

Kristen Lyall, Sc.D.

Curriculum Vitae

Contact information

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EDUCATION

- 9/2004-3/2010 Sc.D. (Doctor of Science) Epidemiology; Minor: Biostatistics; Focus: Psychiatric Epidemiology
Harvard School of Public Health, Boston, MA
Thesis topic: Maternal risk factors for autism spectrum disorders in children of the Nurses' Health Study II.
- 9/1997-5/2001 B.A., Biology and Psychology (double major), Middlebury College, Middlebury, VT
Cum Laude, High honors for thesis research

Postdoctoral Training

- 9/2012-4/2014 Postdoctoral Fellow, Department of Public Health Sciences, University of California Davis, Davis, CA
- 9/2010-9/2012 Postdoctoral Fellow, Autism Research Training Program, University of California, Davis MIND Institute, Sacramento, CA
- 4/2010-9/2010 Postdoctoral Research Fellow, Department of Nutrition, Harvard School of Public Health, Boston, MA

CAREER

- 5/2025- Chair, Department of Epidemiology and Biostatistics, Drexel University, Philadelphia, PA
- 9/2021 - Associate Professor with tenure, Drexel University, Philadelphia, PA
Faculty in the AJ Drexel Autism Institute program in Modifiable Risk Factors
- 7/2019-7/2020 Interim Program Area Leader, Modifiable Risk Factors Program, AJ Drexel Autism Institute, Drexel University, Philadelphia, PA
- 7/2015-8/2021 Assistant Professor, Drexel University, Philadelphia, PA
Faculty in the AJ Drexel Autism Institute program in Modifiable Risk Factors
- 5/2014-6/2015 Research Scientist III, Environmental Health Investigations Branch, California Department of Public Health, Richmond, CA
- 9/2010-5/2014 Visiting Scientist, Department of Nutrition, Harvard School of Public Health, Boston, MA
- 9/2008-4/2010 Project Coordinator, "Maternal risk factors for autism spectrum disorders in children of the Nurses' Health Study II." Funded by USAMRMC DoD. PIs: Ascherio, Santangelo, Weisskopf. Boston, MA
- 9/2007-12/2009 Project Coordinator, "Maternal risk factors for autism spectrum disorders in children of the Nurses' Health Study II- A pilot study." Funded by Autism Speaks. PI: Ascherio. Boston, MA
- 7/2002-9/2004 Research Assistant, Massachusetts General Hospital Psychiatric and Neurodevelopmental Genetics Unit, Boston, MA

SCHOLARSHIP

Awards and Distinctions

2024	2024 Drexel Dragon Leaders program, Drexel University
2021	Provost Award for Outstanding Early Career Scholarly Achievement, Drexel University
2013	Travel Award, Environmental Epidemiology Autism Research Network
2012	Travel Award, Environmental Epidemiology Autism Research Network
2010	Student Travel Award, IMFAR
3/2008-3/2010	Fellowship Awardee, Autism Speaks Predoctoral Fellowship Grant
9/2004-9/2008	Fellowship Awardee, NIMH Training Grant (T32) in Psychiatric Epidemiology
2001	Cum Laude, Middlebury College
2001	High Honors, Biology thesis, Middlebury College
1996-1997	Cum Laude Society, McDonogh School

Publications (Listed from most recent; *indicates trainees) *Note: All Publications and Academic Achievements published under maiden name, Kristen Lyall.*

