

CURRICULUM VITAE

JULIE L. DANIELS, MPH, PHD

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EDUCATION

1999 Doctor of Philosophy (Epidemiology) - The University of North Carolina, Chapel Hill, NC
1995 Master of Public Health (Epidemiology) - Saint Louis University, St. Louis, MO
1989 Bachelor of Arts (Psychology) - University of Missouri, Kansas City, MO

PROFESSIONAL EXPERIENCE

2023-Present Associate Chair Department of Epidemiology, University of North Carolina, Chapel Hill NC
2002-Present Professor (2016-Present); Associate Professor (2009-2016); Assistant Professor (2002-2009) Departments of Epidemiology & Maternal and Child Health University of North Carolina, Chapel Hill NC
2020-Present Fellow, Frank Porter Graham Child Development Institute, University of North Carolina at Chapel Hill, Chapel Hill, NC
2002-Present Fellow, Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Chapel Hill, NC
2000-2002 Post-Doctoral Fellow, National Institute of Environmental Health Sciences
1997-2002 Instructor, Department of Community and Family Medicine, Duke University
1999-2000 Postdoctoral Fellow, University of North Carolina, School of Public Health
1995-1999 Research Assistant, Department of Epidemiology, University of North Carolina
1997-1998 Teaching Assistant, Department of Epidemiology, University of North Carolina
1993-1995 Research & Teaching Assistant, Saint Louis University, School of Public Health

PROFESSIONAL SERVICE ACTIVITIES

National & International Service

2018-2019 National Academy of Sciences Engineering and Medicine. Committee on a Scoping Plan to Assess the Hazards of Organohalogen Flame Retardants
2013-2023 Department of Defense/ U.S. Army Medical Research and Material Command- Autism Research Program Panel (Council Member)
2011-2020 Associate Editor, Environmental Health Perspectives

Updated May 2024

- 2015 External Advisory Review Committee Member for the Maternal-Infant Research on Environmental Chemicals (MIREC) program – Canada.
- 2015-2017 External Advisory Committee Member for the Center for Children's Environmental Health, MIND Institute, University of California, Davis.
- 2009-2011 Editorial Board, Environmental Health Perspectives
- 2008-2010 Autism Speaks – Environmental and Autism Review Board NIEHS
- 2006 NIEHS – Expert Panel Member, Use of the Vaccine Safety Data-link (VSD) to assess time trends in autism: feasibility and study design considerations.

North Carolina, University, & Departmental Service

- 2024-present SPH Inclusive Excellence Strategic Planning Task Force
- 2021-2022 Facilitator, Relational Leadership Institute, Intend Health, UNC School of Medicine
- 2020-present SPH Inclusive Excellence Council - Representative for Dept. of Epidemiology
- 2020-present Chair, Department of Epidemiology Inclusive Excellence Committee
- 2013-present Director (2016-Present), Co-Director (2013-2016, Director Dr. Anna Maria Siega-Riz), Reproductive, Perinatal, Pediatric Epidemiology T32 Training Program - sponsored by NICHD
- 2015-2019 Department of Epidemiology Admissions Committee
- 2012-2013 Department of Epidemiology Diversity Committee
- 2012, '15, '16 SPH Committee to Review of Chair/Center Directors
- 2011-2015 UNC IRB-Institutional Review Board
- 2009-present UNC Gillings School of Global Public Health Pilot Grant Review
- 2006-2011 Department of Epidemiology Graduate Studies Committee
- 2003-2006 Department of Epidemiology Admissions Committee

Leadership Focused Continuing Education

- 2021 Relational Leadership Institute
- 2021 TEAM ADVANCE Faculty Mentor Training
- 2020 Racial Equity Institute (REI) Groundwater & Phase 1

SCIENTIFIC PRODUCTS: PUBLICATIONS AND PRESENTATIONS

Peer-Reviewed Publications

** Denotes student or post-doctoral fellow's work for which JL Daniels was primary/senior mentor.*

1. *Wilkie A, Luben TJ, Rappazzo K, Foley K, Woods CG, Seere M, Richardson DB, **Daniels JL**. Long-term ambient sulfur dioxide exposure during gestation and preterm birth in North Carolina, 2003-2015. Atmospheric Environment – revisions under review.

2. *Zhang Y, Delhanty MT, Engel SM, Marshall S, O'Shea TM, Garcia T, Schieve LA, Bradley C, **Daniels JL**. Malpresentation and Autism Spectrum Disorder in The Study to Explore Early Development. *Paediatr, Perinat, Epidem*. In Press.
3. Wiggins LD, **Daniels J**, Overwyck K, Croen L, DiGuseppi C, Bradley C, Powell P, Dichter G, Moody E, Pazol K. Depressive Symptoms and Activity Engagement in Autistic Adolescents and Those with other Developmental Disabilities. *Disability Health J*. In press.
4. Ross RK, Cole SR, Edwards JK, Zivich PN, Westreich D, **Daniels JL**, Price JT, Stringer JSA. Leveraging External Validation Data: The Challenges of Transporting Measurement Error Parameters. *Epidemiology*. 2024 Mar 1;35(2):196-207. doi: 10.1097/EDE.0000000000001701. Epub 2023 Jan 30. PMID: 38079241
5. Furnier SM, Gangnon R, **Daniels JL**, Ellis Weismer S, Nadler C, Pazol K, Reyes NM, Rosenberg S, Rubenstein E, Wiggins LD, Yeargin-Allsopp M, Durkin MS. Racial and ethnic disparities in the co-occurrence of intellectual disability and autism: Impact of incorporating measures of adaptive functioning. *Autism Res*. 2024 Mar;17(3):650-667. doi: 10.1002/aur.3107. Epub 2024 Feb 28. PMID: 38415400
6. Wiggins LD, Overwyck K, **Daniels J**, Barger B, Crain H, Grzadzinski R, Moody E, Reynolds A, Reyes N, Rosenberg C, Rosenberg S, Pazol K. Risk factors and clinical correlates of sensory dysfunction in preschool children with and without autism spectrum disorder. *Autism Res*. 2024 Jan;17(1):162-171. doi: 10.1002/aur.3074. Epub 2023 Dec 15. PMID: 38099402
7. Ross RK, Cole SR, Edwards JK, Westreich D, **Daniels JL**, Stringer JSA. Accounting for nonmonotone missing data using inverse probability weighting. *Stat Med*. 2023 Oct 15;42(23):4282-4298. doi:10.1002/sim.9860. Epub 2023 Jul 31. PMID: 37525436
8. *Wilkie AA, Richardson DB, Luben TJ, Serre ML, Woods CG, **Daniels JL**. Sulfur dioxide reduction at coal-fired power plants in North Carolina and associations with preterm birth among surrounding residents. *Environ Epidemiol*. 2023 Feb 10;7(2):e241. doi: 10.1097/EE9.0000000000000241. eCollection 2023 Apr. PMID: 37064422
9. *Wilkie AA, Richardson DB, Luben TJ, Serre ML, Woods CG, **Daniels JL**. North Carolina's Changing Energy Generation Profile and Reductions in Key Air Pollutants, 2000–2019. *N C Med J*. 2022 Jul-Aug;83(4):304-310. doi: 10.18043/ncm.83.4.304.PMID: 35817451
10. Kamai EM, **Daniels JL**, Delamater PL, Lanphear BP, MacDonald Gibson J, Richardson DB. Patterns of Children's Blood Lead Screening and Blood Lead Levels in North Carolina, 2011-2018- Who Is Tested, Who Is Missed? *Environ Health Perspect*. 2022 Jun;130(6):67002. doi: 10.1289/EHP10335. Epub 2022 Jun 1. PMID: 35647633
11. *McGuinn LA, Wiggins LD, Volk HE, Di Q, Moody EJ, Kasten E, Schwartz J, Wright RO, Schieve LA, Windham GC, **Daniels JL**. Pre- and Postnatal Fine Particulate Matter Exposure and Childhood Cognitive and Adaptive Function. *Int J Environ Res Public Health*. 2022 Mar 22;19(7):3748. PMID: 35409432
12. Lyall K, Ning X, Aschner JL, Avalos LA, Bennett DH, Bilder DA, Bush NR, Carroll KN, Chu SH, Croen LA, Dabelea D, **Daniels JL**, Duarte C, Elliott AJ, Fallin MD, Ferrara A, Hertz-Picciotto I, Hipwell AE, Jensen ET, Johnson SL, Joseph RM, Karagas M, Kelly RS, Lester BM, Margolis A, McEvoy CT, Messinger D, Neiderhiser JM, O'Connor TG, Oken E, Sathyanarayana S, Schmidt RJ, Sheinkopf SJ, Talge NM, Turi KN, Wright RJ, Zhao Q, Newschaffer C, Volk HE, Ladd-Acosta C, Cardiometabolic Pregnancy Complications in Association with Autism-Related Traits as Measured by the Social Responsiveness Scale in ECHO. *Environmental Influences On Child Health Outcomes*. *Am J Epidemiol*. 2022 Mar 31. Online ahead of print. PMID: 35362025

