of Epidemiology
• *My role:* Dissertation committee member
• *Mentee's current position:* Assistant Professor of Kinesiology, Nutrition, & Dietetics at the University of Northern Colorado, Greeley, CO
2020 - 2023 William Patterson, PhD candidate at University of Colorado Boulder, Department of Integrated Physiology
• *My Role:* Dissertation committee member and F31 mentorship team member

- 2020 – 2023

 - *Mentee's current position:* Postdoctoral fellow, Department of Biomedical Informatics, University of Colorado Anschutz, Aurora, CO

Leslie Barnard, DrPH at the Colorado School of Public Health, Department of Epidemiology

 - *My Role:* Dissertation committee member and F31 mentorship team member
 - *Mentee's current position:* Research Assistant Professor of Epidemiology, Colorado School of Public Health, University of Colorado Anschutz, Aurora, CO
- 2021 – 2023

Kylie Harrall, PhD candidate at the Colorado School of Public Health, Department of Epidemiology

 - *My Role:* Dissertation Committee Chair
 - *Mentee's current position:* Assistant Professor of Health Outcomes and Biomedical Informatics, University of Florida College of Medicine, Gainesville, FL
- 2022 – 2025

Alyssa Beck, PhD at the Colorado School of Public Health, Department of Epidemiology

 - *My Role:* Dissertation Committee Chair
 - *Mentee's current position:* Data Scientist III, University of Wisconsin School of Medicine and Public Health, Madison, WI
- 2023 – Present

Dorah Labatte, DrPH candidate in the Department of Epidemiology, Colorado School of Public Health, Aurora, CO

 - *My role:* Primary mentor
- 2023 – Present

Gabriella Mayne, PhD candidate at the University of Colorado Denver, Health and Behavioral Sciences Program

 - *My role:* Primary mentor
- 2024 – Present

Alice White, PhD candidate the Department of Epidemiology at the Colorado School of Public Health

 - *My role:* Dissertation committee chair
- 2024 – Present

Kathryn Helfrich, PhD candidate in the Department of Epidemiology at the Colorado School of Public Health

Role: Dissertation committee chair
- 2024 – Present

Madeline Farron, PhD candidate in the Department of Epidemiology at the Colorado School of Public Health

 - *My role:* Dissertation committee chair
- 2024 – Present

Ariana Haidari, PhD candidate in the Department of Nutritional Sciences at the University of Michigan School of Public Health

 - *My role:* F31 mentorship team
- 2025 – Present

Julie Long, PhD candidate in the Department of Epidemiology at the Colorado School of Public Health

 - *My role:* Primary mentor
- 2026 – Present

Kerry Plunkett, PhD candidate in the Department of Epidemiology, Colorado School of Public Health, Aurora, CO

 - *My role:* Dissertation committee chair
- Incoming,
Fall 2026

Kyle Salmon, MSPH, PhD student in the Department of Epidemiology, Colorado School of Public Health, Aurora, CO, USA

 - *My role:* Primary mentor
- Incoming,
Fall 2026

Anna Ostrow MPH, PhD student in the Department of Epidemiology, Colorado School of Public Health, Aurora, CO, USA

My role: Primary mentor

Postdoctoral mentorship:

University of Michigan:

2016 - 2018 Lindsay Ellsworth, MD, Pediatric endocrinology fellow at University of Michigan Medical School

Role: Scholarship Oversight Committee member and research mentor on project, “*Infant metabolism and gestational endocrinopathies study*”

- *My role*: Scholarship oversight committee member
- *Mentee’s current position*: Assistant Professor of Neonatal-Perinatal Medicine, University of Michigan School of Medicine, Ann Arbor, MI

Colorado School of Public Health:

- 2019 - 2023 Ellen C. Francis, PhD, Postdoctoral fellow, LEAD Center and Department of Epidemiology
Role: K99/R00 Primary Mentor “*Characterizing metabolic variability during pregnancy to understand pathways of in-utero overnutrition: an integrative analysis of metabolomics and lifestyle data*” (funded February 2022); primary mentor on the T32 Perinatal Biology fellowship 2019 – 2022
- *My role*: Primary mentor and K99/R00 mentor
 - *Mentee’s current position*: Assistant Professor of Biostatistics and Epidemiology, Rutgers School of Public Health, Newark, NJ
- 2020 - Present Catherine C. Cohen, PhD, Research Associate, LEAD Center and Department of Pediatric Nutrition, School of Medicine
- *My role*: Scholarship oversight committee member
 - *Mentee’s current position*: Assistant Professor of Pediatric Nutrition, School of Medicine, University of Colorado Anschutz, Aurora, CO
- 2023 - Present Curtis Tilves, PhD, Research Associate, LEAD Center and Department of Epidemiology
- *My role*: American Heart Association (AHA) Career Development Award mentorship team
 - *Mentee’s current position*: Research Associate, Lifecourse Epidemiology of Adiposity and Diabetes (LEAD) Center, Department of Epidemiology, Colorado School of Public Health, Aurora, CO, University of Colorado Anschutz, Aurora, CO

