

Honors and Awards

- 2017 Saint Louis University College for Public Health and Social, Justice Terry Leet Teaching award
- 2005 Society for Epidemiologic Research Poster first Prize
- 2004 Summer User Workshop Fellowship on the National Longitudinal Surveys
- 2003-2004 Maternal and Child Health Bureau Epidemiology traineeship
- 2002-2003 Maternal and Child Health Bureau Traineeship
- 2001-2002

- 23*. Chang JJ, Pien G, Salas J, Habicht K, Stamatakas KA, Brownson RC. Short sleep duration and depressive symptoms in the rural Midwest. *J Rural Health* 2012;28(3):268-276. DOI: 10.1111/j.1748-361.
24. Chang JJ, Pien G, Stamatakas KA, Brownson RC. Association between physical activity and insomnia in rural communities of southeastern Missouri, Tennessee, and Arkansas. *J Rural Health*. 2013;29(3):239-247. DOI: 10.1111/j.1748-361.2012.00447.x
25. Macones GA, Chang JJ, Wang, J, Stamilio DM, Odibo AO, Cahill AG. Prediction of cesarean delivery using fetal pelvic index. Jun 19. 2013 *Am J Obstetrics and Gynecology* pii: S0002-9378(13)00642X. doi: 10.1016/j.ajog.2013.06.026.
26. Dong GH, Qian ZM, Wang J, Trevathan MA, Chen W, Xaverius PK, Buckner Betty S, Ray A, Liu MM, Wang D, Ren WH, Emo B, Chang JJ. Residential characteristics and household risk factors and respiratory diseases in Chinese women: The Seven Northeast Cities (SNEC) Study. *Sci Total Environ*. 2013 Jun 29;463-464C:389-394. doi: 10.1016/j.scitotenv.2013.05.063.
27. Mostello, D, Chang JJ, Bai F, Wang, J, Guild, C, Stamps, K, Leet T. Breech Presentation at Delivery: A Marker for Congenital Anomaly? *Perinatol*. 2014 Jan;34(1):15-20. doi: 10.1038/jp.2013.132. Epub 2013 Oct 24.
28. Huang, XN, Wang, HS, Chang JJ, Wang, LH, Liu, XC, Jiang, JX, Lin, A. Feeding methods, sleep arrangement, and infant sleep patterns: a Chinese population-based study. *World J Pediatr* 2016 Feb;12(1):66-75. doi: 10.1007/s12519-015-0012-8.
29. Chang JJ, Buchanan P, Mitchell R. Cost analysis of tonsillectomy in children using Medicaid data. *J Pediatr* 2014; Jun;164(6):1345-1351.e1. doi: 10.1016/j.jpeds.2014.01.055. Epub 2014 Mar 14
30. Xaverius P, Salas J, Woolfolk C, Leung F, Yuan J, Chang JJ. Predictors of Size for Gestational Age in St. Louis City and County. *Biomed Res Int*. 2014; 2014:515827. doi: 10.1155/2014/515827. Epub 2014 Jul 7.
31. Chang JJ, Strauss F, III, Deshazo JP, Rigby FB, Chelmow DP, Macones GA. Reassessing the impact of smoking during pregnancy on preeclampsia/eclampsia: Are there age and racial differences. *Plos One* 2014 Oct 22;9(10):e106446. doi: 10.1371/journal.pone.0106446. eCollection
- 32*. Tabet M, Flick LH, Tuuli MG, Macones GA, Chang JJ. Prepregnancy Body Mass Index in a First Uncomplicated Pregnancy and Outcomes of a Second Pregnancy. *Am J Obstet Gynecol* 2015 Oct;213(4):548.e7-12. doi: 10.1016/j.ajog.2015.06.031
- 33*. Joseph M, Elliot M, Zelicoff, Qian ZM, Trevathan E, Chang JJ. Racial Disparity in the Association between Body Mass Index and Self-Reported Asthma in children: A population-based study. *J Asthma* 2016 Jun;53(5):492-497. doi: 10.3109/02770903.2015.1116084.