13. Hertz-Picciotto I, Korrick SA, Ladd-Acosta C, Karagas MR, Lyall K, Schmidt RJ, Dunlop AL, Croen LA, Dabelea D, **Daniels JL**, Duarte CS, Fallin MD, Karr CJ, Lester B, Leve LD, Li Y, McGrath M, Ning X, Oken E, Sagiv SK, Sathyanaraya S, Tylavsky F, Volk HE, Wakschlag LS, Zhang M, O'Shea TM, Musci RJ; program collaborators for Environmental influences on Child Health Outcomes (ECHO). Maternal tobacco smoking and offspring autism spectrum disorder or traits in ECHO cohorts. *Autism Res.* 2022 Mar;15(3):551-569. Epub 2022 Feb 24. PMID: 35199959
14. Bradley CB, Tapia AL, DiGuseppi CG, Kepner MW, Kloetzer JM, Schieve LA, Wiggins LD, Windham GC, **Daniels JL**. Reasons for participation in a child development study: Are cases with developmental diagnoses different from controls? *Paediatr Perinat Epidemiol.* 2022 May;36(3):435-445. doi: 10.1111/ppe.12861. PMID: 35107836
15. Reynolds AM, Soke GN, Sabourin KR, Croen LA, **Daniels JL**, Fallin MD, Kral TVE, Lee LC, Newschaffer CJ, Pinto-Martin JA, Schieve LA, Sims A, Wiggins L, Levy SE. Gastrointestinal Symptoms in 2- to 5-Year-Old Children in the Study to Explore Early Development. *J Autism Dev Disord.* 2021 Nov;51(11):3806-3817. Epub 2021 Jan 4. PMID: 33394243
16. DiGuseppi C, Crume T, Van Dyke J, Sabourin KR, Soke GN, Croen LA, **Daniels JL**, Lee LC, Schieve LA, Windham GC, Friedman S, Robinson Rosenberg C. Peri-Pregnancy Cannabis Use and Autism Spectrum Disorder in the Offspring: Findings from the Study to Explore Early Development. *J Autism Dev Disord.* 2002:5064-5071. doi: 10.1007/s10803-021-05339-4. PMID: 34767135
17. Gray CL, Whetten K, **Daniels JL**, Hudgens MG, Pettifor AE, Hobbie AM, Thielman NM, Dubie ME, Itemba D, Madan I, Vann V, Wasonga AI, Manongi R, Ostermann J, Whetten RA, Pence BW. Family Composition and Stability for Orphans: A Longitudinal Study of Well-Being in 5 Low- and Middle-Income Countries. *Int J Public Health.* 2021 Dec 21;66:1604057. eCollection 2021. PMID: 34992514
18. Wiggins LD, Tian LH, Rubenstein E, Schieve L, **Daniels J**, Pazol K, DiGuseppi C, Barger B, Moody E, Rosenberg S, Bradley C, Hsu M, Robinson Rosenberg C, Christensen D, Crume T, Pandey J, Levy SE. Features that best define the heterogeneity and homogeneity of autism in preschool-age children: A multisite case-control analysis replicated across two independent samples. *Autism Res.* 2022 Mar;15(3):539-550. Epub 2021 Dec 29. PMID: 34967132
19. Wiggins LD, Nadler C, Rosenberg S, Moody E, Reyes N, Reynolds A, Alexander A, **Daniels J**, Thomas K, Giarelli E, Levy SE. Many Young Children with Autism Who Use Psychotropic Medication Do Not Receive Behavior Therapy: A Multisite Case-Control Study. *J Pediatr.* 2021 May;232:264-271. Epub 2021 Jan 22. PMID: 33493493
20. Choi G, Keil AP, Richardson DB, **Daniels JL**, Hoffman K, Villanger GD, Sakhi AK, Thomsen C, Zeiner P, Reichborn-Kjennerud T, Aase H, Engel SM. Pregnancy exposure to organophosphate esters and the risk of attention-deficit hyperactivity disorder in the Norwegian Mother, Father and Child Cohort Study. *Environ Int.* 2021 Sep;154:106549. Epub 2021 Apr 25. PMID: 33910116
21. Choi G, Keil AP, Villanger GD, Richardson DB, **Daniels JL**, Hoffman K, Sakhi AK, Thomsen C, Herring AH, Drover SS, Nethery R, Aase H, Engel SM. Pregnancy exposure to common-detect organophosphate esters and phthalates and maternal thyroid function. *Sci Total Environ.* 2021 Aug 15;782:146709. Epub 2021 Mar 24. PMID: 33839654
22. Powell PS, Pazol K, Wiggins LD, **Daniels JL**, Dichter GS, Bradley CB, Pretzel R, Kloetzer J, McKenzie C, Scott A, Robinson B, Sims AS, Kasten EP, Fallin MD, Levy SE, Dietz PM, Cogswell ME. Health Status and Health Care Use Among Adolescents Identified With and Without Autism in Early Childhood - Four U.S. Sites, 2018-2020. *MMWR Morb Mortal Wkly Rep.* 2021 Apr 30;70(17):605-611 PMID: 33914722

23. Hiruma L, Pretzel RE, Tapia AL, Bodfish JW, Bradley C, Wiggins L, Hsu M, Lee LC, Levy SE, **Daniels J**. A Distinct Three-Factor Structure of Restricted and Repetitive Behaviors in an Epidemiologically Sound Sample of Preschool-Age Children with Autism Spectrum Disorder. *J Autism Dev Disord*. 2021 Oct;51(10):3456-3468. Epub 2021 Jan 2. PMID: 33387232
24. *Cordero C, Schieve LA, Croen LA, Engel SM, Maria Siega-Riz A, Herring AH, Vladutiu CJ, Seashore CJ, **Daniels JL**. Neonatal jaundice in association with autism spectrum disorder and developmental disorder. *J Pediatrics*. 2020 Feb;40(2):219-225. PMID: 31388117
25. Venkatesh KK, Leviton A, Hecht JL, Joseph RM, Douglass LM, Frazier JA, **Daniels JL**, Fry RC, O'Shea TM, Kuban KCK. Histologic chorioamnionitis and risk of neurodevelopmental impairment at age 10 years among extremely preterm infants born before 28 weeks of gestation. *Am J Obstet Gynecol*. 2020 Nov;223(5):745.e1-745.e10. PMID: 32387324
26. Shaw KA, Maenner MJ, Baio J; EdS1, Washington A, Christensen DL, Wiggins LD, Pettygrove S, Andrews JG, White T, Rosenberg CR, Constantino JN, Fitzgerald RT, Zahorodny W, Shenouda J, **Daniels JL**, Salinas A, Durkin MS, Dietz PM. Early Identification of Autism Spectrum Disorder Among Children Aged 4 Years - Early Autism and Developmental Disabilities Monitoring Network, Six Sites, United States, 2016. *MMWR Surveill Summ*. 2020 Mar 27;69(3):1-11. PMID: 32214075
27. Maenner MJ, Shaw KA, Baio J; EdS1, Washington A, Patrick M, DiRienzo M, Christensen DL, Wiggins LD, Pettygrove S, Andrews JG, Lopez M, Hudson A, Baroud T, Schwenk Y, White T, Rosenberg CR, Lee LC, Harrington RA, Huston M, Hewitt A; PhD-7, Esler A, Hall-Lande J, Poynter JN, Hallas-Muchow L, Constantino JN, Fitzgerald RT, Zahorodny W, Shenouda J, **Daniels JL**, Warren Z, Vehorn A, Salinas A, Durkin MS, Dietz PM. Prevalence of Autism Spectrum Disorder Among Children Aged 8 Years - Autism and Developmental Disabilities Monitoring Network, 11 Sites, United States, 2016. *MMWR Surveill Summ*. 2020 Mar 27;69(4):1-12. PMID: 32214087
28. *McGuinn LA, Windham GC, Kalkbrenner AE, Bradley C, Di Q, Croen LA, Fallin MD, Hoffman K, Ladd-Acosta C, Schwartz J, Rappold AG, Richardson DB, Neas LM, Gammon MD, Schieve LA, **Daniels JL**. Early Life Exposure to Air Pollution and Autism Spectrum Disorder: Findings from a Multisite Case-Control Study. *Epidemiology*. 2020 Jan;31(1):103-114. PMID: 31592868
29. *McGuinn LA, Windham GC, Messer LC, Di Q, Schwartz J, Croen LA, Moody EJ, Rappold AG, Richardson DB, Neas LM, Gammon MD, Schieve LA, **Daniels JL**. Air pollution, neighborhood deprivation, and autism spectrum disorder in the Study to Explore Early Development. *Environ Epidemiol*. 2019 Oct;3(5):e067. PMID: 32478281
30. *Doherty BT, Hammel SC, **Daniels JL**, Stapleton HM, Hoffman K. Organophosphate Esters: Are These Flame Retardants and Plasticizers Affecting Children's Health? *Curr Environ Health Rep*. 2019 Dec;6(4):201-213. PMID: 31755035
31. Patrick ME, Shaw KA, Dietz PM, Baio J, Yeargin-Allsopp M, Bilder DA, Kirby RS, Hall-Lande JA, Harrington RA, Lee LC, Lopez MLC, **Daniels J**, Maenner. Prevalence of intellectual disability among eight-year-old children from selected communities in the United States, 2014. *MJ. Disabil Health J*. 2021 Apr;14(2):101023. Epub 2020 Nov 15. PMID: 33272883
32. National Academies of Sciences, Engineering, and Medicine. 2019. A Class Approach to Hazard Assessment of Organohalogen Flame Retardants. Washington, DC: The National Academies Press. <https://doi.org/10.17226/25412>.
33. *Cordero C, Windham GC, Schieve LA, Fallin MD, Croen LA, Siega-Riz AM, Engel SM, Herring AH, Stuebe AM, Vladutiu CJ, **Daniels JL**. Maternal diabetes and hypertensive disorders in association with autism spectrum disorder. *Autism Res*. 2019 Jun;12(6):967-975. PMID: 30969030
34. *Chawla D, **Daniels JL**, Benjamin-Neelon SE, Fuemmeler BF, Hoyo C, Buckley JP. Racial and ethnic differences in predictors of vitamin D among pregnant women in south-eastern USA. *J Nutr Sci*. 2019 Feb 28;8:e8. PMID: 30854201

