

## CURRICULUM VITAE

**JEN JEN CHANG, Ph.D.**

### **Address and Telephone Numbers:**

Office: Department of Epidemiology  
College for Public Health and Social Justice  
Saint Louis University  
3545 Lafayette Ave., Suite 300  
St. Louis, MO 63104  
Tel: (314) 977-8130  
Fax: (314) 977-3234  
E-mail: jjchang@slu.edu

### **Education:**

Undergraduate:	1990-1993	B.B.A University of Iowa (Management Science) Iowa city, Iowa
Graduate:	2000-2002	M.P.H. Saint Louis University, Epidemiology and Biostatistics Saint Louis, Missouri
	2002-2005	Ph.D. University of North Carolina-Chapel Hill Chapel Hill, North Carolina Dissertation title: "Maternal depressive symptomatology and the trajectories of offspring problem behaviors and substance use – A life course perspective."

### **Honors and Awards**

2012-2013	President's Research Fund Award Saint Louis University
2010-2013	NIH K01 Research Scientist Development award
2006-2009	NIH K12 Multidisciplinary Clinical Research Career Development Program Scholar 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 Saint Louis University, School of Public Health, Graduate Research Assistant Award
- 2001-2002 Saint Louis University, School of Public Health, Ignatian Scholarship

**Academic Positions/Employment:**

- 1995-2000 International operation manager,  
Medicine Shoppe International, Inc.  
St. Louis, MO
- 2001-2002 Research assistant,  
Prevention Research Center,  
Saint Louis University, St Louis, Missouri
- 2001-2002 Data Analyst,  
Cardinal Glennon Children's Hospital  
Department of Pediatrics, Saint Louis University  
St. Louis, Missouri
- 2002-2005 Data Analyst  
Injury Prevention Center  
University of North Carolina-Chapel Hill  
Chapel Hill, North Carolina
- 2003-2005 Data manager  
Child Neglect and Abuse project with the National  
Longitudinal Study of Adolescent Health data  
Maternal and Child Health Department  
School of Public Health  
University of North Carolina-Chapel Hill  
Chapel Hill, North Carolina
- 2005-2013 Assistant Professor  
Department of Epidemiology  
School of Public Health  
Saint Louis University, St. Louis, Missouri
- 2013-present Associate Professor  
Department of Epidemiology,  
College for Public Health and Social Justice  
Saint Louis University, St. Louis, Missouri

**University Appointments and Committees:**

- 2007-2008 Member, Graduate Curriculum Committee  
School of Public Health, Saint Louis University  
St. Louis, Missouri
- 2007-2008 Member, Graduate Admission Committee  
School, of Public health, Saint Louis University  
St. Louis, Missouri
- 2008-2012 Advisor, Practice Experience Faculty Advisor  
Committee, School of Public Health,  
St. Louis, Missouri
- 2009-2010 Member, Center for Sleep Science Task Force Committee  
School of Medicine, Saint Louis University  
St. Louis, Missouri
- 2009-present Faculty Advisor, Taiwanese Student Association  
Saint Louis University, St. Louis, Missouri
- 2008-2010 Member, Research Committee  
School of Public Health, Saint Louis University  
St. Louis, Missouri
- 2008- Member, Graduate School Research Committee  
Saint Louis University, St. Louis, Missouri
- 2012-present Admission advisor for Department of Epidemiology,  
College for Public Health and Social Justice,  
Saint Louis University, St. Louis, Missouri
- 2013-present Member, Global Health Initiative Work Group  
Committee  
College for Public Health and Social Justice,  
Saint Louis University, St. Louis, Missouri
- 2014-present Member, Maternal and Child Health Advisory  
Committee  
College for Public Health and Social Justice,  
Saint Louis University, St. Louis, Missouri
- 2014-present Member, Faculty workload Committee  
College for Public Health and Social Justice,  
Saint Louis University, St. Louis, Missouri
- 2014-present Member, Faculty Assembly Executive Committee  
College for Public Health and Social Justice,

Saint Louis University, St. Louis, Missouri

- 2015-2017 President, Faculty Assembly  
College for Public Health and Social Justice,  
Saint Louis University, St. Louis, Missouri
- 11/2015 Thesis committee member and mentor. National Defense  
Medical Center Department of Public Health, Taiwan