Harvard Medical School:

- 2019 - 2022 Diana C. Soria, PhD, MSc, Department of Population Medicine, Harvard Medical School
- *My role*: MD research project co-mentor
 - *Mentee’s current position*: Research Scientist, Diabetes in Pregnancy Program, Massachusetts General Hospital, Boston, MA

10. RESEARCH RECORD

Active:

R01DK132042 (PI: Hu, Perng, Staiano) \$3,703,103
NIH/NIDDK 09/01/2025 – 08/31/2030

Metal mixtures, epigenome, adiposity and cardiometabolic risk across early life

This project seeks to investigate associations of exposure to toxic and nutritious minerals during the prenatal period and early childhood on epigenome-wide DNA methylation patterns and development of obesity among youth in four pediatric cohorts.

Role: MPI, subcontract PI

1OT2OD040445-01 (NIH Autism Data Science Initiative) \$2,028,527
NIH Autism Data Science Initiative 09/29/2025-09/28/2027

Diet and the exposome in autism: Discovering complex interactions with diet in autism etiology and variability

This project seeks to examine the role of diet in combination with other prenatal risk factors for autism, including environmental chemical exposures, maternal metabolic conditions during pregnancy, and the broader prenatal exposome, using data from the large US Environmental influences on Child Health Outcomes (ECHO) consortium. In addition, potential pathways linking exposures to outcomes, using metabolomics data, and the role of child diet in autism and its co-occurring conditions and trait variability, will also be examined.

Role: Subcontract PI, Co-I

R01HL176997 (PI: Mueller and Moore) \$2,028,527
NIH/NHLBI 09/01/2025-08/31/2030

Impact of pregnancy microbiomes on maternal and child cardiovascular health in a racially and ethnically diverse cohort.

This project seeks to characterize maternal microbiomes to better understand its role in shaping offspring cardiometabolic health in the Healthy Start study.

Role: Co-I

ADA-7-22-ICTSPM-08 - Supplement (PI: Perng) \$82,850
American Diabetes Association 07/01/2024 – 06/30/2025

A multi-omics approach to identifying youth and young adults at high risk of early-onset type 2 diabetes

This supplement supports the original parent grant by generating untargeted metabolomics profiling data for young adults at risk of developing early-onset type 2 diabetes.

Role: PI

U01DK013212 (MPIs: Kechris, Lange, Perng, Yang) \$7,133,050
NIH/NIDDK 9/1/2024-8/31/2029

Subtyping Core for Research on the Etiology of Type 2 Diabetes (SCORE-T2D).

This project seeks to capitalize on the pre-existing infrastructure for multi-site analysis and study coordination at the University of Colorado Anschutz Medical Campus, the investigative team will establish the Subtyping Core for Research on the Etiology of Type 2 Diabetes (SCORE-T2D) biostatistics research center. SCORE-T2D will work with the Cohort Sites and NIDDK to employ multi-level, multi-dimensional approaches to characterize heterogeneity in type 2 diabetes in the Consortium. Establishment of SCORE-T2D and completion of the proposed goals will result in a broadly applicable framework for identifying type 2 diabetes subtypes and forge new research opportunities for effective precision interventions to prevent, reroute the clinical course, and optimize long-term prognosis of diabetes in diverse populations.

Role: MPI

UG3/UH3OD023248 (PI: Bekelman, Perng, and Dabelea) \$11,316,276
NIH/OD 09/01/2023 – 08/31/2030

Environmental Influences on Child Health Outcomes – the Colorado ECHO Pediatric Cohort

This project will identify early-life patterns of structural, physical, and chemical exposures during pregnancy and early childhood that predict a clustering of health outcomes through adolescence.