35. *Doherty BT, Hoffman K, Keil AP, Engel SM, Stapleton HM, Goldman BD, Olshan AF, **Daniels JL**. Prenatal exposure to organophosphate esters and behavioral development in young children in the Pregnancy, Infection, and Nutrition Study. *Neurotoxicology*. 2019 Apr 3;73:150-160. PMID: 30951742
36. Reinhartsen DB, Tapia AL, Watson L, Crais E, Bradley C, Fairchild J, Herring AH, **Daniels J**. Expressive Dominant Versus Receptive Dominant Language Patterns in Young Children: Findings from the Study to Explore Early Development. *J Autism Dev Disord*. 2019 Apr 1. PMID: 30937735
37. Christensen DL, Maenner MJ, Bilder D, Constantino JN, **Daniels J**, Durkin MS, Fitzgerald RT, Kurzius-Spencer M, Pettygrove SD, Robinson C, Shenouda J, White T, Zahorodny W, Pazol K, Dietz P. Prevalence and Characteristics of Autism Spectrum Disorder Among Children Aged 4 Years - Early Autism and Developmental Disabilities Monitoring Network, Seven Sites, United States, 2010, 2012, and 2014. *MMWR Surveill Summ*. 2019 Apr 12;68(2):1-19. PMID:30973853
38. *Doherty BT, Hoffman K, Keil AP, Engel SM, Stapleton HM, Goldman BD, Olshan AF, **Daniels JL**. Prenatal exposure to organophosphate esters and cognitive development in young children in the Pregnancy, Infection, and Nutrition Study. *Environ Res*. 2019 Feb;169:33-40. PMID: 30408751
39. Windham GC, Anderson M, Lyall K, **Daniels JL**, Kral TVE, Croen LA, Levy SE, Bradley CB, Cordero C, Young L, Schieve LA. Maternal Pre-pregnancy Body Mass Index and Gestational Weight Gain in Relation to Autism Spectrum Disorder and other Developmental Disorders in Offspring. *Autism Res*. 2019 Feb;12(2):316-327. PMID: 30575327
40. *Rubenstein E, Wiggins LD, Schieve LA, Bradley C, DiGuseppi C, Moody E, Pandey J, Pretzel RE, Howard AG, Olshan AF, Pence BW, **Daniels J**. Associations between parental broader autism phenotype and child autism spectrum disorder phenotype in the Study to Explore Early Development. *Autism*. 2019 Feb;23(2):436-448. PMID: 29376397
41. Christensen DL, Braun KVN, Baio J, Bilder D, Charles J, Constantino JN, **Daniels J**, Durkin MS, Fitzgerald RT, Kurzius-Spencer M, Lee LC, Pettygrove S, Robinson C, Schulz E, Wells C, Wingate MS, Zahorodny W, Yeargin-Allsopp M. Prevalence and Characteristics of Autism Spectrum Disorder Among Children Aged 8 Years - Autism and Developmental Disabilities Monitoring Network, 11 Sites, United States, 2012. *MMWR Surveill Summ*. 2018 Nov 16;65(13):1-23. PMID: 30439868
42. House JS, Mendez M, Maguire RL, Gonzalez-Nahm S, Huang Z, **Daniels J**, Murphy SK, Fuemmeler BF, Wright FA, Hoyo C. Periconceptional Maternal Mediterranean Diet Is Associated With Favorable Offspring Behaviors and Altered CpG Methylation of Imprinted Genes. *Front Cell Dev Biol*. 2018 Sep 7;6:107. PMID: 30246009
43. *Rubenstein E, Schieve L, Wiggins L, Rice C, Van Naarden Braun K, Christensen D, Durkin M, **Daniels J**, Lee LC. Trends in documented co-occurring conditions in children with autism spectrum disorder, 2002-2010. *Res Dev Disabil*. 2018 Dec;83:168-178. PMID: 30227350
44. *Chawla D, Yang YC, Desrosiers TA, Westreich DJ, Olshan AF, **Daniels JL**. Past-month cannabis use among U.S. individuals from 2002-2015: An age-period-cohort analysis. *Drug Alcohol Depend*. 2018 Dec 1;193:177-182. PMID: 30384326
45. *Rubenstein E, Young JC, Croen LA, DiGuseppi C, Dowling NF, Lee LC, Schieve L, Wiggins LD, **Daniels J** Brief Report: Maternal Opioid Prescription from Preconception Through Pregnancy and the Odds of Autism Spectrum Disorder and Autism Features in Children. *J Autism Dev Disord*. 2018 Aug 21. PMID:30132098 . Erratum in: *J Autism Dev Disord*..PMID:30132098
46. Wiggins LD, Rubenstein E, **Daniels J**, DiGuseppi C, Yeargin-Allsopp M, Schieve LA, Tian LH, Sabourin K, Moody E, Pinto-Martin J, Reyes N, Levy SE. A Phenotype of Childhood Autism Is Associated with Preexisting Maternal Anxiety and Depression. *J Abnorm Child Psychol*. 2018 Aug 21. PMID: 30128718