### **Editorial Responsibilities:**

Reviewer

American Journal of Obstetrics and Gynecology

American Journal of Public Health

British Journal of Obstetrics and Gynecology

Canadian Medical Association Journal

Clinical Interventions in Aging

European Journal of Obstetrics & Gynecology and Reproductive Biology

International Journal of Epidemiology

Journal of Adolescent Health

Journal of American Medical Association (JAMA)

Journal of Asthma

Journal of Rural Health

Journal of Women's Health

New England Journal of Medicine

Pediatrics

Scientific World Journal

Sleep

Sleep and Breathing

### **Professional Service**

- 2006 Committee Member, Pregnancy Related Assessment and  
Monitoring System (PRAMS) task force, Missouri  
Department of Health and Senior Services,  
Jefferson City, Missouri
- 2009 Member, Sleep Deprivation Research Section Committee  
American Academy of Sleep Medicine  
Westchester, Illinois
- 2009 Abstract Reviewer, Annual CDC Maternal and Child  
Health Epidemiology meeting  
Atlanta, Georgia

- 2010 Faculty Champion, Society for Epidemiologic Research, Student Caucus, Clearfield, Utah
- 2010 Grant Reviewer, St. Louis Community/University Health Research Partnerships (CUHRP)  
St. Louis, Missouri
- 2010- Member, Case Review Team, The Maternal, Child and Family Health Coalition's Fetal and Infant Mortality Review Program. St. Louis, Missouri
- 2011 Grant Reviewer, Center for Disease Control Scientific Review Panel for grant applications for the Pregnancy Risk Assessment Monitoring System (PRAMS) Special Emphasis on Teen Pregnancy  
Atlanta, GA, April, 2011
- 2011 Grant Reviewer, National Institute of Health Mechanisms of Emotion, Stress, and Health (MESH) study section. June, 2011, Bethesda. MD
- 2011 Grant Reviewer, National Institute of Health Motor Function, Speech and Rehabilitation Study Section (MFSR). November, 2011, Bethesda. MD
- 2012 Grant Reviewer, South African Medical Research Council, September, 2012
- 2013 Section Chair, Midwest Chinese American Science & Technology Association, scientific forum section on *Public Health: Everything you need to know*, September, 2013, St. Louis, MO

**Professional Societies and Organizations:**

- 2005 –2007 American Public Health Association – Epidemiology Section
- 2005 – 2009 Society for Epidemiologic Research
- 2009 – 2013 American Academy of Sleep Medicine

**Invited Professorships and Lectureships:**

- 2007 Introduction to Epidemiology. Practical Research Skills Series, Saint Louis University. St. Louis, Missouri

- 2008 Sleep restriction during pregnancy and risk of postpartum depression. Sleep Medicine Center, Washington University School of Medicine, St. Louis, Missouri
- 2009 Sleep deprivation during pregnancy and risk of preterm delivery. Sleep disorders Center. Saint Louis University. St. Louis, Missouri
- 2011 Sleep and pregnancy outcomes: Is there a relationship? School of Public Health, Saint Louis University. St. Louis, Missouri
- 2012 Visiting Lecturer, Methodological issues with Longitudinal Studies. National Center for Women and Children's Health, China CDC, Beijing, China
- Visiting Lecturer, Effect of Sleep Restriction on Population Health. Population and Health Research Center, Bureau of Health Promotion, Center for Disease Control, Taiwan
- 2013 Visiting Lecturer, Measurement of Sleep duration and sleep problems. Population and Health Research Center Bureau of Health Promotion, Center for Disease Control, Taiwan
- 2014 Visiting Professor, Effect of Sleep Restriction on Population Health. National Defense Medical Center, Taiwan
- 2015 Invited Speaker, Methodological issues with Longitudinal Studies. Annual conference of Korean Neuropsychiatric Association, Seoul, South Korea, April 1-9
- Visiting Professor, Subjects recruitment and retention in longitudinal study. Seoul National University School of Medicine, Seoul, South Korea
- 2015 Visiting Professor, National Defense Medical Center Department of Public Health, Taiwan, 11/23-12/2