34. Chang J, Salas J; Tabet M; Kasper Z; Elder K; Staley H; Brownson R. Changes in Body Mass Index and the Trajectory of Depressive Symptoms among Rural Men and Women. *J Rural Health*; 2016 Jan 28. doi: 10.1111/jrh.12170. [Epub ahead of print].
35. Liu RQ, Qian Z, Trevathan E, Chang J, Zelicoff A, Hao YT, Lin S, Dong GH. Poor sleep quality associated with high risk of hypertension and elevated blood pressure in China: Results from a large population-based study. *Hypertens Res*. 2016 Jan;39(1):54. doi: 10.1038/hr.2015.98. Epub 2015 Sep 3.
- 36*. Tabet M T, Louise LH, Cook C, Xian H, Chang J. Age at First Birth and Psychiatric Disorders in Low-income Pregnant Women. *J Womens Health (Larchmt)* 2016 Aug;25(8):817. doi: 10.1089/jwh.2015.5236.
- 37*. Chang J, Tabet M, Elder K, Kiel DW, Flick LH. Racial/Ethnic Differences in the Correlates of Mental Health Services Use among Pregnant Women with Depressive Symptoms. *Matern Child Health J*. 2016; 20(9), 1911-1922. DOI 10.1007/s10995-016-2005-1
- 38* Woolfolk, CL, Harper, LM, Flick, LH, Mathews, K, Chang J. Gestational Weight Gain and Preterm Birth: Disparities in Adolescent Pregnancies. *J Perinatol* 2016 Dec;36(12):1055-1060. doi: 10.1038/jp.2016.149
39. Zhou Y, Hu LW, Qian ZM, Chang J, King C, Paul G, Lin S, Chen P, Lee YL, Dong GH. Association of perfluoroalkyl substances exposure with reproductive hormone levels in adolescents: By sex status. *Environ. Health Perspect*. 2016;94:1899-1905. doi: 10.1016/j.envint.2016.05.018.

44. Yang S, Yang R, Liang S, Wang J, Weaver NL, Hu K, Hu R, Trevathan E, Huang Z, Zhang Y, Yin T, Chang J, Zhao J, Shen L, Dong G, Zheng T, Xu S, Qian Z, Zhang B. Symptoms of anxiety and depression during pregnancy and their association with low birth weight

- 54.* Tabet M, Flick LH, Xian H, Chang J Revisiting the Low Birthweight Paradox Using Sibling Data with Implications for the Classification of Low Birthweight. *J Public Health (Oxf)*. 2018;40(4):e601-607. doi: 10.1093/pubmed/fdy087.

1. Chang J, Kaufman JS, and Halpern CJ. Association between physical activity and adolescent depressive symptoms over time from the National Longitudinal Study of Adolescent Health [Abstract]. Am J Epi

acones GA, Chang R. Racial Disparities in the Association between
Gain and Gestational Diabetes Mellitus by Pre-pregnancy BMI
2015;Suppl (Jan, 2015)

Pien G. Shift work and sleep patterns among pregnant nurses using
2019; 64(1); eS359; s62

*indicates student project)