47. Kral TV, Chittams J, Bradley CB, **Daniels JL**, DiGuseppi CG, Johnson SL, Pandey J, PintoMartin JA, Rahai N, Ramirez A, Schieve LA, Thompson A, Windham G, York W, Young L, Levy SE. Early life influences on child weight outcomes in the Study to Explore Early Development. *Autism*. 2019 May;23(4):954-962. PMID:30102071
48. Croen LA, Qian Y, Ashwood P, **Daniels JL**, Fallin D, Schendel D, Schieve LA, Singer AB, Zerbo O. Family history of immune conditions and autism spectrum and developmental disorders: Findings from the study to explore early development. *Autism Res*. 2019 Jan;12(1):123-135. PMID: 30095240
49. *Rubenstein E, Durkin MS, Harrington RA, Kirby RS, Schieve LA, **Daniels J**. Relationship Between Advanced Maternal Age and Timing of First Developmental Evaluation in Children with Autism. *J Dev Behav Pediatr*. 2018 Jul 12. PMID: 30004996
50. Hoffman K, Stapleton HM, Lorenzo A, Butt CM, Adair L, Herring AH, **Daniels JL**. Prenatal exposure to organophosphates and associations with birthweight and gestational length. *Environ Int*. 2018 Apr 23;116:248-254. PMID: 29698901
- a. Baio J, Wiggins L, Christensen DL, Maenner MJ, **Daniels J**, Warren Z, Kurzius-Spencer M, Zahorodny W, Robinson Rosenberg C, White T, Durkin MS, Imm P, Nikolaou L, Yeargin-Allsopp M, Lee LC, Harrington R, Lopez M, Fitzgerald RT, Hewitt A, Pettygrove S, Constantino JN, Vehorn A, Shenouda J, Hall-Lande J, Van Naarden Braun K, Dowling NF. Prevalence of Autism Spectrum Disorder Among Children Aged 8 Years - Autism and Developmental Disabilities Monitoring Network, 11 Sites, United States, 2014. *MMWR Surveill Summ*. 2018 Apr 27;67(6):1-PMID: 29701730
51. Bradley CB, Browne EN, Alexander AA, Collins J, Dahm JL, DiGuseppi CG, Levy SE, Moody EJ, Schieve LA, Windham GC, Young L, **Daniels JL**. Demographic and Operational Factors Predicting Study Completion in a Multisite Case-Control Study of Preschool Children. *Am J Epidemiol*. 2018 Mar 1;187(3):592-603. PMID: 29506195
52. **Daniels JL**. Considerations for Studying Folate Beyond the Typical Range of Exposure. *Paediatr Perinat Epidemiol*. 2018 Jan;32(1):112-113. PMID: 29165832
53. Schieve LA, Tian LH, Drews-Botsch C, Windham GC, Newschaffer C, **Daniels JL**, Lee LC, Croen LA, Danielle Fallin M. Autism spectrum disorder and birth spacing: Findings from the study to explore early development (SEED). *Autism Res*. 2018 Jan;11(1):81-94. PMID: 29164825
54. Furlong M, Herring AH, Goldman BD, **Daniels JL**, Wolff MS, Engel LS, Engel SM. Early Life Characteristics and Neurodevelopmental Phenotypes in the Mount Sinai Children's Environmental Health Center. *Child Psychiatry Hum Dev*. 2017 Nov 24. PMID: 29177988
55. *Chawla D, Fuemmeler B, Benjamin-Neelon SE, Hoyo C, Murphy S, **Daniels JL**. Early prenatal vitamin D concentrations and social-emotional development in infants. *J Matern Fetal Neonatal Med*. 2017 Dec 4:1-8. PMID: 29157031
56. *Singer AB, Aylsworth AS, Cordero C, Croen LA, DiGuseppi C, Fallin MD, Herring AH, Hooper SR, Pretzel RE, Schieve LA, Windham GC, **Daniels JL**. Prenatal Alcohol Exposure in Relation to Autism Spectrum Disorder: Findings from the Study to Explore Early Development (SEED). *Paediatr Perinat Epidemiol*. 2017 Nov;31(6):573-582. Epub 2017 Sep 7. PMID: 28881390
57. Kinlaw AC, Stürmer T, Lund JL, Pedersen L, Kappelman MD, **Daniels JL**, Frøslev T, Mack CD, Sørensen HT. Trends in Antibiotic Use by Birth Season and Birth Year. *Pediatrics*. 2017 Sep;140(3). PMID: 28808074
58. Parrish JW, Shanahan ME, Schnitzer PG, Lanier P, **Daniels JL**, Marshall SW. Quantifying sources of bias in longitudinal data linkage studies of child abuse and neglect: measuring impact of

- outcome specification, linkage error, and partial cohort follow-up. *Inj Epidemiol*. 2017 Dec;4(1):23. PMID: 28762156
59. Furlong MA, Herring A, Buckley JP, Goldman BD, **Daniels JL**, Engel LS, Wolff MS, Chen J, Wetmur J, Barr DB, Engel SM. Prenatal exposure to organophosphorus pesticides and childhood neurodevelopmental phenotypes. *Environ Res*. 2017 Oct;158:737-747. PMID: 28743040
60. Parrish JW, Schnitzer PG, Lanier P, Shanahan ME, **Daniels JL**, Marshall SW. *Classification of maltreatment-related mortality by Child Death Review teams: How reliable are they?* *Child Abuse Negl*. 2017 Mar 30;67:362-370. PMID: 28365427
61. Hoffman K, Butt CM, Webster TF, Preston EV, Hammel SC, Makey C, Lorenzo AM, Cooper EM, Carignan C, Meeker JD, Hauser R, Soubry A, Murphy SK, Price TM, Hoyo C, Mendelsohn E, Congleton J, **Daniels JL**, Stapleton HM. Temporal Trends in Exposure to Organophosphate Flame Retardants in the United States. *Environ Sci Technol Lett*. 2017 Mar 14;4(3):112-118. PMID: 28317001
62. *Rappazzo KM, Lobdell DT, Messer LC, Poole C, **Daniels JL**. Comparison of gestational dating methods and implications for exposure-outcome associations: an example with PM2.5 and preterm birth. *Occup Environ Med*. 2017 Feb;74(2):138-143. PMID: 27919061
63. Martin CL, Siega-Riz AM, Sotres-Alvarez D, Robinson WR, **Daniels JL**, Perrin EM, Stuebe AM. Maternal Dietary Patterns during Pregnancy Are Associated with Child Growth in the First 3 Years of Life. *J Nutr*. 2016 Nov;146(11):2281-2288. PMID: 27683873
64. Hoffman K, Lorenzo A, Butt CM, Adair L, Herring AH, Stapleton HM, **Daniels JL**. Predictors of urinary flame retardant concentration among pregnant women. *Environ Int*. 2016 Oct 13. pii: S0160-4120(16)30566-9. PMID: 27745946
65. Singer AB, Windham GC, Croen LA, **Daniels JL**, Lee BK, Qian Y, Schendel DE, Fallin MD, Burstyn I. Maternal Exposure to Occupational Asthmagens During Pregnancy and Autism Spectrum Disorder in the Study to Explore Early Development. *J Autism Dev Disord*. 2016 Aug 10. PMID: 27511194
66. Martin CL, Siega-Riz AM, Sotres-Alvarez D, Robinson WR, **Daniels JL**, Perrin EM, Stuebe AM. Maternal Dietary Patterns are Associated with Lower Levels of Cardiometabolic Markers during Pregnancy. *Paediatr Perinat Epidemiol*. 2016 May;30(3):246-55 PMID: 26848932
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Oral and Poster Presentations

*List includes only presentations by JL Daniels or those by students or post-doctoral fellows under JL Daniels mentorship, which are indicated by an *.*

1. *McGuinn LA, Windham GC, Kalkbrenner A, Di Q, Schwartz J, Neas L, Rappold A, Richardson DB, Schieve LA, Daniels JL. Pre- and Postnatal Air Pollution Exposure and Autism Spectrum Disorder: Findings from the Study to Explore Early Development. Submitted: International Society for Environmental Epidemiology Annual Meeting. Utrecht, Netherlands, August 25-28, 2019.
2. *McGuinn LA, Windham GC, Kalkbrenner A, Croen LA, , Fallin MD, Ladd-Acosta C, Schwartz J, Di Q, Bradley C, Gammon M, Neas L, Rappold A, Richardson DB, Schieve LA, Daniels JL. Early Life Exposure to Air Pollution and Autism Spectrum Disorder: Findings from the Study to Explore Early Development. Poster presentation. International Society for Autism Research Annual Meeting. Montreal, Canada, May 1-4, 2019.
3. *Doherty B, Hoffman K, Engel S, Olshan A, Goldman B, Stapleton H, Daniels J. Prenatal Exposure to Organophosphate Esters and Cognitive and Behavioral Development. Society for Perinatal and Pediatric Epidemiology Research, Baltimore, MD 2018.
4. *Chawla D, Desrosiers T, Daniels J, Westreich D, Yang C, Keil A, Gilboa S, Reefhuis J, van Gelder M, Olshan A, and the National Birth Defects Prevention Study. Paternal preconception

cannabis use and risk of birth defects in the National Birth Defects Prevention Study. Society for Epidemiology Research, Baltimore, MD 2018.