**Teaching Title and Responsibilities:**

- Spring 2001 Teaching Assistant, Principles of Statistical Inference  
University of North Carolina-Chapel Hill  
Chapel Hill, North Carolina

- Fall 2005 Co-Instructor, Epidemiology Method I  
Saint Louis University School of Public Health  
St. Louis, Missouri
- 2007-present Instructor, Epidemiology Method II  
Saint Louis University College for Public Health and Social  
Work, St. Louis, Missouri
- 2014-present Instructor, Perinatal Epidemiology  
Saint Louis University College for Public Health and Social  
Work, St. Louis, Missouri

### Student Advising/Mentoring

#### PhD students

Kerry Bommarito (dissertation committee member)  
Maya Tabet (advisor)

#### Independent research paper mentoring:

Rebecca P. Bryan (2006)	Raya Khoury (2011)	YinJiao Ma (2014-15)
Lauren D. Garfield (2006)	Meera Muthukrishnan (2011)	Shailja Jakhar (2014-15)
Aisha Langford (2006)	Brandi Simmons (2011)	Nhial Tutlam (2014-15)
Corrie Joshu (2006)	Dianna Romero (2011)	Kaitlin Vanderkolk (201-15)
Swathy Kolli (2008)	Leila Thampy (2011)	Kuntal Shah (2014-15)
Chris Giggey (2008)	Christina Gladney (2012)	Candice Woolfolk (2014-15)
Rubina Mir (2009)	Amanda Hoeffken (2012)	Lan Luong (2014-2016)
Younathan Abdia (2009)	Lauren Ho (2012)	George Yang (2015-2017)
Jacob Henrichs (2010)	Won Choi (2012)	
Fang Bai (2010)	Vicky Cho (2012)	
Joanne Salas (2010)	Erin Sanders (2013)	
Jennifer Gomez (2010)	Michael Joseph (2013-15)	
Kanan Patel (2010)	Joseph Espiritu (2013-14)	
Melissa Anthony (2011)	Maya Tabet (2012-present)	

### Bibliography:

#### Peer Reviewed Manuscripts (\*indicates student-led project)

1. Chang JJ, Brownson RC, and Chen JJ. The role of repeat victimization in adolescent delinquent behaviors and recidivism. *J Adolesc Health*. 2003; 32(4):272-80.
2. Brownson R, Chang JJ, Eyler AA, Ainsworth BE, Kirtland KA, Saelens BE, and Sallis JF. Measuring the environment friendliness for physical activity: A comparison of three

- questionnaires. *Am J Public Health*. 2004, 94:473-483.
3. Theodore AD, Chang JJ, Runyan DK., Hunter WM, Bangdiwala, SI, and Egans R. Epidemiologic features of the physical and sexual maltreatment of children in the Carolinas. *Pediatrics*. 2005; 115: e331-e337
  4. Hussey JM, Chang JJ, and Kotch JB. Child maltreatment in the United States: prevalence, risk factors, and adolescent health consequences. *Pediatrics*, 2006; 118 (3): 933-942.
  5. Theodore AD, Runyan DK, Chang JJ. Measuring the risk for physical neglect in a population-based sample. *Child Maltreat* 2007; 12 (1):96-105.
  6. Chang JJ, Halpern CT, Kaufman JS. Maternal depressive symptoms, father's involvement, and the trajectories of child problem behaviors in a US national sample. *Arch Pediatr Adolesc Med*. 2007;161 (7):697-703.
  7. Barlow S., Chang JJ. Is parental aggravation associated with childhood overweight? An analysis of the national survey of children's health 2003. *Acta Paediatrica*, 2007; 96 (9):1360-1361.
  8. Lee LC, Harrington RA, Chang JJ, Connors SL. Increased risk of injury in children with developmental disabilities. *Res Dev Disabil*. 2008;29(3):247-55.
  9. Chang JJ, Theodore A, Martin, S, and Runyan D.K. Psychological abuse between parents: associations with child maltreatment risk from a population - based sample. *Child Abuse Negl* 2008;32:819-829.
  - 10\*. Langford A, Joshu CE. Chang JJ, Myles, T, Leet TL. Does gestational weight gain affect the risk of adverse maternal and infant outcomes in overweight women? *Matern Child Health J*. February 5 2008: DOI: 10.1007/s10995-008-0318-4.
  11. Chang JJ, Stamilio DM, Macones GA. The effect of hospital volume on obstetric outcomes in women with prior cesarean delivery undergoing trial of labor. *Am J Epi* 2008; 167(6):711-8.
  - 12\*. Shen TT, Defranco EA, Stamilio DM, Chang JJ, Muglia LJ. A population-based study of race-specific risk for preterm premature rupture of membranes. *Am J Obstet & Gynecol* 2008;199(4):373.e1-7
  13. Zolotor AJ, Theodore AD, Chang JJ, Berkoff MC, Runyan DK. Speak softly-and forget the stick: Corporal punishment and child physical abuse. *Am J Prev Med* 2008;35(4):364-9.