Meaver N, Chang T. The effect of counseling on fetal and neonatal

4. 2010 "Comparative Effectiveness Research of Prenatal Care Services in Mississippi" National Institute for Disease Control and Prevention, Not Funded.
5. 2011 "Shiftwork during pregnancy and risk of postpartum depression" National Institute of Health Clinical Research Training Center of Washington University School of Medicine in St. Louis, Not Funded.
6. 2011 "Shiftwork During Pregnancy And Preeclampsia" \$50,000 from Saint Louis University President Research Funding program, FUNDED.
7. 2012-2013 "Shiftwork during pregnancy and risk of preterm delivery" National Institute of Health, Not Funded.
8. 2014 "Vitamin D Insufficiency and Risk of Postpartum Depression", \$7,096 from Saint Louis University, FUNDED.
9. 2014-2015 "Shiftwork during pregnancy and risk of preterm delivery" Center for Disease Control and Prevention, Not Funded.
10. 2017-2018 "Promoting Healthy Sleep Health Among Families Of Young Children: A Pilot Study", \$50,000 from the NIH Institute of Clinical and Translational Sciences at Washington University in St. Louis, FUNDED.
11. 2019 "Effects of Shiftwork on Health Behaviors During pregnancy and Preterm Delivery" Center for Disease Control and Prevention, Scored 11 percentile
12. 2019 "Telemedicine and e-Health in Hypertension Management during Pregnancy to Reduce Racial Disparity in Maternal and Fetal Outcomes", Saint Louis University Applied Health Sciences Research Grant Program, Not Funded.
13. 2019-2020 "Chronic Maternal Sleep Restriction and Risk of Overweight/Obesity during Early Childhood" Saint Louis University President's Research Fund. FUNDED.
14. 2020 "Covid-19 Pandemic and Food Insecurity During Pregnancy among Low Income Families in St. Louis City". The Washington University Institute of Clinical and Translational Sciences (ICTS). Not Funded.

Conference Presentations (indicates student led project)

1. Chang JJ, Amon E, Leet T. Is mode of delivery a risk factor for cerebral palsy." Presented at the 50th annual meeting of the American College of Obstetrics and Gynecology, Los Angeles, CA, May, 2002.
2. Theodore A, Chang JJ, Runyan D, Hunter WM, Bangdiwala SI, Egans R. "Measuring the physical and sexual maltreatment of children in the Carolinas." Presented at the Pediatric Academic Societies' Annual Meeting, San Francisco, CA, May, 2004.

3. Park MM, Chang J, Hussey JM. “

- at the Society for Maternal and Fetal Medicine 2006 Annual meeting, San Francisco, CA, February, 2007.
- 19*. Bryan RL, Garfield LD, Chang JJ, Hoffstetter S, Leet TL. Induction of labor and maternal and neonatal outcomes in multiparous women in a population based sample. Abstract presented at the 2007 APHA conference, Washington DC, November, 2007.
 20. Chang JJ, Muglia LJ, Macones GA. Recurrent preeclampsia and adverse birth outcomes in a population based study. Abstract accepted for presentation at the Society for Maternal and Fetal Medicine 2007 Annual meeting, Dallas, TX, January, 2008.
 21. Defranco E, Chang JJ, Muglia LJ. The correlation in birth timing between singleton and multifetal gestations. Abstract accepted for presentation at the Society for Maternal and Fetal Medicine 2007 Annual meeting, Dallas, TX, January, 2008.
 22. Chang JJ, Pien G, Stamatakas KA, Brownson RC. Association between short sleep duration and depressive symptoms in rural communities of southeastern Missouri, Tennessee, and Arkansas. Abstract accepted for presentation at SLEEP 2010, 24th Annual Meeting of the Associated Professional Sleep Societies, LLC, St. Antonio, TX, June, 2010
 23. Chang JJ, Pien G, Stamatakas KA, Brownson RC. Association between physical activity and insomnia in rural communities of southeastern Missouri, Tennessee, and Arkansas. Abstract accepted for presentation at SLEEP 2010, 24th Annual Meeting of the Associated Professional Sleep Societies, LLC, St. Antonio, TX, June, 2010
 - 24*. Salas, J, Chang JJ, Brownson RC. Temporal association of body mass index and depression among rural women. Abstract accepted for presentation at the 2010 MCH EPI conference, St. Antonio, TX, December, 2010.
 - 25*. Gomez JW, Chang JJ. Acculturation and Health Care Access and Utilization for Hispanic Children in the United States. Abstract accepted for presentation at the 2010 MCH EPI conference, St. Antonio, TX, December, 2010.
 26. Chang JJ, Stamilio DM, Odibo AO, Cahill AG, Macones AG. Prediction of cesarean delivery using fetal pelvic index. Abstract accepted for presentation at the Society for Maternal and Fetal Medicine 2011 Annual meeting, San Francisco, CA, February, 2011.
 27. Chang JJ, Patel K, Duntley, SP, Leung F, Pien GW. Association between sleep duration and maternal mental well being during pregnancy: A population based study. Abstract accepted for presentation at SLEEP 2011, 25th Annual Meeting of the Associated Professional Sleep Societies, LLC, Minneapolis/St. Paul, MN, June, 2011
 28. Chang JJ, Chien LC, Duntley, SP, Pien GW. Sleep Duration During Pregnancy and Maternal and Fetal Outcomes: A pilot study Using Actigraphy. Abstract accepted for presentation at SLEEP 2011, 25th Annual Meeting of the Associated Professional Sleep Societies, LLC, Minneapolis/St. Paul, MN, June, 2011

