

CURRICULUM VITAE

WEI PERNG, PHD MPH

1. CURRENT POSITION

Assistant Professor, Department of Epidemiology

Assistant Director of 'Omics Research, Lifecourse Epidemiology of Adiposity and Diabetes (LEAD) Center
Colorado School of Public Health, University of Colorado Anschutz Medical Campus
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2. EDUCATION

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

3. ACADEMIC APPOINTMENTS AND POSITIONS

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

- Research Assistant Professor, Department of Nutritional Sciences and Epidemiology, 2015 – 2017
- Co-Director of the Children's for Environmental Health Center Diet Working Group, 2015 – Present
- Present Adjunct Assistant Professor, Department of Nutritional Sciences, 2018 – Present

Colorado School of Public Health, University of Colorado Anschutz Medical Campus, Aurora, CO

- Assistant Professor, Department of Epidemiology, 2018 – Present
- Assistant Director, LEAD Center, 2018 – Present

4. HONORS AND AWARDS

- DeVries Award for Excellence in International Health Award, University of Michigan School of Public Health, 2013
- Early Nutrition New Investigator Award at the Early Nutrition Conference, 2014
- Obesity Research Interest Section Research Competition 1st place winner, 2014
- Society for Pediatric and Perinatal Epidemiologic Research (SPER) Rising Star Award, 2019
- University of Colorado Denver Chancellor's Teaching Recognition Award, 2020

5. PROFESSIONAL AFFILIATIONS

- American Diabetes Association (2017 – Present)
- American Society for Nutrition (2010 – Present)
- American Heart Association (2016 – Present)
- American Public Health Association (2012 – Present)
- Society for Epidemiologic Research (2010 – Present)
- Society for Pediatric and Perinatal Epidemiologic Research (2010 – Present)
- International Society for Developmental Origins of Health and Disease (2010 – 2019)
- Developmental Origins of Health and Disease U.S. Affiliate Chapter (2016 – 2019)
- American Public Health Association (2012 – 2019)
- The Obesity Society (2013 – 2017)

6. PROFESSIONAL LEADERSHIP AND SERVICE

Departmental:

- Assistant director for the LEAD Center, 2018 – Present
- MPH Admissions Committee, 2018 – 2019
- Health Equity Council, 2020 – Present

School:

- Tobacco Prevention & Control Faculty Search Committee, 2018
- Scholarship Committee, 2020
- NRSA Mock Study Section for Anschutz Medical Campus via the Graduate School and Postdoc office, 2020

National:

- American Diabetes Association (ADA) Precision Nutrition Task Force, 2020 – present
- Environmental Influences on Child Health Outcomes (ECHO) Consortium Publications Committee, 2020 – Present

International:

- Canadian Healthy Infant Longitudinal Development (CHILD) Study, Nutrition Working Group, 2017 – present
- Consortium of Metabolomics Studies (COMETs) Steering Committee Member, 2018 – present

7. REVIEW, REFEREE AND EDITORIAL ACTIVITIES

Editorial boards:

- Associate Editor for Pediatric Obesity, 2018 – Present
- Associate Editor for Scientific Reports, 2019 – 2020

Grant review committees and study sections:

- Michigan Regional Comprehensive Metabolomics Resource Core Pilot & Feasibility Grant, 2016
- University of Michigan Momentum Center Pilot & Feasibility Grant, 2017
- Southern California Environmental Health Sciences Center Pilot Project Program, 2019

Ad hoc reviewer:

- **Journals:** Academic Pediatrics; American Journal of Epidemiology; American Journal of Clinical Nutrition; Annals of Epidemiology; BMC Research Notes; BMC Medicine; BMC Public Health; British Journal of Obstetrics & Gynaecology; Childhood Obesity; Diabetes and Metabolism; Diabetologia; Diabetic Medicine; Epigenetics; Environmental Health Perspectives; Environment International; Environmental Research; European Journal of Clinical Nutrition; Epidemiology; Hypertension; International Journal of Obesity; Pediatric Obesity; 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; Nutrition, Metabolism, and Cardiovascular Disease; Nutrition Research; Obesity (Silver Spring; Pediatric & Perinatal Epidemiology; Public Health Nutrition; Scientific Reports
- **Professional societies and scientific meetings:**
Abstract reviewer for the following meetings: Experimental Biology, 2014, 2015, 2016, 2017, 2018, 2019; The Obesity Society, 2016, 2017, 2018, 2019; Society for Epidemiologic Research (SER) Annual Meeting, 2013, 2014, 2015, 2016, 2017, 2018, 2019; Society for Pediatric & Perinatal Epidemiologic Research (SPER) Annual Meeting, 2013, 2014, 2015, 2016, 2017, 2018, 2019; American Public Health Association (APHA) Annual Meeting, 2013, 2014, 2015, 2016, 2017, 2018, 2019; American Society for Nutrition (ASN) Clinical Conference, 2016

Session chair/moderator:

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

8. INVITED LECTURES, PRESENTATIONS, AND WORKSHOPS

National:

- 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, 2019, Baltimore, MD.
- Environmental influences on Child Health Outcomes (ECHO) Face-to-Face Meeting **2019**. *The utility of metabolomics in ECHO.* April 9th, 2019, Crystal City VA
- SEARCH For Diabetes in Youth Writing Group Meeting **2018**. *Metabolomics, obesity, and nutrition.* November 14th, 2018, Denver CO.
- American Heart Association Scientific Session **2016**. *Transgenerational inheritance of obesity.* November 14th, 2016. New Orleans, LA.

Regional/local:

Guest lectures for class:

- Colorado School of Public Health, Department of Epidemiology, EPID 7631 (Advanced Epidemiology 1; Course instructor: Anne Starling). *Directed acyclic graphs (DAGs).* September 28th, **2020**.
- Colorado School of Public Health, Department of Epidemiology, EPID 7605 (Research Methods; Course instructor: Kathy James). *Causal diagrams and formulation of research questions.* February 6th, **2020**,
- Colorado School of Public Health, Department of Epidemiology, EPID 6612 (Analytical Epidemiology; Course instructor: Angela Lee-Winn). *Development of research questions: Lessons from lifecourse epidemiology.* April 1st, **2020**.
- Perinatal-Neonatal Research Group Weekly Conference, Department of Pediatrics, School of Medicine, University of Denver Anschutz Medical Campus: Directed acyclic graphs (DAGs): A tool for asking the right questions. November 12th, 2020.

Invited seminars:

- University of Colorado Boulder Department of Physiology Colloquium. *Lifecourse Epidemiology: It's more than skin-deep.* September 16th, **2019**.
- Perinatal Nutrition Research Group (PNRC) Research Seminar, University of Colorado Anschutz Medical Campus, Expert Information Criterion (EIC) not AIC: The cautious biologist's guide to causal inference. November 11th, **2020**.

9. TEACHING RECORD

Courses developed and taught:

Colorado School of Public Health

- EPID 7632 – Advanced Epidemiology 2, Spring 2019, Spring 2020, Spring 2021 [Developed and taught as sole instructor]

University of Michigan School of Public Health

- NUTR 689 – Advanced Topics in Nutrition, 2015 – 2017 (5 semesters)

MPH Academic advising:

2018 – 2019: Kathleen Angell, Phuong Banh

2019 – 2020: Sierra Svend, Ryan Patrick, Rachel Haley, Cody Berkobien

2020 – 2021: Nikita Tovey, Jesse Carlson, Janeese Porterfield, Jyothi Lokandham, Kelsey Coogan

MPH Capstone advising:

2018-2019: Kathleen Angell, MPH

PhD advising:

- Satvinder Dhaliwal, PhD(c)
Role: Dissertation mentor, 2020 – present
- Teresa Buckner, PhD(c)
Role: Examination committee member, 2020 – present

Postdoctoral fellows:

- Ellen Francis, PhD. LEAD Center postdoctoral fellow
Role: Primary mentor, 2019 – present
- Diana C. Soria, PhD. Department of Population Medicine, Harvard Medical School
Role: Primary mentor, 2020 – present

Medical fellows:

- Lindsay Ellsworth MD. *Infant metabolism and gestational endocrinopathies study*
University of Michigan Medical School, Pediatric endocrinology fellow, 2016-2018
Role: Scholarship Oversight Committee member.