- 14\*. Shen TT, Defranco EA, Stamilio DM, Chang JJ, Muglia LJ. A population-based study of race-specific risk for placental abruption. *BMC Pregnancy Childbirth* 2008, 8:43 doi:10.1186/1471-2393-8-43.
15. Defranco EA, Chang JJ, Macones GA, Muglia LJ. The correlation in Birth Timing between Singleton and Twin Gestations in the Same Mother. *J Matern Fetal Neonatal Med* 2008;16:1-5.
16. Chang JJ, Pien G, Duntley S, Macones GA. Sleep deprivation during pregnancy and maternal and fetal outcomes: Is there a relationship? *Sleep Med Rev.* 2010;14(2):107-14. Epub 2009 Jul 21.
17. Chang JJ, Muglia LJ, Macones GA. Association of early-onset pre-eclampsia in first pregnancy with normotensive second pregnancy outcomes: A population-based study. *BJOG.* 2010;117 (8):946-953.
18. Mostello D, Chang JJ, Allen J, Luehr L, Shyken J, Leet T. Recurrent Preeclampsia: The Effect of Weight Change between Pregnancies? *Obstet & Gynecol.* 2010; 116(3):667-672.
19. Zolotor AJ, Theodore AD, Chang JJ, Laskey AL, Runyan DK. Corporal punishment and physical abuse: population-based trends for 3-11 year-old children in the United States. *Child Abuse Review.* 2011;20(1):57-66.
20. Chang JJ, Macones GA. Births outcomes of planned home births in Missouri, 1989-2005: A population-based study. *Am J Perinatol.* 2011;28(7):529-536.
21. Harper LM, Chang JJ, Macones GA. Adolescent pregnancy and weight gain: Do the Institute of Medicine recommendations apply? *Am J Obstet & Gynecol;* 2011 Aug;205(2):140.e1-8.
- 22\*. Salas J, Xaverius PK, Chang JJ. Does a medical home influence the effect of low birthweight on health outcomes? *Matern Child Health J.* 2012; Suppl 1:S143-50
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.1748-0361.
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* 2012. DOI: 10.1111/j.1748-0361.2012.00447.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)00642-X. doi: 10.1016/j.ajog.2013.06.026.
26. Dong GH, Qian ZM, Wang J, Trevathan E, Ma W, Chen W, Xaverius PK, Buckner-Petty 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? *J Perinatol*. 2014 Jan;34(1):11-5. 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, slean arrangement. and infant slean natterns: a Chinese population-based study *World J Pediatr*. 2015 Mar 9. [Epub ahead of print]
29. Chang JJ, Buchanan P, Mitchell R. Cost analysis of tonsillectomy in children using Medicaid data. *J Pediatr*:2014: Jun:164(6):1346-51.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 JF, III, Deshazo JP, Rigby FB, Chelmos 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 Jun 20. pii: S0002-9378(15)00631-6. doi: 10.1016/j.ajog.2015.06.031. [Epub ahead of print]
- 33\*. Joseph M, Elliot M, Zelicoff a, 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 Jan 20:1-7. [Epub ahead of print] DOI: 10.3109/02770903.2015.1116084.
34. Chang JJ; 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 JJ, 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):54-9. doi: 10.1038/hr.2015.98. Epub 2015 Sep 3.
- 36\*. Maya T, Louise LH, Cook C, Xian H, Chang JJ. Age at First Birth and Psychiatric Disorders in Low-income Pregnant Women. *J women Health*; 2015 ( in press)