1. Bragg MG*, Rando J, Carroll KN, Eick SM, Karagas MR, Lin PI, Schmidt RJ, **Lyall K**; ECHO Cohort Consortium. The association of prenatal dietary factors with child autism diagnosis and autism-related traits using a mixtures approach: Results from the ECHO Cohort. *J Nutr.* 2025 Mar 17:S0022-3166(25)00165-8. doi: 10.1016/j.tjnut.2025.02.025. PMID: 40107454.
2. Ames JL, Sharma V, **Lyall K**. Effects of Early-life PFAS Exposure on Child Neurodevelopment: A Review of the Evidence and Research gaps. *Curr Environ Health Rep.* 2025 Jan 31;12(1):9. doi: 10.1007/s40572-024-00464-5. PMID: 39888511; PMCID: PMC11785707.
3. Kelly NR, Kosty D, Bodovski Y, Blackwell CK, Ganiban JM, Neiderhiser JM, Dabelea D, Gilbert-Diamond D, Aschner JL, Bastain TM, Breton CV, Bush NR, Calub CA, Camargo CA, Camerota M, Croen LA, Elliott AJ, Enlow MB, Ferrara A, Hartert T, Joseph RM, Karagas MR, Kelly RS, **Lyall K**, Magee KE, McEvoy CT, Merced-Nieves FM, O'Connor TG, Santarossa S, Schantz SL, Schmidt RJ, Stanford JB, Straughen JK, Stroustrup A, Talge NM, Wright RJ, Zhao Q, Leve LD; program collaborators for Environmental influences on Child Health Outcomes. Children's executive functioning and health behaviors across pediatric life stages and ecological contexts. *J Behav Med.* 2025 Jan 9. doi: 10.1007/s10865-024-00543-w. Epub ahead of print. PMID: 39786706.
4. **Lyall K**, Dickerson AS, Green AM, Frndak S, Croen LA, Ames JL, Avalos LA, Aschner JL, Bush NR, Camargo CA Jr, D'Sa V, Dager SR, Dunlop AL, Ferrara A, Ganiban JM, Gern JE, Gissandaner TD, Graff JC, Hertz-Picciotto I, Hipwell AE, Ma T, Miller M, Murphy L, Karagas MR, Kelly RS, Margolis A, Koinis-Mitchell D, McEvoy CT, Messinger D, Nguyen R, Oken E, Ozonoff S, Page GP, Schantz SL, Schmidt RJ, Shuster CL, Schweitzer JB, Sheinkopf SJ, Stanford JB, Trevino CO, Weiss ST, Volk HE, Joseph RM; program collaborators for Environmental influences on Child Health Outcomes. Demographic Correlates of Autism: How Do Associations Compare Between Diagnosis and a Quantitative Trait Measure? *Autism Res.* 2025 Jan 8. doi: 10.1002/aur.3296. Epub ahead of print. PMID: 39778060.
5. Volk HE, Fortes D, Musci R, Kim A, Bastain TM, Camargo CA Jr, Croen LA, Dabelea D, Duarte CS, Dunlop AL, Gachigi K, Ghassabian A, Hertz-Picciotto I, Huddleston KC, Joseph RM, Keating D, Kelly RS, Kim YS, Landa RJ, Leve LD, **Lyall K**, Northrup JB, O'Connor T, Ozonoff S, Ross A, Schmidt RJ, Schweitzer JB, Shuffrey LC, Shuster C, Vance E, Weiss ST, Wilkening G, Wright RO. Co-occurring Psychopathology in Children With and Without Autism Spectrum Disorder (ASD): Differences by Sex in the ECHO Cohorts. *J Autism Dev Disord.* 2025 Jan 6. doi: 10.1007/s10803-024-06670-2. Epub ahead of print. PMID: 39762643.
6. Vivanti G, Lee WL, Ventimiglia J, Tao S, **Lyall K**, Shea LL. Prevalence of Dementia Among US Adults With Autism Spectrum Disorder. *JAMA Netw Open.* 2025 Jan 2;8(1):e2453691. doi: 10.1001/jamanetworkopen.2024.53691. PMID: 39745705; PMCID: PMC11696448.
7. G Bragg M, Vesey O, Chavarro JE, Hart JE, Tabb LP, Weisskopf MG, Croen LA, Fallin D, Hertz-Picciotto I, Newschaffer C, Schmidt RJ, Volk H, **Lyall K**. Characterizing self-reported physical activity before and during a subsequent pregnancy among parents in a familial autism cohort.