5. McGuinn L, Windham G, Croen L, Schieve L, Fallin MD, Gammon M, Rappold A, Richardson D, Messer L, Daniels J. Air Pollution Exposure, Neighborhood Deprivation, and Autism Spectrum Disorder. Oral presentation. International Society for Environmental Epidemiology Annual Meeting. Ottawa, Canada, August 27, 2018.
6. McGuinn L, Daniels J. Early life exposure to air pollution and autism spectrum disorder: Preliminary findings from the Study to Explore Early Development. Oral presentation. Environmental Epidemiology of Autism Research Network (EEARN) Meeting. San Francisco, CA, May 12, 2017.
7. *(Invited)* **Daniels JL**. PBDEs: Concentration in Human Milk, Sources of Variability, and Infant Development & Growth. North Carolina State School of Veterinary Medicine, August 22, 2016.
8. Moderator, Plenary Session II: Timing and Reproductive Outcomes. Society for Pediatric and Perinatal Epidemiology, Miami, FL 2016
9. *Singer AB, Aylsworth AS, Croen LA, DiGuseppi C, Fallin MD, Hooper SR, Pretzel RE, Schieve LA, Windham GC, **Daniels JL**. Prenatal alcohol exposure and autism spectrum disorder in the Study to Explore Early Development (SEED). Society for Pediatric and Perinatal Epidemiology, Miami, FL 2016
10. *Cordero C, Windham G, Fallin MD, Croen LA, Thompson W, Schieve LA, **Daniels JL**. Diabetes and Hypertension in pregnancy in association with autism spectrum disorder in the child. Society for Pediatric and Perinatal Epidemiology, Miami, FL 2016
11. *Cordero C, Windham G, Fallin MD, Croen LA, Thompson W, Schieve LA, **Daniels JL**. Diabetes and Hypertension in pregnancy in association with autism spectrum disorder in the child. Oral Presentation - *International Meeting for Autism Research*, Baltimore, MD. May 2016.
12. *(Invited)* **Daniels JL**. Autism Epidemiology: Trends in Prevalence and Population-Based Research. Investigator Forum - Carolina Institute for Developmental Disabilities. December 8, 2015.
13. **Daniels JL**, Rubenstein E, Cordero C, Newschaffer CJ, Park BY, Croen L, Fallin D, Levy S, Pinto-Martin J, Schieve L, Schendel D, Windham G. Association of preterm birth and both autism spectrum disorder and developmental disabilities. Poster at Society for Perinatal and Pediatric Epidemiology. Denver, CO. June 2015.
14. *Cordero C, Croen L, Fallin M, Schieve L, Thompson W, Windham G, **Daniels J**. Agreement of perinatal data from maternal interview and medical records in a case-control study. Poster at Society for Perinatal and Pediatric Epidemiology. Denver, CO. June 2015.
15. Rubenstein E, Rice CE, Yenokyan G, Schieve L, Christensen D, Durkin MS, Bakian A, Kirby RS, **Daniels J**, Rosenberg SA, Preskitt J, Lee LC. Utility of Documented Special Education Exceptionality Categories for ASD Prevalence Estimation among Children Identified with ASD in the ADDM Network. Poster. International Meeting for Autism Research. Salt Lake City, UT. 2015
16. *(Invited)* **Daniels JL**. The Epidemiology of Autism. Community Forum - Carolina Institute for Developmental Disabilities. December 10, 2014.
17. *Cordero C, **Daniels JL**, Mendez MA, Murphy SK, Hoyo C. Is Maternal report of dietary folate intake and folic acid supplement use associated with red blood cell folate during pregnancy? Society for Perinatal and Pediatric Epidemiology Research. Seattle, WA. 2014.

18. Singer AB, Windham GC, Croen LA, **Daniels J**, Lee BK, Schendel, DE, Fallin MD, Burstyn I.
Parental Exposure to Occupational Asthmagens and Risk of Autism Spectrum Disorders in the Study to Explore Early Development. International Meeting For Autism Research. Atlanta, GA. 2014.
19. *(Invited)* **Daniels JL**. Autism Etiology: What we know and how to learn more. Centers for Disease Control and Prevention, Public Health Grand Rounds – Atlanta, GA - webcast. April 22, 2014
20. *Rubenstein E, Rice CE, VanNaarden Braun K, Schieve LA, Durking MS, Christensen D, Bakian A V, Wiggins LD, **Daniels J**, King LB, Lee LC. Trends in ASD Co-Occurring Diagnoses in Autism and Developmental Disabilities Monitoring Network. International Meeting For Autism Research. Atlanta, GA. 2014.
21. *Rappazzo KM, **Daniels JL**, Messer LC, Poole C, Lobdell DT. The sensitivity of length of pregnancy using clinical estimate of gestation versus last menstrual period: an example with particulate matter and preterm birth. Poster at the Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research. Boston, MA. 2013.
22. Kalkbrenner AE, Windham GC, Seere ML, Akita Y, Wang X, Thayer BP, **Daniels JL**. Exposure to ambient course particulate matter by gestational period and autism spectrum disorders in North Carolina and California. Society for Epidemiologic Research. Boston, MA. 2013.
23. *Hoffman K, **Daniels JL**, Stapleton HM. Urinary Organophosphate Flame Retardant Measurements and Variability in North Carolina Pregnant Women. Brominated Flame Retardants Annual Meeting, San Diego, CA. 2013.
24. *Rappazzo KM, **Daniels JL**, Messer LC, Poole C, Lobdell DT. Particulate matter, its elemental carbon fraction, and preterm birth. Poster at International Society for Environmental Epidemiology, Columbus, SC 2012
25. *Rappazzo KM, **Daniels JL**, Messer LC, Poole C, Lobdell DT. Particulate matter and preterm birth. Poster at the Society for Epidemiologic Research, Montreal. 2012.
26. *Kalkbrenner AE, Watkins SE, Hoffman K, Bell P, **Daniels JL**. Sensitivity of Autism Spectrum Disorder Prevalence Estimates to Private and Home School Enrollment and Denominator Choice in North Carolina. Poster at International Meeting for Autism Research, Toronto 2012.
27. DiGuseppi C, **Daniels J**, Fallin D, Rosenberg S, et al. Demographic Profile of Families and Children enrolled in the Study to Explore Early Development (SEED): A Case-control Study of Autism Spectrum Disorder. Poster at International Meeting for Autism Research. Toronto, 2012.
28. *(Invited)* **Daniels JL**. Trends in autism prevalence and the role of the environment. National Institute of Environmental Health Sciences. August 8, August 2011
29. *(Invited)* **Daniels JL**. Autism Trends: Rates and Research. May 19, 2011 TEACCH Annual Conference, NC
30. *Hoffman K, Kalkbrenner AE, **Daniels JL**. Spatial Analysis of Autism Spectrum Disorders in Central North Carolina Using Generalized Additive Models. Society for Epidemiologic Research, Montreal, 2011
31. *Kalkbrenner AE, **Daniels JL**, Poole C, Emch M. Residential Mobility of Children and the Potential for Control Selection Bias. Society for Epidemiologic Research, Montreal, 2011
32. *Kalkbrenner AE, **Daniels JL**, Braun JM, Cunniff C, Durkin M, Lee LC, Nicholas JS, Pettygrove S. Maternal smoking during pregnancy and prevalence of autism spectrum disorders. International Meeting for Autism Research, 2010.