#### **Abstract publications/Invited Publications**

1. Chang JJ, 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.* 2005; 161 (Suppl):S123.
2. Chang JJ. Associations of maternal depressive symptoms with offspring substance use from childhood to young adulthood in a national U.S. sample [Abstract]. *J Urban Health.* 2005, 82 (Suppl):v49.
3. Stamilio, DM, Chang JJ, Macones, GA. Periodontal disease and preterm birth: do the data have enough teeth to recommend screening and preventive treatment [Editorial]? *Am J Obstet Gynecol.* 2007,196 (2):93-4.
4. Stamilio DM, Gross GA, Shanks A, Defranco E, Chang JJ. Racial disparity in preterm birth: a study by Kistka et al [Discussion]. *Am J Obstet Gynecol.* 2007,196 (2):189-90.
5. Hussey JM, Chang JJ, and Kotch JB. Child maltreatment in the United States: prevalence, risk factors, and adolescent health consequences[Abstract]. *J Am Acad Child Adolesc Psychiatry* 2007;42(2):266.
6. Cahill AG, Odibo A, Willers DM, Chang JJ, Shanks A, Goetzinger K. Cervical dilation in mid-pregnancy: expectant management versus cerclage: a study by Pereira et al [discussion ]. *Am J Obstet Gynecol.* 2007 Nov;197(5):551-2; e1-5.
7. Lee L-C, Harrington RA, Chang JJ, Connors SL. Increased risk of injury in children with developmental disabilities [Abstract]. *Child: Care Health Dev.* 2007; 34 (1): 136–137.
8. Chang JJ, Muglia LJ, Macones GA. Recurrent preeclampsia and adverse birth outcomes in a population-based study [Abstract]. *Am J Obstet Gynecol.* 2008;197(6);S141.
9. Defranco E, Chang JJ, Muglia LJ. The correlation in birth timing between singleton and multifetal gestations [Abstract]. *Am J Obstet Gynecol.* 2008;197(6):S200.
10. Chang JJ, Stamilio DM, Odibo AO, Cahill AG, Macones GA. Prediction of cesarean delivery using fetal pelvic index[Abstract]. *Am J Obstet Gynecol.* 2011;204; 1 Suppl 1:S64.
11. Chang JJ, Chien LC, Macones GA. Prior preterm birth in first pregnancy and risk of small-for-gestational-age birth in second pregnancy: A population-based study[Abstract]. *Am J Obstet Gynecol.* 2012;206(1) Suppl (Jan, 2012):S22.
12. Tsai SY, Chang JJ, Pien GW. Sleep Characteristics and Gestational Weight Gain in Healthy Nulliparous women[Abstract]. *Sleep.* 2012;35.Suppl.

13. Chang JJ, Wang J, Stamilio DM, Odibo AO, Cahill AG, Macones GA. The association between Fetal-Pelvic Index and the pattern of Labor Progression. [Abstract]. Am J Obstet Gynecol. 2013;Suppl (Jan, 2013)
- 14\*. Ma YJ, Wan L, Tobo B, Macones GA, Chang JJ. Racial Disparities in the Association between Total Gestational Weight Gain and Gestational Diabetes Mellitus by Pre-pregnancy BMI. [Abstract]. Am J Obstet Gynecol. 2015;Suppl (Jan, 2015)

**Abstracts and Conference Presentation** (\*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 JJ, Hussey JM. "Racial disparity in birth outcomes for Asian Pacific Islanders in the U.S." Presented at the Society for Pediatric & Perinatal Epidemiologic Research Annual Meeting, Salt Lake City, UT, June, 2004.
4. Chang JJ, Hussey JM, Lau AS. "Immigration, generation status, and adolescent depression." Presented at Annual Meeting of American Psychology Association, Hawaii, HI, July. 2004.
5. Chang JJ, Theodore A, Martin, S, Runyan D. "Parental history of psychological intimate partner violence and child maltreatment risk in a population - based sample." Presented at the 10<sup>th</sup> Annual Maternal and Child Health Epidemiology Conference, Atlanta, GA, December, 2004.
6. Chang JJ, Kaufman JS, Halpern CT. "Association between physical activity and adolescent depressive symptoms over time from the National Longitudinal Study of Adolescent Health." Presented at the Society for Epidemiologic Research 2005 Annual Meeting, Toronto, Canada, June, 2005.
7. Chang JJ. "Maternal depressive symptoms and the trajectories of child problem behaviors in a national U.S. Sample." Presented at the 2005 MCH EPI conference, Miami, FL, December, 2005