10. RESEARCH RECORD

Active:

KL2-TR002534 (PI: Perng) \$144,253
Colorado Clinical and Translational Sciences Institute 02/01/20 – 11/30/22

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

R01HD096032 (PI: Oken) \$16,442
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: Subcontract PI/Co-I

R01HD034568 (PI: Oken) \$7,549,205
NIH/NICHD 02/01/2017 – 01/31/2022

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/Co-I

Completed:

Child Health Exposure Analysis Resource (CHEAR) Grant (PI: Perng) N/A (award covers lab 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 KE and Song PXX) \$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 am now a consultant through 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 \$18,785
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, KE) 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

Pending:

R01DK12944817 (MPIs: Perng and Dabelea)

\$3,899,710

NIH

07/01/2020 – 06/30/2025

Title: Exploring Perinatal Outcomes among Children: the Young Adult Follow-up (EPOCH-YA)

This project seeks to characterize type 2 diabetes precursor trajectories across ontogeny, identify early life correlates and mechanisms, and assess modifiability of mechanisms via multi-omics analyses.

Role: MPI

11. BIBLIOGRAPHY

Peer-reviewed journal articles (*students/mentees; ± co-first authorship):

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.
3. **Perng W**, Rozek L, Mora-Plazas M, Duchin O, Marin C, Forero Y, Baylin A, Villamor E. Micronutrient status and global DNA methylation in school-age children. *Epigenetics* 2012; 7(10):1133-1141. PMID: 22918385.
4. **Perng W**, Mora-Plazas M, Marin C, Villamor E. Higher iron status is related to slower linear growth in iron-replete school-age children. *European Journal of Clinical Nutrition* 2013; 67(6):646-651. PMID: 23462945.
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.
6. **Perng W**, Mora-Plazas M, Marin C, Rozek LS, Baylin A, Villamor E. A prospective study of LINE-1 DNA methylation and development of adiposity in school-age children. *PLoS One* 2013; 8(4):e62587. PMID: 23638120.
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.
8. Tsai E*, **Perng W**, Baylin A, Harlow SD, Mora-Plazas M, Marin C, Villamor E. Accuracy of self-reported weight and height among women in Bogota, Colombia. *Ann Hum Biol* 2014; 41(5):473-641(5): 473-476. PMID: 24274686.
9. **Perng W**, Villamor E, Shroff M, Pilsner JR, Liu Y, Diez-Roux, AV. Methyl-donor nutrient intake, total plasma homocysteine and global DNA methylation: the Multi-Ethnic Study of Atherosclerosis. *Nutrition, Metabolism, and Cardiovascular Disease* 2014; 24(6):614-622. PMID: 24477006.
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, Isgaiatis 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.
16. **Perng W**, Stuart J, Rifas-Shiman SL, Stuebe A, Rich-Edwards JW, Oken E. Preterm birth and long-term maternal cardiovascular health. *Annals of Epidemiology* 2015; 25(1):40-45. PMID: 25459086.
17. Baylin A, **Perng W**, Mora-Plazas M, Marin C, and Villamor E. Serum *trans* fatty acids are not associated with weight gain or linear growth in school-age children. *Journal of Nutrition* 2015; 145(9):2102-2108. PMID: 26180252.
18. Fleisch A, Gibson H, **Perng W**, Rifas-Shiman SL, Coull BA, Kloog I, Koutrakis P, Schwartz JD, Zanobetti A, Mantzoros CS, Gillman MW, Gould DR, and Oken E. Prenatal and early life exposure to traffic pollution and cardiometabolic health in childhood. *Pediatric Obesity* 2016; 12(1):48-57. PMID: 26843357.