Role: MPI

R01HD112751 (PI: Belfort and Perng) \$4,240,756
NIH/NICHD 07/01/2023 – 06/30/2028

Infant diet and cardiometabolic risk among children born preterm.

This project seeks to assess the metabolic consequences of a targeted protein and energy fortification of human milk vs. standard diet during the neonatal hospitalization period among infants born before 32 gestational weeks.

Role: MPI, subcontract PI

U01DK134981 (PI: Dabelea and Perng) \$3,887,146
NIH/NIDDK 2/01/2023 – 11/31/2027

Understanding the Pathophysiology of Type 2 Diabetes in Navajo youth.

This project will recruit 400 high-risk American Indian youth into a nation-wide consortium to study the pathophysiology of youth-onset type 2 diabetes.

Role: MPI

ADA-7-22-ICTSPM-08 (PI: Perng) \$598,419
American Diabetes Association 07/01/2022 – 06/30/2026

A multi-omics approach to identifying youth and young adults at high risk of early-onset type 2 diabetes

This project seeks to characterize glucose and insulin trajectories from childhood through young adulthood, and develop novel multi-omics prediction algorithms for early-onset type 2 diabetes.

Role: PI

Pending:

R01HL160629 (MPIs: Perng and Aris) \$4,988,322
NIH/NHLBI 07/01/2026 – 08/30/2031

The early-life neighborhood environment and cardiovascular health from infancy through adolescence in three U.S. pediatric cohorts.

The objective of this project is to characterize cardiovascular trajectories from infancy through the adolescent transition and characterize the interplay between social and biological risk factors in maintenance of cardiovascular health among diverse youth.

Role: MPI (contact)

Completed:

AB Nexus (PI: Perng and Alderete) \$50,000
AB Nexus Program 12/1/2022-11/30/2024

Role of the gut microbiota in the pathogenesis of early-onset type 2 diabetes

This proposal will characterize the gut microbiota in 300 young-adults to study its involvement in the pathogenesis of type 2 diabetes.

Role: Contact PI

R01HD096032 (PI: Oken and Chavarro) \$2,434,201
NIH/NICHD 07/10/2019 – 04/30/2024

A lifecourse approach to women's cardiometabolic and bone health: from fertility to perimenopause

This proposal investigates associations of subfertility with body composition, cardiometabolic, and bone health during the perimenopausal transition across 15 years of follow-up.

Role: Co-I, Subcontract PI

U2COD023375 (PI: Smith) \$82,620
Duke University 09/01/21 – 08/31/23

ECHO OIF Cycle 5: Neighborhood opportunities and disparities in child health outcomes: a nationwide U.S. multi-cohort study

The main objective is to examine the extent to which neighborhood environments could contribute to health inequalities in children.

Role: Co-I

K99 HD108272-01 (PI: Francis) \$185,115
NIH/NICHD 02/01/2022 – 01/31/2024

Characterizing metabolic variability during pregnancy to understand pathways of in-utero overnutrition: an integrative analysis of metabolomics and lifestyle data

This pathway to independence award seeks to identify distinct maternal metabolic phenotypes during pregnancy and identify molecular pathways underlying developmental overnutrition in offspring.

Role: Primary mentor

R01HD034568 (PI: Oken) \$3,624,198
NIH/NICHD 02/01/2017 – 01/31/2023

Pre- and peri-natal predictors of childhood obesity

The objective of this award is to continue collecting anthropometric, metabolic, psychosocial, neurocognitive, and dietary characteristics among offspring in Project Viva through late adolescence.

Role: Subcontract PI

KL2-TR002534 (PI: Perng) \$442,417
Colorado Clinical and Translational Sciences Institute 02/01/20 – 01/30/23

Biomarkers and mechanisms of NAFLD and T2D pathogenesis in two adolescent cohorts

The project aims to gain insight into shared mechanistic pathways of NAFLD and type 2 diabetes using endotoxin biomarkers and metabolomics.

Role: PI

Child Health Exposure Analysis Resource (CHEAR) Grant (PI: Perng) N/A (award covers assay costs)
Project 2016-1431

Metabolic consequences of in utero and peripubertal toxicant-diet exposures

This project examined associations of toxicant mixtures during gestation, early adolescence, and late adolescence with metabolic risk factors across adolescence.

Role: PI

R24ES028502 (MPIs: Peterson, Song) \$1,684,369
NIH/NIEHS 09/30/2017 – 12/30/2018

E3Gen: Multigenerational effects of toxicant exposures on life course health and neurocognitive outcomes in the ELEMENT birth cohorts.