29*. Muthukrishnan M, Thampy L, Flick LH, Chang J. Correlates of Physical Inactivity in Overweight/Obese Pregnant Women. Abstract accepted for presentation at the 2011 MCH EPI conference, New Orleans, LA, December, 2011.

30. Chang JJ, Chien LC, Macones GA.

39. Chang JJ, Strauss JF, III, Deshazo,

7. "Measurement of Sleep duration and sleep problems in the Population and Health Research Center Bureau of Health Promotion, Center for Disease Control, Taiwan, 2013"
8. "Effect of Sleep Restriction on Population Health" at National Defense Medical Center, Taiwan, 2014
9. "Methodological issues with Longitudinal Studies" at the

3. National Institute of Health Mechanisms of Emotion, Stress, and Health study section. Bethesda. MD, June 2011
4. National Institute of Health Motor Function, Speech and Rehabilitation Study Section. Bethesda. MD,

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| Sum of the Times Cited | 2,131 |
| h-index | 20 |

| Most Cited Papers | Citation Count |
|--|----------------|
| Hussey JM, Chang J, Jand Kotch JB. Child maltreatment in the United States: prevalence, risk factors, and adolescent health consequences. <i>Pediatrics</i> . 2006; 118(3): 933-942 | 562 |
| Brownson R, Chang J, Eyer AA, Ainsworth BE, Kirtland KA, Saelens B, and Sallis JF. Measuring the environment friendliness for physical activity: A comparison of three questionnaires. <i>Am J Public Health</i> . 2004, 94:473-483. | 207 |
| Theodore AD, Chang J, Runyan DK., Hunter WM, Bangdiwala, SI, and Egans R. Epidemiologic features of the physical and sexual maltreatment of children in the Carolinas. <i>Pediatrics</i> . 2005; 115: e331-e337 | 181 |
| Chang J, Pien G, Duntley S, Macones GA. Sleep deprivation during pregnancy: maternal and fetal outcomes: Is there a relationship? <i>Sleep Med Rev</i> . 2010;14(2):107-114. Epub 2009 Jul 21 | 145 |
| Zolotor AJ, Theodore AD, Chang J, Berkoff MC, Runyan DK. Speak softly and forget the stick: Corporal punishment and child physical abuse. <i>Am J Prev Med</i> 2008;35(4):364 | 116 |
| Lee LC, Harrington RA, Chang J, Connors SL. Increased risk of injury in children with developmental disabilities. <i>Res Dev Disabil</i> . 2008;29(3):247-55 Zolotor AJ, Theodore AD, Chang J, Laskey AL, Runyan DK. Corporal punishment and physical abuse: population based trends for 3-11 year old children in the United States. <i>Child Abuse Review</i> . 2011;20(1):57 | 88 |