19. Gaillard R, Rifas-Shiman SL, **Perng W**, Oken E, and Gillman MW . Maternal inflammation during pregnancy and childhood adiposity. In press at *Obesity (Silver Spring)* 2016. PMID: 27094573.
20. **Perng W**[‡], Hivert MF[‡], Watkins SM, Newgard CS, Kenny LC, Kristal BS, Patti ME, Isganaitis E, DeMeo DL, Oken E, and Gillman MW. Review: Metabolomics in the developmental origins of obesity and its cardiometabolic consequences. *Journal of DOHaD* 2016; 6(2):65-78. PMID: 25631626.
21. **Perng W**, Rifas-Shiman SL, Kramer MS, Haugaard LK, Oken E, Gillman MW, and Belfort MB. Early weight gain, linear growth, and mid-childhood blood pressure: A prospective study in Project Viva. *Hypertension* 2016; 67 (2):301-308. PMID: 26644238.
22. **Perng W**[‡], Hajj H[‡], Belfort MB, Rifas-Shiman SL, Kramer MS, Gillman MW, and Oken E. Birth size, early childhood weight gain, and mid-childhood cardiometabolic health. *Journal of Pediatrics* 2016; 173:122-130.e1. PMID: 26995700.
23. Haugaard LK, Baker JL, **Perng W**, Belfort MB, Rifas-Shiman SL, Switkowski K, Oken E, Gillman MW. Growth in total height and its components and cardiometabolic health in childhood. *PLoS One* 2016; 11(9):e0163564. PMID: 27658308.
24. **Perng W**, Oken E, Roumeliotaki T, Sood D, Siskos AP, Chalkiadaki G, Dermitzaki E, Vafeiadi M, Kyrtopoulos S, Kogevinas M, Keun HC, Chatzi L. Leptin, acylcarnitine metabolites, and development of adiposity in the Rhea Cohort. *Obesity Science and Practice* 2016; 2(4):471-476. PMID: 28090353.
25. **Perng W**, Watkins DJ, Cantoral A, Mercado-Garcia A, Meeker J, Tellez-Rojo M, Peterson KE. Relations of in utero and concurrent BPA and phthalate exposure with lipid profile among peripubertal Mexican youth. *Environmental Research* 2017; 154:311-317. PMID: 28152472
26. McCabe C* and **Perng W**. Metabolomics and gestational diabetes. *Current Diabetes Reports* 2017; 17(8):57. PMID: 28646358.
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37. Jansen E, Zhou L, **Perng W**, Song PXX, Tellez-Rojo MM, Mercado A, Peterson KE, Cantoral A. Vegetable and lean proteins-based and processed meat and refined grains pattern-based dietary patterns in early childhood are associated with pubertal timing in a sex-specific manner: a prospective study of children from Mexico City. *Nutrition Research* 2018; 56:41-50. PMID: 30055773
38. **Perng W**, Baek J, Zhou CW, Cantoral A, Tellez-Rojo MM, Song PXX, Peterson KE. Associations of the infancy body mass index peak with anthropometry and cardiometabolic risk in Mexican adolescents. *Annals of Human Biology* 2018; 45(5):386-394. PMID: 30328713
39. **Perng W**, Talge NM, Holzman C, Senagore PK. Placental pathology, corticotropin-releasing hormone, timing of parturition, and fetal growth in the Pregnancy Outcomes and Community Health Study. *Journal of Maternal-Fetal & Neonatal Medicine* 2018; 33(7):1225-1232. PMID: 30157679.
40. **Perng W**, Tang L, Song PXX, Martha Mara Tellez-Rojo, Alejandra Cantoral, and Karen E. Peterson. Metabolomic profiles and development of metabolic risk during the pubertal transition: A prospective study in the ELEMENT Project. *Pediatric Research* 2018; 85(3):262-268. PMID: 30297880.
41. **Perng W**, Oken E, Dabelea D. Developmental overnutrition and offspring obesity and type 2 diabetes. *Diabetologia* 2019; 62(10):1779-1788. PMID: 31451868.
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