8. Lee BK, Lee L-C, Chang, JJ, Newschaffer CJ. Increased risk of injury and accident in children with autism. Presented at the 2006 International Meeting for Autism Research, Montreal, Canada, June, 2006.
9. Lee L-C, Chang, JJ, Newschaffer CJ. Increased risk of injury and accident in children with developmental disabilities. Presented at the Society for Epidemiologic Research 2006 Annual Meeting, Seattle, WA, June, 2006
14. Chang JJ. Lifetime mental health services use by race/ethnicity among pregnant women who report ever having problems with depression in Florida: A population-based study. Presented at the 2006 MCH EPI conference, Atlanta, GA, December, 2006.
15. Barlow S, Chang JJ. National Survey of Child Health: Parent Aggravation and Risk of Childhood Obesity. Presented at the 2006 Annual Scientific Meeting for NAASO, the Obesity Society, Boston, MA, October 2006.
- 16\*. 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 accepted for presentation at the 2006 MCH EPI conference, Atlanta, GA, December, 2006.
17. Flick LH, Chang JJ, Cook CL, Homan SM, McSweeney M, Campbell C, Gallagher ME, Parnell L. Prenatal affective, anxiety and behavioral disorders and very preterm birth in a low-income community cohort. Abstract accepted for presentation at the 2006 MCH EPI conference, Atlanta, GA, December, 2006.
18. Myles T, Langford A, Joshu C. Chang JJ, Leet TL. Does gestational weight gain affect the risk of adverse maternal and infant outcomes in overweight women? Abstract accepted for presentation 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 GA. 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 FM, 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 JJ. 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. Prior preterm birth in first pregnancy and risk of small-for-gestational-age birth in second pregnancy: A population-based study. Abstract accepted for oral presentation at the Society for Maternal and Fetal Medicine 2012 Annual meeting, Dallas, TX, February, 2012.

- 31\* Bai F, Chang JJ, Leet T, Mostello, D. Is breech presentation at birth a predictor of fetal congenital anomalies? Abstract accepted for presentation at the Society for Maternal and Fetal Medicine 2012 Annual meeting, Dallas, TX, February, 2012.
32. Tsai SY, Chang JJ, Pien GW. Sleep Characteristics and Gestational Weight Gain in Healthy Nulliparous women. Abstract accepted for presentation at SLEEP 2012, 26th Annual Meeting of the Associated Professional Sleep Societies, LLC, Boston, MA, June, 2012.
33. Huang, XN, Wang, Chang JJ, HS, Wang, LH, Liu, XC, Jiang, JX, Lin, A. A Chinese Population Based Study of Feeding Method, Sleeping Arrangement, Infant Sleeping Behaviors and Patterns. Oral presentation at the 7<sup>th</sup> Asian Sleep Society Research Congress 2012, Taipei, TA, December, 2012
- 34\*. Amanda Hoeffken, A, Dora, V, Tariq, N, Flick, LH, Chang, JJ. Protective Factors Associated with Weight Gain during Pregnancy for Overweight and Obese. Abstract accepted for poster presentation at the annual meeting of American Public Health Association, San Francisco, CA, October, 2012.
35. Chang JJ Wang, J, Stamilio DM, Odibo AO, Cahill,AG, Macones,GA. The association between Fetal-Pelvic Index and the pattern of Labor Progression. Abstract accepted for poster presentation at the Society for Maternal and Fetal Medicine 2013 Annual meeting, San Francisco, CA, February, 2013
36. Xaverius P, Woolfolk C, Leung F, Wu J, Salas J, Chang JJ. Predictors of Size for Gestational Age in St. Louis City and County. Abstract accepted for poster presentation at the 34th Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine, San Francisco, CA, March, 2013
37. Chang JJ, Xian H, Cho S, Pien GW. Associations Between Sleep Duration and Age at Onset of Ever Smoking and Daily Cigarette Use among Korean Adolescents. Accepted for poster presentation at the 27<sup>th</sup> Annual Meeting of the Associated Professional Sleep Societies, LLC, Baltimore, Maryland, June 2013.
- 38\*. Tabet M, Flick L, Cook C, Chang JJ. Psychiatric Disorders and Age at First Birth in Low-Income Pregnant Women. Abstract accepted for presentation at the 2014 CityMatch leadership/MCH EPI conference, Phoenix, AZ, September, 2014.
39. Chang JJ, Strauss JF, 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. Abstract accepted for presentation at the 2014 CityMatch leadership/MCH EPI conference, Phoenix, AZ, September, 2014.
- 40\*. Joseph M, Elliot M, Chang JJ. Racial Disparity in the Association between Body Mass Index and Self-Reported Asthma in children: A population-based study. Abstract accepted for presentation at the 2014 CityMatch leadership/MCH EPI conference, Phoenix, AZ, September, 2014.