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| <i>Arch Pediatr Adolesc Med.</i> 2007;161 (7):697-703 | |
| Chang J, Brownson RC, and Chen JJ. The role of repeat victimization in adolescent delinquent behaviors and recidivism. <i>J Adolesc Health.</i> 2003;32(4):272-80 | 77 |
| Langford A, Joshua CE, Chang J, Myles T, Leet TL. Does gestational weight gain affect the risk of adverse maternal and infant outcomes in overweight women? <i>Matern Child Health J.</i> February 5 2008; DOI: 10.1007/s10998-03184 | 49 |
| Harper LM, Chang J, Macones GA. Adolescent pregnancy and weight gain: Do Institute of Medicine recommendations apply? <i>Am J Obstet & Gynecol.</i> 2011 Aug;205(2):140.e-8 | 41 |
| Liu RQ, Qian Z, Trevathan E, Chang J, Zelicoff A, Hao YT, Lin S, Dong GH. Poor sleep quality associated with high risk of hypertension and elevated blood pressure in China: Results from a large population-based study. <i>Hypertens Res.</i> 2016 Jan;39(1):54. doi: 10.1038/hr.2015.98. Epub 2015 Sep 3 | 47 |
| Mostello D, Chang J, Allen J, Luehr L, Shyken J, Leet T. Recurrent Preeclampsia: The Effect of Weight Change between Pregnancies. <i>Obstet & Gynecol.</i> 2010; 116(3):667-72 | 35 |
| Theodore AD, Runyan DK, Chang J. Measuring the risk for physical neglect in a population-based sample. <i>Child Maltreat</i> 2007; 12 (1):96-105 | 32 |
| Chang J, Theodore A, Martin S, and Runyan D.K. Psychological abuse between parents: associations with child maltreatment risk from a population based sample. <i>Child Abuse Negl</i> 2008;32:819-829. | 28 |
| Zhou Y, Hu LW, Qian ZM, Chang J, King C, Paul G, Lin S, Chen P, Lee YL, Dong GH. Association of perfluoroalkyl substances exposure with reproductive hormone levels in adolescents: By sex status. <i>Environ Health Perspect.</i> 2016;94:18995. doi: 10.1016/j.envint.2016.05.018 | 28 |

Spring 2007-present EPI 5020 Epidemiology Method II

Fall 2014 present EPI 5080 Perinatal Epidemiology

Spring 2017-present PUBH 2100 Introduction to Global Health

Graduate Students Independent Research Project Title Mentored

1. Rebecca P. Bryan, Lauren D. Garfield (2006) "Induction of labor and maternal and neonatal outcomes in multiparous women in a population based sample"
2. Aisha Langford, Corrie Joshi (2006) "Does gestational weight gain affect the risk of adverse maternal and infant outcomes in overweight women?" PUBLISHED.
3. Swathy Kolli, Chris Giggey (2008) "Short Sleep Duration in Adolescence and Risk of Obesity in Young Adulthood – A Population Based Study"
4. Rubina Mir, Younathan Abdi (2009) "Maternal and fetal outcomes of Vaginal Birth after Cesarean Delivery in the Normotensive Second Pregnancy following Preeclampsia in First Pregnancy"
5. Jacob Henrichsen, Fang Bai (2010) "Do placenta previa and placental abruption carry implications for the prognosis of a subsequent pregnancy? A population approach"
6. Joanne Salas (2010) 1) "Risk factors of child Maltreatment cluster and its association with affect/behavior deregulation using the Longitudinal Studies of Child Abuse and Neglect" 2) "Does a medical home influence the effect of birth weight on health outcomes?" PUBLISHED.
7. Jennifer Gomez (2010) "Acculturation and Health Care Access and Utilization for Hispanic Children in the United States" Conference Presentation
8. Kanan Patel, Ketankumar Shah (2010) "Does weight change between first and second pregnancies affect the risk of pregnancy complications among overweight and obese women?"
9. Melissa Anthony, Raya Khoury (2011) "The effects of depression on quality of prenatal diet"
10. Meera Muthukrishnan, Leila Tham (2011) "Racial Disparity and Correlates of Physical Inactivity in Overweight/obese Pregnant Women"
11. Shailja Jakha, Christine Williams, Usha Rawat, Yismaw Hailegiorgis (2014) "Racial/Ethnic Differences in Correlates of Spontaneous and Medically Indicated Late Preterm Births among Adolescents" PUBLISHED.
12. Brandi Simmons, Dianna Romero (2011) "Determining Fatigue vs. Sleepiness Using Subjective Measures (PSQI) and Objective Measures (PSG) of Sleep Quality"