33. *Keil A, **Daniels JL**, Hertz-Piocciotto. Prenatal Imidacloprid Exposure and Subsequent Diagnosis of Autism Spectrum Disorder in a California Case-Control Study. Prenatal Programming and Toxicology Annual Meeting, December 2009.
34. Daniels JL. PBDE Concentration in Human Milk, Sources of Variability, Infant Development & Growth. Environmental Protection Agency (and by webcast), *(Invited)* July 15, 2009.
35. *Kalkbrenner AE, **Daniels JL**, Poole, C, Chen JC, Emch M, Morrissey J. Geographic Access to Health Services and Age at Autism Diagnosis. International Meeting for Autism Research, 2009.
36. Dickinson M, **Daniels J**, Horney J. Barriers to Contraceptive Use in Tasba-Pri, Nicaragua. Reproductive Health 2010, joint meeting of the Association of Reproductive Health Professionals, Planned Parenthood Federation of America, and Society of Family Planning.
37. *Visness CM, **Daniels JL**, Kaufman JS, Yeatts K, London S, Siega-Riz AM, Zeldin DC. Childhood Obesity is Associated with Both Atopy and Current Asthma. American Academy of Allergy, Asthma, and Immunology Annual Meeting, March 13 -17, 2009, Washington, DC
38. *Braun J, **Daniels JL**, Kalkbrenner A. The Effect of Prenatal Tobacco Smoke Exposure on Intellectual Disabilities Among 8-Year Old Children in Arkansas, Georgia, and North Carolina. 2008 Joint ISEE-ISEA Conference, Pasadena, CA, October, 2008.
39. The Study to Explore Early Development (SEED): a multi-site epidemiologic study by the Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE) Network. International Meeting for Autism Research, London, UK. June 2008.
40. *Pan IJ, **Daniels J**, Goldman BD, Herring AH, Siega-Riz AM. Lactational exposure to polychlorinated biphenyls, dichlorodiphenyldichloroethylene and infant development: An analysis of the PIN Babies Study. Society for Pediatric and Perinatal Epidemiology Annual Meeting. Chicago, IL. June 2008.
41. *Cassell C, Meyer R, **Daniels J**. Health Care Costs Among Children with and without Orofacial Clefts in North Carolina. ACPA, 2008.
42. *Cassell C, Meyer R, **Daniels JL**. Prioritizing a Research Agenda for Orofacial Clefts. Cleft Palate Craniofacial Journal, Volume 44, Number 4, July 2007.
43. **Daniels JL**, Forssen UM, Cnattingius S, Hultman CM, Feychting M, Savitz DA, Sparen S. Parental psychiatric disorders associated with autism. Society for Pediatric and Perinatal Epidemiology Annual Meeting. Boston, MA. June 2007.
44. *Cassell CH, Meyer R, **Daniels JL**. Timeliness of services among children with orofacial clefts on Medicaid in NC, 1995-2002. American Public Health Association Annual Meeting 2007.
45. **Daniels JL**. Autism Trends: Rates and Research. Medical University of South Carolina. *(Invited)* April 16, 2007.
46. *Cassell CH, Meyer R, Howell E, **Daniels JL**. Timeliness of Cleft Lip/Palate Surgery among Children with Orofacial Clefts. The American Cleft Palate-Craniofacial Annual Meeting. April 2007.
47. Thomas KC, McConville R, Ellis A, McLaurin C, **Daniels J**, Morrissey J. Mandates for insurance coverage of autism in the US. International Meeting for Autism Research. Seattle, WA, May 2007.
48. *Kalkbrenner AE, **Daniels JL**, Lanphear BP. Cigarette smoking during pregnancy and mental retardation in the National Collaborative Perinatal Project. Poster presented at the 38th Annual Meeting of the Society for Epidemiologic Research. Toronto, Canada 2005.
49. **Daniels JL**. Fish Consumption and Reproductive and Developmental Outcomes 2005 National Forum on Contaminants in Fish. *(Invited)* September 2005. Baltimore, MD.

50. **Daniels JL.** Gizlice Z, Chowdhury N, Plescia M. Prevalence and Correlates of Childhood Overweight in North Carolina. Oral Presentation at the 11th Annual MCH EPI Conference, December 2005. Miami, FL.
51. Siega-Riz AM, Herring A, Savitz DA, and **Daniels J.** The effect of fish intake on delivering preterm. Presented at the Society for Perinatal and Pediatric Epidemiologic Research. Atlanta, Georgia. June 2003.
52. **Daniels JL,** Rowland AS, Longnecker MP, Cooke M, Golding J. Dental treatment, fish consumption, and mercury exposure during pregnancy in relation to child neurodevelopment. Oral presentation at the 35th Annual Meeting of the Society for Epidemiologic Research. Toronto, Canada. June 2002.
53. **Daniels JL,** Olshan AF, Teschke K, Hertz-Picciotto I, Savitz DA, Blatt J, Bondy ML, Neglia JP, Pollock BH, Cohn SL, Look AT, Seeger RC, Castleberry RP. Parental residential pesticide exposure and the risk of neuroblastoma. Poster presented at Annual Meeting of the Society for Epidemiologic Research. Seattle, WA. June 1999.

RESEARCH SUPPORT

Pending Submissions:

Contract: NC Department of Health and Human Services (PI: Daniels 2.2 calendar) 7/1/2024-6/30/2025
\$1.4 million annual

Title: **NC Childcare Health and Safety Resources Center.** Provide consultation, coaching, technical assistance, and training to CCHCs through CCHC Coaches and disseminates articles on health and safety topics to childcare professionals.

Contract: NC Department of Health and Human Services (PI: Daniels 0.2 calendar) 7/1/2024-6/30/2025
\$125,000

Title: **Promoting Health and Safe Environments for Young Children.** Provide consultation, coaching, technical assistance to CCHCs to childcare professionals.

Active Awards

U01 DD001293-01 (PI: Daniels 3.36 calendar) 7/1/2021 – 6/30/2026
CDC \$2,434,729 direct

Title: **Component A: North Carolina - Advancing Developmental Research using SEED and SEED Follow-up data.** The project collects longitudinal data from families about children's health care access, lifestyle, medical and psychiatric history. This work is key to understanding the increased trajectory of ASD, modifying risk factors, health care needs, and improving children's outcomes.

Contract: NC Department of Health and Human Services (PI: Daniels 1.8 calendar) 7/1/2023-6/30/2024
NC DHHS. \$125,000 annual

Title: **NC Childcare Health and Safety Resources Center.** Provide consultation and training resources to ensure North Carolina children's health and safety in childcare.

Contract: NC Department of Health and Human Services (PI: Daniels 0.8 calendar) 7/1/2023-6/30/2024
NC DHHS. \$1,899,860 annual

Title: **Promoting Health and Safe Environments for Young Children.** Provide consultation, coaching, technical assistance, and training to CCHCs through CCHC Coaches and disseminates articles on health and safety topics to childcare professionals.

NIH

Title: **Early Life Determinants of Child Health: A New Denver-Based Cohort** (PI: Starling; Co-I: Daniels 0.1 months)

NICHD – New pregnancy cohort as part of the ECHO Network to evaluate environmental exposures that impact pregnancy and child health.

T32HD054868 (PI: Daniels 0FTE, 1.8 calendar *in kind*)

4/01/2023-4/30/2028

NICHD ~\$2,682,573 annually

Title: **Training Program in Reproductive, Perinatal, and Pediatric Epidemiology.**

This training program provides financial and intellectual support toward the academic and professional development of 5 doctoral trainees annually.

Completed Awards:

UH3OD023348 (PIs: O'Shea & Fry, Co-I: Daniels 0.06 calendar). 9/1/2018-8/31/2023 (extended)

NIH \$3,507,034 direct

Title: **Environment, Epigenetics, Neurodevelopment & Health of Extremely Preterm Children**

To build on the success of the ELGAN Study by adding new information about: 1) environment exposures, 2) neurodevelopmental outcomes of study participants at 15 and 18 years of age, and 3) placental epigenetic variation, a mechanism that could link inflammation early in life to neurodevelopmental impairments.

Contract: NC Department of Health and Human Services (PI: Daniels 2.0 calendar) 7/1/2022-6/33/2023
\$1.4 million annually

Title: **NC Childcare Health and Safety Resources Center.** Provide consultation, coaching, technical assistance, and training to CCHCs through CCHC Coaches. Disseminates educational information on health and safety topics to childcare professionals.

Contract: NC Department of Health and Human Services (PI: Daniels 0.2 calendar) 7/1/2022-6/33/2023

Title: **Promoting Health and Safe Environments for Young Children.** Provide consultation, coaching, technical assistance to CCHCs to childcare professionals.

R01HD092374 (PIs: O'Shea & Fry, Co-I: Daniels 0.12 calendar) 09/08/17-05/31/22 (extended 2023)

NIH \$554,248 direct

Title: **Placental Sexual Epigenetic Dimorphism & Brain Dysfunction After Preterm Birth** This project will identify biomarkers in the placenta and neonate blood that predict fetal growth restriction and/or neurodevelopmental impairments among individuals born extremely prematurely (<28 weeks gestation). The research findings may inform the development of therapies to prevent or ameliorate cognitive disability in children.

T32HD054868 (PI: Daniels 0%)

4/01/2008-4/30/2023

NICHD \$296,069 annually for 5 years

Title: **Training Program in Reproductive, Perinatal, and Pediatric Epidemiology.**

This training program provides financial and intellectual support toward the academic and professional development of 5 doctoral trainees annually.