- 41\*. Jakhar S, Buelt C, Wang J, Flick L, Chang JJ. Racial Disparity in Correlates of Late Preterm births: a population-based study. Abstract accepted for presentation at the 2014 CityMatch leadership/MCH EPI conference, Phoenix, AZ, September, 2014.
- 42\*. Ma YJ, Wan L, Tobo B, Macones GA, Chang JJ. Racial Disparities in the Association between Total Gestational Weight Gain and Gestational Diabetes Mellitus by Pre-pregnancy BMI. Abstract accepted for poster presentation at the Society for Maternal and Fetal Medicine 2015 Annual meeting, San Diego, CA, February, 2015
- 43\*. Joseph M, Wang J, Pien G, Paruthi S, Mitchell R, Chang JJ. Risk Factors for Insomnia Symptoms Among Adolescents: A Population-Based Study. Abstract accepted for poster presentation at the 62th annual meeting of American Academy of Child and Adolescent Psychiatry. San Antonio, TX, October 26-31, 2015.
- 44\*. VanderKolk K, Wang J, Xian H, Flick LH, Yoo HJ, Chang JJ. Maternal depressive symptoms and age of onset of adolescent cigarette use in a U.S. national sample. Abstract accepted for poster presentation at the 62th annual meeting of American Academy of Child and Adolescent Psychiatry. San Antonio, TX, October 26-31, 2015.
45. Chang JJ, Wang J, Xian H, Flick LH. Associations of Maternal Depressive Symptoms With Offspring Cigarette Use From Childhood to Young Adulthood in a National U.S. Sample. Abstract accepted for poster presentation at the 62th annual meeting of American Academy of Child and Adolescent Psychiatry. San Antonio, TX, October 26-31, 2015.
46. Chang JJ, Harper L, Macones GA. Racial differences in the association between gestational weight gain and gestational diabetes mellitus by maternal age. Abstract accepted for poster presentation at the 11<sup>th</sup> Asia Pacific Congress in Maternal Fetal Medicine. November 28-29, 2015 Taipei, Taiwan

## Research Support

### Completed grant support

**K12RR023249/ KL2RR024994** (Chang) 7/1/2006 - 6/30/2009 75%  
NIH/NCRR \$332,965

Role: Scholar

Sleep patterns during pregnancy

**Saint Louis University President's Research Fund Award** (Chang) 3/1/2012 –  
11/30/2013 10% in-kind for academic months and

5% in summer months

Role: Principal Investigator

\$50,000

Shiftwork During Pregnancy and Risk of Preeclampsia

**NIH K01MH085976-01A2** (Chang) 7/1/2010 – 5/30/2014 75%

**NIMH**

Role: Principal Investigator \$469,809

Sleep Duration During Pregnancy and Risk of Postpartum Depression

**Saint Louis University College for Public Health and Social Justice Small Grant award** 1/6/2014 - 6/30/2014

Role: Principal Investigator \$5,000

Prematurity: A multilevel Study of Risk Factors

**Saint Louis University President's Research Fund Award** (Chang) 4/1/15-9/30/15  
5% in-kind in summer

Role: Principal Investigator \$7,096

Vitamin D and Risk of postpartum depression