- Autism. 2025 Jan;29(1):143-154. doi: 10.1177/13623613241273034. Epub 2024 Sep 5. PMID: 39235189; PMCID: PMC11659057.
8. **Lyall K**, Oken E. Reply to A H Quirino et al. Am J Clin Nutr. 2024 Dec;120(6):1459-1460. doi: 10.1016/j.ajcnut.2024.09.026. PMID: 39632001.
 9. Vecchione R*, Westlake M, Bragg MG, Rando J, Bennett DH, Croen LA, Dunlop AL, Ferrara A, Hedderson MM, Kerver JM, Lee BK, Lin PID, Hertz-Picciotto I, Schmidt RJ, Strakovsky RS, **Lyall K**, for the ECHO Cohort Consortium. Maternal Dietary Patterns During Pregnancy and Child Autism-Related Traits in the Environmental Influences on Child Health Outcomes Consortium. *Nutrients*. 2024; 16(22):3802. <https://doi.org/10.3390/nu16223802>.
 10. Madley-Dowd P, Ahlqvist VH, Forbes H, Rast JE, Martin FZ, Zhong C, Barry CS, Berglind D, Lundberg M, **Lyall K**, Newschaffer CJ, Tomson T, Davies NM, Magnusson C, Rai D, Lee BK. Antiseizure medication use during pregnancy and children's neurodevelopmental outcomes. *Nat Commun*. 2024 Nov 15;15(1):9640. doi: 10.1038/s41467-024-53813-1. PMID: 39548057; PMCID: PMC11568279.
 11. Hedderson MM, Schuh HB, Knapp EA, Bekelman TA, Catellier DJ, Westlake M, **Lyall K**, Schmidt RJ, Dunlop AL, Comstock SS, Chatzi L, Sauder KA, Dabelea D, Switkowski KM, Lin PD, Avalos LA, Zhu Y, Ferrara A; ECHO Cohort Consortium. Prenatal Diet and Infant Growth From Birth to Age 24 Months. *JAMA Netw Open*. 2024 Nov 4;7(11):e2445771. doi: 10.1001/jamanetworkopen.2024.45771. PMID: 39570591.
 12. Rajaprakash M, Palmore M, Bakulski KM, Howerton E, **Lyall K**, Schmidt RJ, Newschaffer C, Croen LA, Hertz-Picciotto I, Volk H, Ladd-Acosta C, Fallin MD. DNA methylation signatures of prenatal socioeconomic position associated with 36-month language outcomes. *Res Dev Disabil*. 2024 Nov;154:104846. doi: 10.1016/j.ridd.2024.104846. Epub 2024 Oct 1. PMID: 39357175.
 13. Peacock JL, Coto SD, Rees JR, Sauzet O, Jensen ET, Fichorova R, Dunlop AL, Paneth N, Padula A, Woodruff T, Morello-Frosch R, Trowbridge J, Goin D, Maldonado LE, Niu Z, Ghassabian A, Transande L, Ferrara A, Croen LA, Alexeeff S, Breton C, Litonjua A, O'Connor TG, **Lyall K**, Volk H, Alshawabkeh A, Manjourides J, Camargo CA Jr, Dabelea D, Hockett CW, Bendixsen CG, Hertz-Picciotto I, Schmidt RJ, Hipwell AE, Keenan K, Karr C, LeWinn KZ, Lester B, Camerota M, Ganiban J, McEvoy C, Elliott MR, Sathyanarayana S, Ji N, Braun JM, Karagas MR; Program Collaborators for Environmental influences on Child Health Outcomes. Do small effects matter more in vulnerable populations? an investigation using Environmental influences on Child Health Outcomes (ECHO) cohorts. *BMC Public Health*. 2024 Sep 28;24(1):2655. doi: 10.1186/s12889-024-20075-x. PMID: 39342237; PMCID: PMC11438038.
 14. Kaplan-Kahn E. A.*, Rando J., Ames J. L., Bekelman T. A., Camargo C. A., Croen L. A., Dager S. R., Dickerson, A. S., Dunlop A. L., Elliott A. J., Giardino A. P., Hazlett H. C., Hertz-Picciotto I., Hirtz, D., Joseph R. M., Landa R. J., McEvoy C. T., Messinger D. S., Koinis-Mitchell D., . . . **Lyall K**. (2024). Describing Multidomain Health Outcomes in Autistic Children in the ECHO Program. *JAACAP Open*. <https://doi.org/https://doi.org/10.1016/j.jaacop.2024.05.005>
 15. Yao M, Daniels J, Grosvenor L, Morrill V, Feinberg JI, Bakulski KM, Piven J, Hazlett HC, Shen MD, Newschaffer C, **Lyall K**, Schmidt RJ, Hertz-Picciotto I, Croen LA, Fallin MD, Ladd-Acosta C, Volk H, Benke K. Commonly used genomic arrays may lose information due to imperfect coverage of discovered variants for autism spectrum disorder. *J Neurodev Disord*. 2024 Sep 12;16(1):54. doi: 10.1186/s11689-024-09571-8. PMID: 39266988; PMCID: PMC11397030.
 16. Ahlqvist VH, Dardani C, Madley-Dowd P, Forbes H, Rast J, Zhong C, Gardner RM, Dalman C, **Lyall K**, Newschaffer C, Tomson T, Lundberg M, Berglind D, Davies NM, Lee BK, Magnusson C, Rai D. Psychiatric comorbidities in epilepsy: population co-occurrence, genetic correlations and causal effects. *Gen Psychiatr*. 2024 Jan 30;37(1):e101201. doi: 10.1136/gpsych-2023-101201. PMID: 39228867; PMCID: PMC11369844.
 17. **Lyall K**, Westlake M, Musci R, Gachigi K, Barrett ES, Bastain TM, Bush NR, Buss C, Camargo CA Jr, Croen LA, Dabelea D, Dunlop AL, Elliott AJ, Ferrara A, Ghassabian A, Gern JE, Hare ME, Hertz-Picciotto I, Hipwell AE, Hockett CW, Karagas MR, Lugo-Candelas C, O'Connor TG, Schmidt RJ, Stanford JB, Straughen JK, Shuster CL, Wright RO, Wright RJ, Zhao Q, Oken E; program collaborators for Environmental influences on Child Health Outcomes; ECHO Components;