U01-DD001205 (PI: Daniels 1.92 calendar) 07/01/16-06/30/21(extended 6/30/2022)
CDC \$3,771,000 direct

Title: Component A: NC Study to Explore Early Development Phase 3 (SEED 3)

The project explores participating families' health care access, lifestyle, medical and psychiatric history. This work is key to understanding the increased prevalence of ASD, modifying risk factors, and improving children's outcomes.

U01DD001205 (PI: Daniels 1.80 calendar) 07/01/16-06/30/21 (extended 6/30/2022)
CDC \$973,904 direct

Title: Component C: East Coast SEED 1 Follow-Up Study

This work will 1) contribute genetic and phenotypic data to large national biorepositories that can accelerate understanding of ASD genetics, 2) assess the feasibility of longitudinal follow-up protocols for ASD, and 3) improve our understanding of ASD in adolescence and predict ASD patterns that may benefit from targeted interventions to improve outcomes for adolescents with ASD and their families.

U53 DD001175 (PI: Daniels 0.24 calendar) 01/01/15-12/31/19
CDC \$1,866,348 direct

Title: North Carolina Autism and Developmental Disabilities Monitoring Program

The North Carolina Autism and Developmental Disabilities Monitoring Program has established a population based multiple sources surveillance system for autism and intellectual disability in North Carolina. This study monitors the prevalence of autism and mental retardation among 8-year olds in central NC.

T32HD052468 (PI: Daniels) 4/30/2013-4/29/2018
NICHD

Title: Reproductive, Perinatal, and Pediatric Epidemiology Training Program

This program supports the professional training of 5 doctoral students focused on reproductive, perinatal, and pediatric epidemiology through financial awards and academic enrichment.

R21ES023904 (PI: Daniels. 1.8 calendar) 12/1/2014-11/30/2017
NIEHS \$270,536 direct

Title: Prenatal Exposure to Organophosphates and Associations with Child Growth

This study investigates the association between maternal prenatal organophosphate flame retardant levels and child growth at 3 years of age in the PIN Kids study.

H6M-MC26248 (PI: Hooper, Co-I: Daniels 0.36 calendar) 09/01/13-08/31/16
DHHS \$684,000 direct

Title: NC State Implementation Grant for Improving Services for Children & Youth with ASD.

The primary purposes of this project are to identify children with ASD by 24 months of age, and improve their access to a family-centered medical home and associated comprehensive and coordinated care.

U01-DD000749 (PI: Daniels 4.0 calendar) 07/01/11-06/30/16
CDC \$3,499,592 direct

Title: NC CADDRE: Study to Explore Early Development (SEED) Phase II

The second phase of a multi-site case-control study of autism that investigates genetic and environmental factors associated with autism, as well as clinical correlates related to autism phenotype and development. -- in no cost extension through 6/40/2017

UR3 DD000687 (PI: Daniels. 2.4 calendar) 6/01/10 –5/31/15

CDC \$1,345,931 direct

Title: North Carolina Autism and Developmental Disabilities Monitoring Program.

This program conducts active surveillance for autism and intellectual disabilities in central NC and contributes to larger network that has estimated the prevalence and characteristics associated with autism spectrum disorder and intellectual disability in the US since 2000.

U10 DD000184 (PI: Daniels. 4 calendar) 9/30/07-9/29/12

CDC \$3,357,280 direct

Title: North Carolina Center of Excellence for Autism and Developmental Disabilities Epidemiology

This is the first phase of a multi-site case-control study investigating genetic and environmental factors associated with autism, as well as clinical correlates related to autism phenotype and development.

UR3DD000089 (PI: Daniels. 2.4 calendar) 6/01/06 –5/31/11

CDC \$951,594 direct

Title: North Carolina Autism and Developmental Disabilities Monitoring Program.

This program conducts active surveillance for autism and intellectual disabilities in central NC and contributes to larger network that has estimated the prevalence and characteristics associated with autism spectrum disorder and intellectual disability in the US since 2000.

RD-83273601 (PI: Daniels 1.8 calendar) 3/15/06-3/14/11

EPA \$536,086 direct

Title: Assessment of Perinatal PBDE Exposure and Related Child Behavioral and Cognitive Effects

This study investigates the impact of perinatal exposure to PBDEs and other persistent organic pollutants on cognitive and behavioral development of children from birth to age three years.

U50/CCU422345 (Co-PI: Daniels 2.4 calendar, w/ Co-PI: Savitz) 9/30/02-9/29/07

CDC \$2,121,540 direct

Title: Center of Excellence for Autism and Developmental Disabilities Epidemiology

This Center initiated the active surveillance for autism and intellectual disability in NC and designed the Study to Explore Early Development.

Pilot Grant (PI: Daniels) 10/07-10/08

UNC Center for Environmental Health & Susceptibility, NIEHS ~ \$100,864 Total Award

Title: Hazardous Air Pollutants and Autism

Pilot Grant PI: (PI: Daniels) 4/15/04-4/15/05

UNC Center for Environmental Health & Susceptibility, NIEHS ~ \$14,868 Total Award

Title: PIN Pediatric Study

Pilot Grant (PI: Daniels) 9/30/03 – 9/29/05

UNC Clinical Nutrition Research Center ~ \$50,000 Total Award

Title: PIN Pediatric Pilot Study

TEACHING

Classroom Instruction

EPID 992.001 – Applied Epidemiology - Integrated Learning Experience

Department of Epidemiology, University of North Carolina at Chapel Hill.

Residential: Course developer, Lead Instructor 2021 (n=12), 2022 (n=13), 2023 (n=35), 2024 (n=34).

Online MPH@UNC: Course developer 2021. Supervising instructor: Spring 2023 (n=6), Fall 2023 (n=2), Summer 2024 (n=6)

EPID 799.001 - 1st Year Doctoral Seminar

Department of Epidemiology, University of North Carolina at Chapel Hill.

Co-Instructor Fall2022 n=25. Fall2023 n=24.

EPID 725/726 – Research Planning and Epidemiology Research Methods.

Department of Epidemiology, University of North Carolina at Chapel Hill.

Lead Instructor 2015-2019, Co-instructor: 2013-2014 ~ Annual Average ~30 students

EPID 890 – MSPH Seminar

Department of Epidemiology, University of North Carolina at Chapel Hill.

Co-instructor: 2009, 2012, 2013 ~ Annual Average ~10 students

EPID 350/853 - Advanced Topics in Perinatal & Pediatric Epidemiology.

Department of Epidemiology, University of North Carolina at Chapel Hill.

Instructor: 2004, 2006, 2013 ~ Annual Average ~10 students

EPID 851 - Reproductive and Perinatal Epidemiology.

Department of Epidemiology, University of North Carolina at Chapel Hill.

Instructor: 2006-2011; Co-instructor: 2003-2006 ~ Annual Average ~25 students

EPID 690 – Advanced Seminar in Pediatric Epidemiology.

Department of Epidemiology, University of North Carolina at Chapel Hill.

Instructor: 2009 ~ 12 students

Recurring Guest Lectures

EPID 853 – Advanced Seminar in Reproductive Epidemiology. University of North Carolina at Chapel Hill (2008, 2010, 2016, 2018, 2020, 2022).

EPID 851 - Reproductive and Perinatal Epidemiology. Department of Epidemiology, University of North Carolina at Chapel Hill. (Annually 2012-present).

EPID 785 - Environmental Epidemiology. Department of Epidemiology, University of North Carolina at Chapel Hill. (2009, 2011, 2012, 2015, 2017, 2019).

MHCH 710 Foundations in Maternal and Child Health. University of North Carolina at Chapel Hill (2004-present).

PATH 726- Human Environmental Disease. University of North Carolina at Chapel Hill (2009-2015)

PCSC 890 Translational Research: Focus on Autism Spectrum Disorders. Department of Allied Health, University of North Carolina at Chapel Hill (2007, 2009, 2011, 2015).