This award supports cohort infrastructure and continued data collection of mothers and their children, and to enroll the third generation of the ELEMENT cohorts.

Role: Co-I (**Due to an institution change, I became a consultant for 7/1/2018 – 8/31/2022*)

1UG3OD023251-01 (PI: Alshwabkeh A) \$1,240,428
NIH 09/21/2016 – 08/31/2018

Environmental Influences on Child Health Outcomes in Puerto Rico (ECHO-PRO)

ECHO-PRO will study the impact of environmental pollutants and modifying factors on birth outcomes, obesity, neurodevelopment, and respiratory development in an underserved population.

Role: Co-I

Michigan Center for Diabetes Translational Research Pilot & Feasibility Grant \$20,000
NIH 2P30-DK020572 02/01/2016 – 06/31/2017

Title: A prospective study of metabolomic profiles and glycemia in U.S. and Mexican children

The objective of this proposal is to identify and characterize metabolite clusters associated with development of insulin resistance during the pubertal transition.

Role: PI

Michigan Nutrition Obesity Research Center Pilot & Feasibility Grant \$25,000
NIH P30 DK089503 MNORC 09/02/2015 – 08/31/2016

Title: Metabolomic profiles and development of metabolic risk in U.S. and Mexican children

The objective of this proposal is to identify and characterize metabolite clusters associated with development of metabolic syndrome components during the pubertal transition.

Role: PI

Michigan Institute for Clinical & Health Research Pilot & Feasibility Grant \$25,000
UL1TR000433 9/02/2015 – 08/31/2016

Title: Metabolomic profiles and development of metabolic risk in U.S. and Mexican children

The objective of this proposal is to identify and characterize metabolite clusters associated with development of metabolic syndrome components during the pubertal transition.

Role: PI

The Michigan Life Stage Environmental Exposures and Disease Pilot Program \$5,000
P30 M-LEEaD (PI: Peterson) 01/01/16 – 03/31/16

Title: Are Sex Differences in Effects of Early Obesogen Exposures on Metabolic Outcomes in Adolescence Mediated by Genome-wide DNA Methylation?

The objectives are identify differentially methylated regions of the genome and metabolite profiles during peripuberty following prenatal exposure to metals.

Role: Co-I

11. BIBLIOGRAPHY

Papers published in peer-reviewed journal articles

* Denotes student or mentee whom I either directly mentored or provided substantial feedback in the planning and implementation of the paper

± Denotes co-first authorship or co-senior authorship

Original research papers (total: 166):

1. Dombkowski KJ, Lamarand K, Dong S, **Perng W**, Clark SJ. Using Medicaid claims to identify children with asthma. *Journal of Public Health Management and Practice* 2012; 18(3):196-203. PMID: 22473110.
2. **Perng W**, Cnattingius S, Iliadou A, Villamor E. Perinatal characteristics and risk of polio among Swedish twins. *Perinatal and Paediatric Epidemiology* 2012; 26(3): 218-225. PMID: 22471681.
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5. Shroff M, **Perng W**, Baylin A, Mora-Plazas M, Marin, C, Villamor E. Adherence to a snacking dietary pattern and soda intake are related to the development of adiposity in school-age children. *Public Health Nutrition* 2013; 24:1-7. PMID: 23701749.
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7. Perng P, **Perng W**, Ngoma T, Kahesa C, Mwaislage J, Merajver SD, Soliman AS. Promoters and barriers to cervical cancer screening in a rural setting in Tanzania. *International Journal of Gynaecology and Obstetrics* 2013; 123(3):221-225. PMID: 24095307.
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10. Walter JR*, **Perng W**, Kleinman KP, Rich-Edwards JW, Oken E. Early gestational weight gain is associated with weight change, waist circumference, and systolic blood pressure in a large cohort. *American Journal of Obstetrics & Gynecology* 2014; 212(4):499.e1-12. PMID: 25446696.
11. **Perng W**, Rifas-Shiman SL, Rich-Edwards JW, Stuebe A, Oken E. Inflammation and weight gain in reproductive-aged women. *Annals of Human Biology* 2014; 43(1):91-95. PMID: 25510294.
12. **Perng W**, Gillman MW, Mantzoros CS, Oken E. A prospective study of maternal prenatal weight and offspring cardiometabolic health in mid-childhood. *Annals of Epidemiology* 2014; 24(11):793-800. PMID: 25263237.
13. **Perng W**, Gillman MW, Fleisch AF, Michalek R, Watkins SM, Isganiatis E, Patti ME, Oken E. Metabolomic profiles and childhood obesity. *Obesity (Silver Spring)* 2015; 22(12):2570-2578. PMID: 25251340.
14. **Perng W**[‡], Laubach Z[‡], Lombardo M, Murdock C, and Foufopoulos J. Determinants of parental care in Mountain white-crowned sparrows (*Zonotrichia leucophrys oriantha*). *The Auk* 2015; 132(4):893-902.
15. **Perng W**, Villamor E, Marin C, Mora-Plazas M, Baylin A. Alpha-linolenic acid (ALA) is inversely related to development of adiposity in Colombian schoolchildren. *European Journal of Clinical Nutrition* 2015; 69(2):167-172. PMID: 25271016.
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* Denotes student or mentee whom I directly mentored

