**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](mailto:Wei.Perng@CUAnschutz.edu)

Adjunct Associate Professor, Visiting Instructional Lecturer, Department of Nutritional Sciences

University of Michigan School of Public Health

**2. Education**

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| --- | --- |
| 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**

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| 2015 - 2017 | Research Assistant Professor, Department of Nutritional Sciences and Epidemiology |
| 2018 - | Adjunct Associate Professor, Department of Nutritional Sciences |
| 2022 - | Adjunct Instructional Lecturer, Department of Nutritional Sciences |

**University of Colorado Anschutz Medical Campus, Aurora, CO**

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| 2018 - 2023 | Assistant Professor, Department of Epidemiology, Colorado School of Public Health |
| 2018 - 2022 | Assistant Director of ‘Omics Science, Lifecourse Epidemiology of Adiposity and Diabetes (LEAD) Center |
| 2022 - | Associate Director of Research Training and Education, Lifecourse Epidemiology of Adiposity and Diabetes (LEAD) Center |
| 2023 - | Associate Professor (with tenure), Department of Epidemiology |
| 2024- | Deputy Director, Lifecourse Epidemiology of Adiposity and Diabetes (LEAD) Center |

**4. Honors and awards**

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| 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 Diversity, Equity, and Inclusion (DEI) Award |

**5. Professional Affiliations**

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| 2010 - Present | Society for Pediatric and Perinatal Epidemiologic Research (SPER) |
| 2010 - 2015 | Society for Epidemiologic Research (SER) |
| 2012 - 2018 | 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 Epidemiology and the LEAD Center**:

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| 2018 - 2022 | Assistant Director of Omics Research, LEAD Center |
| 2018 - 2019 | Member, MPH Admissions Committee |
| 2020 - Present | Chair, Health Equity Council |
| 2021 - 2022 | Chair, Epidemiology Department Tenure Track Faculty Search Committee |
| 2021 | Member, Epidemiology Department Research Track Faculty Search Committee |
| 2022 - Present | Associate Director of Research Training and Education, LEAD Center |
| 2023 - 2024 | Member, PhD/MS Admissions Committee |
| 2024 – 2026 | Member, PhD and DrPH Preliminary Exam Committee |

**Colorado School of Public Health:**

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| 2018 | Member, Tobacco Prevention & Control Faculty Search Committee |
| 2020 | Member, Scholarship Committee |
| 2020 | Member, Public Health Practice Committee |
| 2022 | Member, Dean’s Search Committee |
| 2023 - Present | Member, Departmental Appointments, Promotion & Tenure Committee (DAPTCO) |
| 2023 - 2024 | Member, Department of Environmental and Occupational Health (EOH) Chair Search Committee |
| 2024 | Chair, Latino Research and Policy Center Search Committee |

**University of Colorado Denver Anschutz Medical Campus**:

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| 2021 - Present | Member, External Advisory Board, Department of Emergency Medicine Diversity Committee |

**National**:

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| 2020 - 2022 | Member, Environmental Influences on Child Health Outcomes (ECHO) Program Publications Committee |
| 2020 - Present | Co-Chair, American Diabetes Association (ADA) Precision Medicine In Diabetes Consensus Report, Precision Prognostics Working Group for Gestational Diabetes Mellitus |
| 2021 - 2023 | Member, Society for Pediatric and Perinatal Epidemiologic Research (SPER) Planning Committee |
| 2022 - 2023 | Associate Chair, Environmental Influences on Child Health Outcomes (ECHO) Program Publications Committee |
| 2023 - | Steering Committee, Environmental Influences on Child Health Outcomes (ECHO) Program |
| 2024 - Present | Co-Chair, Environmental Influences on Child Health Outcomes (ECHO) Program Publications Committee |

**International**:

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| 2017 - Present | 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) |

**7. Review, Referee and Editorial Activities**

**Service on editorial boards:**

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

**Guest editor for special issues:**

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| 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*](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> |