Individual Student Advising and Mentoring

Mentored Student Training Awards

NICHD F31 (Fellow/PI: Michelle Delahanty. Mentor: Daniels)	Pending
NICHD F31-HD112124 (Fellow/PI: Taniqua Ingol. Mentor: Daniels)	5/1/23-12/31/24

Student Honors

Taniqua Ingol – 2022-2023 H. Michael and Barbara Arrighi Endowed Scholarship
Adrien Wilkie – 2022 NC Impact Award
Adrien Wilkie – 2020 Rebecca James Baker Scholarship in Epidemiology
Eric Rubenstein – 2016 Dennis Weatherstone Predoctoral Training Fellowship, Autism Speaks
Stephanie Watkins - 2012 NC Impact Award
Cynthia Cassel - 2008 Gregory Alexander Outstanding Student Paper Award, American Public Health Association, Maternal and Child Health Section Outstanding Student Author.
I-Jen Pan – 2007 UNC Graduate School Dissertation Completion Award
Amy Kalkbrenner - 2008 NC Impact Award

Direction of Doctoral Research (Degree program, Department)

Current Kaleigh Hinton (PhD, EPID)
Current Taniqua Ingol (PhD, EPID)
Current Ginna Doss (PhD, EPID)
Current Deanna Caruso (PhD, EPID)
Current. Michelle Delahanty (PhD, EPID)
Current Ariel Christian (PhD, EPID)
2022 Yitian Zhang (PhD, EPID) Malpresentation and autism spectrum disorder.

- 2021 Adrien Wilkie (PhD, EPID) Maternal gestational exposure to coal-fired power plant-related air pollution and associations with preterm birth
- 2018 Brett Doherty (PhD, EPID) Prenatal Exposure to Organophosphate Esters and Cognitive and Behavioral Development in Young Children.
- 2018 Laura McGuinn (PhD, EPID) Early Life Exposure to Air pollution and Autism Spectrum Disorder: Susceptible Time Windows and Populations.
- 2018 Devika Chawla (PhD, EPID) Cannabis Use and Reproductive Health: An Investigation of Temporal Patterns and Adverse Birth Outcomes.
- 2017 Christina Cordero (PhD, EPID) Perinatal complications (Gestational diabetes, hypertension, and jaundice) and Autism Spectrum Disorders
- 2017 Eric Rubenstein (PhD, EPID) Broader Autism Phenotype in Parents of Children with Autism Spectrum Disorder: Implications for the Diagnostic Process and Relationship to Child Autism Spectrum Disorders Phenotype.
- 2014 Elizabeth Jensen (PhD, EPID) Pharmacologic Sex Hormone Use Before and in Early Pregnancy in Relation to Offspring Anthropometric Outcomes
- 2013 Kristen Rappazzo (PhD, EPID) Exposure to particulate matter mass and species during pregnancy and risk of birth at preterm gestational ages
- 2012 Stephanie Watkins (PhD, EPID) Interventional Physical and Occupational Therapy Services and Motor Development among Low Birth Weight Infants
- 2012 Siobhan Colgan (PhD, EDUC) The influence of maternal stress on participation in Early Intervention.
- 2010 Margaret Adgent (PhD, EPID) Early Life Soy Exposure and Child Development: and assessment of language acquisition, play behavior, and time to menarche.
- 2009 Joseph Braun (PhD, EPID) Relationships between serum and meconium biomarkers of prenatal tobacco smoke exposure and their association with infant and early childhood growth.
- 2009 Anne Marie Jukic (PhD, EPID) Factors correlated with physical activity during pregnancy and associations of physical activity with spontaneous abortion, length of gestation, and birthweight.
- 2009 Sarah Keim (PhD, EPID) Long-chain polyunsaturated fatty acids in breast milk and infant formula, maternal perinatal mental health, and infant development.
- 2009 Amy Kalkbrenner (PhD, EPID) Geographic influences on autism diagnosis: Accessibility of Health Services and Exposure to hazardous Air Pollutants.
- 2008 I-Jen Pan (PhD, EPID) Polychlorinated Biphenyls, Dichlorodiphenyldichloro-ethylene, and Infant Development and Growth: An Analysis of the PIN Babies Study.
- 2006 Cynthia Visness (PhD, EPID) Association of Childhood Obesity with Atopic and Non-Atopic Asthma: Findings from the NHANES 1999-2006
- 2007 Cynthia Cassell (PhD, MHCH) Health Care Expenditures among Medicaid Enrolled Children with and without Orofacial Clefts in North Carolina, 1995-2002.

Doctoral Dissertation Committee Member (Department, Graduation Year)

Josh Miller (NUTR, current)	Kylee Miller (EDUC 2013)
Lauren Grabill (EPID, 2023)	Fernanda, Costa de Queirós (MHCH 2012)
Rachael Ross (EPID 2023)	Nathan Nickel (MHCH 2012)
Elizabeth Kamai (EPID 2021)	Tania DesRosiers (EPID 2011)
Meghan Berry (MHCH 2021)	Jennifer Griffin (EPID 2011)
Giehae Choi (EPID 2020)	Meghan Slining (NUTR 2010)
Chris Gray (EPID 2017)	Andrea Dierlein (NUTR 2010)
Alan Kinlaw (EPID 2016)	Susan Marshall Mason (EPID 2009)
Melissa Furlong (EPID 2016)	Nghia Nguyen (EPID 2009)
Jared Parrish (EPID 2016)	Sunni Mumford (EPID 2009)
Chantel Martin (EPID 2015)	Ronna Chan (MHCH 2008)
McClellan Pollock (MHCH 2015)	Phuong-Thao Vo (EPID 2007)
Jessie Buckley (EPID 2014)	Kristen Krucera (EPID 2006)
Christine Tucker (MHCH 2014)	Melissa Daniels (NUTR 2006)
Alane Murdock (MHCH 2013)	Kim Cobb (MHCH 2006)
Jeanette Stingone (EPID 2013)	Keele Werst (EPID 2005)
Anne Starling (EPID 2013)	M. Rosalba Martinez (EPID 2004)

Director of Masters Research/ First Reader (Degree, Department)

- 2023 Afua Takyi, MD (MSCR, EPID) The effect of omega-3 fatty acid as supplementation and dietary consumption on preterm delivery and maternal outcomes by race and ethnicity.
- 2022 Claire Jensen, MD (MSCR, EPID) High ambient temperature exposure during pregnancy is associated with early preterm birth less than 34 weeks' gestation.
- 2019 Ariana Stewart (MPH, MHCH) Neurodevelopmental Outcomes for Children Born Prior to 28 Weeks Gestation: Relationship to Indication for Preterm Delivery
- 2015 Devika Chawla (MSPH, EPID) Prenatal Vitamin D exposure and Autism Spectrum Disorders
- 2012 Andrea Trembeth, MD. (MSCR, EPID) Comparative effectiveness of three surfactant preparations in premature infants.
- 2010 Alex Keil (MSPH, EPID) Autism spectrum disorder, flea and tick medication, and exposure misclassification in the CHildhood Autism Risks from Genetics and Environment Study.
- 2010 Mary Dickinson (MPH, MHCH) Access to contraceptive health care in Nicaragua.
- 2008 Elizabeth Roberts (MPH, MHCH) Physician advising practices regarding breastfeeding.
- 2007 Joseph Braun (MSPH, EPID) Association of Environmental Toxicants and Conduct Disorder in U.S. Children: NHANES 2001-2004.
- 2005 Manali Patel (MPH, MHCH) Lay health education to improve women's hygiene practices in Honduras
- 2005 Ayaba Worioh, MD. (MPH, MHCH) Post Traumatic Stress among Women Veterans
- 2004 Molly Aldridge (MPH, MHCH) Mammograms and health care access among US Hispanic and Non-Hispanic women over age 40 years.

2004 Lindsey Kampmeier (MPH, MHCH) Maternal decision-making about pain management during labor and delivery.

Second Reader of Masters Thesis (Department, Year)

Amanda Tapia (BIOS 2015)	Brett Doherty (EPID 2015)
Erica Browne (BIOS 2013)	Rebecca Swann (MHCH 2008)
Stephanie Saddlemire (EPID 2005)	Elizabeth Blumm (EPID 2004)
Erin McCall (EPID 2004)	Diana Frick (MHCH 2003)

Director of Post-doctoral Training (Institution prior to post-doc, Position after post-doc)

2015-2017 Alison Singer, Ph.D. (PhD from Johns Hopkins University); Current position: UNC, NC Institute for Public Health

2011-2013 Kate Hoffman, Ph.D. (PhD from Boston University; Current position: Associate Professor, Duke University)

2009-2011 Amy Kalkbrenner, Ph.D. (PhD from UNC; Current position: Associate Professor, University of Wisconsin)

2004-2008 Ulla Forssen, Ph.D. (PhD from Karolinska Institutet; Current position: Senior Epidemiologist, CSL Behring)

Faculty Mentoring Committee

2022-2024 Shabbar Ranapurwala

2016-2023 Tania Derosiers