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17. Francis EC*, Dabelea D, Shankar K, **Perng W**. Maternal diet quality during pregnancy is associated with biomarkers of metabolic risk among male offspring. Society for Pediatric and Perinatal Epidemiology (SPER) 2021. Virtual meeting.
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19. **Perng W**, Hivert MF, Michelotti G, Oken E, and Dabelea D. Metabolomics predictors of dysglycemia in two youth cohorts: EPOCH and Project Viva. European Diabetes Epidemiology Group (EDEG) 2022. Crete, Greece.
20. **Perng W**, Friedman JE, Janssen RC, Glueck DH, and Dabelea D. Endotoxin biomarkers are associated with adiposity and cardiometabolic risk across 5 years of follow-up in youth. Society of Pediatric and Perinatal Epidemiologic Research (SPER) 2022. Chicago, IL, USA.
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23. Soria-Contreras DC, **Perng W**, Rifas-Shiman SL, Minguez-Alarcon L, Hivert MF, Shifren J, Oken E, Chavarro JE. Associations of hypertensive disorders of pregnancy and gestational diabetes mellitus with menopausal symptoms at midlife in Project Viva. Society of Pediatric and Perinatal Epidemiologic Research (SPER) 2022. Chicago, IL, USA.
24. Soria-Contreras DC, Aris IM, Rifas-Shiman SL, **Perng W**, Hivert MF, Chavarro JE, and Oken E. Reproductive characteristics and change in weight and body composition. The Obesity Society 2022. San Diego, CA.
25. Francis EC, Dabelea D, Boyle KE, Jansson T, **Perng W**. Maternal diet quality is associated with placental proteins in the placental insulin/ growth factor, environmental stress, inflammation, and mTOR signaling pathways: The Healthy Start ECHO Cohort. Society for Reproductive Investigation 2022. Denver, CO
26. Francis EC*, Dabelea D, Kechris K, Jansson T, **Perng W**. Biomarker Clustering Identifies Metabolic Profiles in Pregnant Women More Strongly Associated with Offspring Adiposity Than Conventional Childhood Obesity Risk Factors. Society for Reproductive Investigation 70th Annual Meeting. Friday, March 24th, 2023.
27. **Perng W**, Aris IM, Younoszai N, Mueller NT, Sauder KA, and Dabelea D. Perinatal correlates of cardiovascular health during early childhood: the Healthy Start Study. Society for Pediatric and Perinatal Epidemiology (SPER) 2023. Portland, OR, USA.
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Poster presentations

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30. Labatte D*, Rifas-Shiman SL, Hurt KJ, Hivert MF, Oken E, and **Perng W**. *Beyond pain relief: prenatal acetaminophen use and birth outcomes*. Xavier University's Health Disparities Conference (XULA) 2026. New Orleans, LA.
31. Mayne G*, Hurt KJ, Yeatman S, Klawitter J, Tracer D, Christians U, Dabelea D, **Perng W**. *Allopregnanolone as a Biomarker for Psychosocial Distress in Pregnancy*. Society for Reproductive Investigation (SRI) 2026. San Juan, Puerto Rico.
32. Mayne G*, Hurt KJ, Yeatman S, Klawitter J, Tracer D, Christians U, Dabelea D, **Perng W**. *Embodied Stress and Adaptive Plasticity: Allopregnanolone in Human Pregnancy*. American Association of Biological Anthropologists (AABA). 2026. Denver, CO.
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