13. Amanda Hoeffken/Vinita Dora, Nimra Tariq(2012)“Protective Factors for Gestational Weight Gain” Conference presentation
14. Lauren Ho(2012)“Preterm birth outcomes among Asian, Native Hawaiian, and other Pacific Islander mother’s
15. Won Choi (2012)“Sleep patterns among Korean adolescent”.
16. Vicky Choi (2012)“Associations Between Sleep Duration and Age at Onset of Ever Smoking and Daily Cigarette Use among Korean Adolescents
17. Erin Sanders (2013)“Neighborhood Conditions and Psychosocial Outcomes among Middle Aged African Americans”,PUBLISHED.
18. Michael Joseph (2013) “Risk factors for insomnia symptoms among adolescents: a populationbased study” and “Racial Disparity in the Association between Body Mass Index and SelfReported Asthma in children: A populationbased study,”PUBLISHED.
19. Joseph Espiritu (2013)“Supine Slorenso 2) -J. BMC O. 00-22016 (92/4)-2) op 4(s)-1(yA)2(s)-1(s)

26. Lan Luong (2014) "Large for Gestational Age at Preterm Birth: Associations with Obstetric Morbidities and Birth Outcomes" and "Effects of Interpregnancy interval on second pregnancy outcomes after the first pregnancy resulted in fetal death and/or neonatal death". Submitted.
27. George Yang (2015)

Committees at the Department, College, and the University

- x Graduate Curriculum Committee, School of Public Health (2007-2008)
- x Graduate Admission Committee, School, of Public health (2007-2008)
- f Practice Experience Committee, School of Public Health (2008-2012)
- f Center for Sleep Science Task Force Committee, School of Medicine (2009-2010)
- f Faculty Advisor, Taiwanese Student Association, Saint Louis University (2009-present)
- f Research Committee, School of Public Health (2008-2010)
- f Graduate School Research Committee, Saint Louis University (2008-2016)
- x Chair, Admission committee, Department of Epidemiology & Biostatistics (2012-present)
- f Global Health Initiative Work Group Committee, College for Public Health and Social Justice (2013-2015)
- f Maternal and Child Health Advisory Committee, College for Public Health and Social Justice, (2014-present)
- f Faculty workload Committee, College for Public Health and Social Justice (2014-2016)
- f Faculty Assembly Executive Committee, College for Public Health and Social Justice (2014-present)
- f President, Faculty Council, College for Public Health and Social Justice (2015-2017)
- f President's Advisory Council, Saint Louis University (2015-2017)
- f Academic Affair Committee, College for Public Health and Social Justice (2015-2017)
- x Judge reviewer, Judge Panel for the Saint Louis University's Annual Graduate Student Association Symposium (2017)
- x Student internship Committee, Department of Epidemiology and Biostatistics (2017-present)
- x MPH Reinvention Task Force for Applied Practice Experience, Academic Affairs Committee, College for Public Health and Social Justice (2017-present)
- x Case Study Judge, Judge Panel for the Saint Louis University's Annual Public Health Scholar Bowl (2019)

- x Faculty Judge, Paper Presentation Judge Panel for the Saint Louis University's Annual Graduate Student Research Symposium (2019)
- x MPH Academic Adviser, Department of Biostat

- x Grant Reviewer. Clinical and Translational Research Funding Program grant review study section. Washington University in St. Louis, St. Louis, Missouri, October 11, 2019
- x Leader, EPI/BST Core for Covid-19 Pandemic Data analysis for Saint Louis County Department of Health, Saint Louis University College for Public Health and Social Justice, 2020

Media Presence

1. Expert talk on a mother's prepregnancy body mass index during first pregnancy on future pregnancies with KTVI-TV Fox2 newsroom. In studio interview in Maryland Heights, Missouri (2015)
2. Expert talk on gestational weight gain and maternal and fetal outcomes. St. Louis Public Radio (KWMU) interview with Dr. Veronique Lacrapra. St. Louis, Missouri (2015)
3. Expert Talk on postpartum depression. WUFT Public Radio "Public Health Minute." aired on a number of stations throughout the country (including Florida, Minnesota, Illinois, Alabama, Wisconsin and Texas) (2017)