**Grant review committees and study sections**:

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| 2016 | *Ad hoc* reviewer, Michigan Regional Comprehensive Metabolomics Core Pilot & Feasibility Grant |
| 2017 | *Ad hoc* reviewer, University of Michigan Momentum Center Pilot & Feasibility Grant |
| 2019 | *Ad hoc* reviewer, Southern California Environmental Health Sciences Center Pilot Project Program |
| 2021 | *Ad hoc* 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 | *Ad hoc* reviewer, Medical Research Council (MRC), U.K. Research and Innovation (UKRI), MRC Research Grant Program |
| 2022  2023 | External reviewer*,* National Institute of Environmental Health Sciences (NIEHS), Intramural Research Application  *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- | Member, Child Health and Human Development Panel M (CHHDM) Study Section |
| 2024 | *Ad hoc* reviewer, the Frontier Competitive Research Programme (CRP) of the National Research Foundation (NRF) of Singapore |
| 2024 | *Ad hoc* reviewer, the American Diabetes Association (ADA) Postdoctoral Fellowship |

***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*:**

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

***Session chair***:

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| 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:*

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| 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 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. |

*Guest lectures for classes:*

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| 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 Denver School of Public Affairs, PUAD 8070 (Quantitative Methods II; course instructor: Geoffrey Propheter), *Causal diagrams and 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 Denver School of Public Affairs, PUAD 8070 (Quantitative Methods II; course instructor: Geoffrey Propheter), *Causal inference in policy research: an epidemiological spin*. 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 |

**National**:

*Invited talks, seminars, and workshops*:

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| 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 Heath, 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. *How to achieve equity in precision medicine?*December 12th, 2024. |

**International**:

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| 2021 | Precision Diabetes Medicine (PDM). *Long-term consequences of exposure to gestational diabetes in utero: use of 'omics*. April 9th. Virtual conference. |
| 2022 | COMETs Consortium Scientific Talk. *Metabolomics predictors of dysglycemia in two youth cohorts*: *leveraging the COMETs consortium*. July 21st. Virtual seminar. |
| 2022 | Universidad Iberoamericana, Masters of Applied Nutrition Program, *Metabolomics for the advancement of nutrition research*. November 28th. Mexico City, MX. |
| 2022 | Universidad Iberoamericana, Masters of 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:*

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| 2019 - Present | EPID 7632 - Advanced Epidemiology II (3 credits) |
|  | Role: Developed and taught as primary instructor (5 semesters; ongoing) |
| 2024 – Present | PUBH 6991 – Capstone Integration (1 credit) Role: Facilitate development of oral and written deliverables for students’ capstone projects as primary instructor (1 semester; ongoing) |
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*Colorado Center for Clinical and Translational Sciences Institute (CCTSI) Biostatistics Epidemiology, and Research Design (BERD):*

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| 2023 – Present | Causal Inference in Epidemiology (certificate program short course)  Role: Developed and taught as primary instructor (1 term; ongoing) |
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University of Michigan School of Public Health

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| 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**:

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| 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, Ndiebnso Agbormbai, Jesse Carlson, Brianna Hoffman |
| 2022 - 2024 | Sarah Conway, Madeline Wrolson-Gaunt, Amelia Staniszewski |
| 2023 – 2025 | Madeline Karr, [more to come] |

**MPH Capstone Preceptor (mentorship role)**:

*University of Michigan School of Public Health*:

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| 2015 - 2017 | Aarohee Fulay, MPH |

*Colorado School of Public Health*:

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| 2018 - 2019 | Kathleen Angell, MPH |
| 2021 - 2022 | Valerie Swanson, MPH |
| 2021 - 2022 | Kaitlin E. Buck, MPH |
| 2022 - 2023 | Aisha Alkandari, MPH |
| 2023 - 2024 | Allison Cubbon, MPH; Cyrus Gidfar, MPH |

**MS Thesis mentorship**:

*Colorado School of Public Health*

2022-2024 Jonathan “Trent” VanHawkins, MS

*University of Michigan School of Public Health*:

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| 2015 - 2017 | Maymona Al-Hinai, MS |
| 2016 - 2018 | Molly Mulcahy, MS |

**PhD and MD mentorship**:

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| 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.” |
| 2020 - Present | Teresa Buckner, PhD candidate at the Colorado School of Public Health, Department of Epidemiology |
|  | *Role*: Dissertation committee member |
| 2020 - Present | William Patterson, PhD candidate at University of Colorado Boulder, Department of Integrated Physiology |
|  | *Role*: Dissertation committee member and F31 mentorship team member |
| 2019 - 2022 | Satvinder Dhaliwal, PhD, at the Colorado School of Public Health, Department of Epidemiology |
|  | *Role*: Primary mentor, TL1 fellowship mentor |
| 2022 – Present | Leslie Barnard, DrPH candidate at the Colorado School of Public Health, Department of Epidemiology  *Role*: Dissertation committee member |
| 2022 – Present | Alyssa Beck, PhD candidate at the Colorado School of Public Health, Department of Epidemiology  *Role*: Dissertation committee chair |
| 2022 – Present | Kylie Harrall, PhD candidate at the Colorado School of Public Health, Department of Epidemiology  *Role*: Dissertation committee chair |
| 2023 – Present | Dorah Labatte, DrPH candidate at the Colorado School of Public Health, Department of Epidemiology  *Role*: Primary mentor |
| 2023 – Present | Gabriella Mayne, PhD candidate at the University of Colorado Denver, Health and Behavioral Sciences Program  *Role*: Primary Mentor |
| 2024 – Present | Alice White, PhD candidate at the Colorado School of Public Health, Department of Epidemiology  *Role*: Dissertation committee chair |
| 2024 – Present | Kathryn Helfrich, PhD candidate at the Colorado School of Public Health, Department of Epidemiology  *Role*: Dissertation committee chair |

**Postdoctoral mentorship**:

University of Michigan:

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| 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”* |

Colorado School of Public Health:

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| 2019 - Present | Ellen C. Francis, PhD, Postdoctoral fellow, LEAD Center and 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); formerly primary mentor on the T32 Perinatal Biology fellowship 2019 – 2022 |
| 2020 - Present | Catherine C. Cohen, PhD, Postdoctoral fellow, LEAD Center and Epidemiology |
|  | *Role*: *Ad hoc* mentor on specific research projects |

Harvard Medical School:

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| 2019 - 2022 | Diana C. Soria, PhD, Department of Population Medicine, Harvard Medical School |
|  | *Role*: Primary mentor |

**Independent thesis examiner:**

Western Sydney University:

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| 2022 | Jane Estrella, PhD candidate, School of Medicine, Macarthur Clinical School, Western Sydney University, Sydney, New South Wales, Australia |
|  | *Role*: Independent thesis examiner for doctoral dissertation on use of neonatal dried blood spots for newborn metabolic screening. |

**10. RESEARCH RECORD**

# *Active:*

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

UG3OD035507 (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

R01HL1281570 (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 – 06/30/2025  
**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

AB Nexus (PI: Perng and Alderete) $50,000   
AB Nexus Program 12/1/2022-11/30-2023  
**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

# *Pending:*

R01DK132042 (PI: Hu, Perng, Staiano) $3,734,202  
NIH/NIDDK 08/01/2023 – 07/31/2028  
**GETHealthy Obesity Prevention: Exploring the effect of essential and non-essential metal** **mixtures** **and the epigenome on metabolic health 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

2R01HD096032 (MPIs: Oken and Chavarro] $4,968,484NIH/NICHD 5/1/2024-4/30/2029 **Fertility and women’s health trajectories through the menopausal transition: a life course approach.**In this renewal application, we propose to test our overall hypotheses that impaired fertility and ovarian hormone levels during the reproductive years predict adverse health trajectories that are exacerbated or made evident during and after the menopausal transition, and that these diverging health trajectories are modifiable by healthful lifestyle behaviors.  
Role: Co-I; subcontract PI

R21HL160629 (MPIs: Perng and Aris) $269,532NIH/NHLBI 07/01/2024 – 06/30/2026 **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:***

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: Alshawabkeh 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*:

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*Oral presentations:*

*\** Denotes student or mentee whom I directly mentored

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