- Coordinating Center; Data Analysis Center; Person-Reported Outcomes Core; ECHO Awardees and Cohorts. Association of maternal fish consumption and ω -3 supplement use during pregnancy with child autism-related outcomes: results from a cohort consortium analysis. *Am J Clin Nutr*. 2024 Jul 1:S0002-9165(24)00585-9. doi: 10.1016/j.ajcnut.2024.06.013. Epub ahead of print. PMID: 38960320.
18. Bragg MG*, Gorski-Steiner I, Song A, Chavarro JE, Hart JE, Tabb LP, Weisskopf MG, Volk H, **Lyall K**. Prenatal air pollution and children's autism traits score: Examination of joint associations with maternal intake of vitamin D, methyl donors, and polyunsaturated fatty acids using mixture methods. *Environ Epidemiol*. 2024 Jun 21;8(4):e316. doi: 10.1097/EE9.0000000000000316. PMID: 38919264; PMCID: PMC11196080.
 19. Patti MA*, Croen LA, Dickerson AS, Joseph RM, Ames JL, Ladd-Acosta C, Ozonoff S, Schmidt RJ, Volk HE, Hipwell AE, Magee KE, Karagas M, McEvoy C, Landa R, Elliott MR, Mitchell DK, D'Sa V, Deoni S, Pievsky M, Wu PC, Barry F, Stanford JB, Bilder DA, Trasande L, Bush NR, **Lyall K**; program collaborators for Environmental Influences on Child Health Outcomes. Reproducibility between preschool and school-age Social Responsiveness Scale forms in the Environmental influences on Child Health Outcomes program. *Autism Res*. 2024 Jun;17(6):1187-1204. doi: 10.1002/aur.3147. Epub 2024 May 25. PMID: 38794898; PMCID: PMC11186723.
 20. Forbes H, Madley-Dowd P, Ahlqvist V, Campbell J, Davies NM, Liebling R, **Lyall K**, Newschaffer C, Rast J, Tomson T, Zhong C, Magnusson C, Rai D, Lee BK. First-trimester use of antiepileptic medications and the risk of miscarriage: a population-based cohort study. *J Neurol Neurosurg Psychiatry*. 2024 Jul 15;95(8):693-703. doi: 10.1136/jnnp-2023-333149. PMID: 38777577.
 21. Carey ME*, Kivumbi A, Rando J, Mesaros AC, Melnyk S, James SJ, Croen LA, Volk H, **Lyall K**; Early Autism Risk Longitudinal Investigation (EARLI) team. The association between prenatal oxidative stress levels measured by isoprostanes and offspring neurodevelopmental outcomes at 36 months. *Brain Behav Immun Health*. 2024 Apr 24;38:100775. doi: 10.1016/j.bbih.2024.100775. PMID: 38706573; PMCID: PMC11067487.
 22. Maitin-Shepard M, O'Tierney-Ginn P, Kraneveld AD, **Lyall K**, Fallin D, Arora M, Fasano A, Mueller NT, Wang X, Caulfield LE, Dickerson AS, Diaz Heijtz R, Tarui T, Blumberg JB, Holingue C, Schmidt RJ, Garssen J, Almendinger K, Lin PD, Mozaffarian D. Food, nutrition, and autism: from soil to fork. *Am J Clin Nutr*. 2024 Jul;120(1):240-256. doi: 10.1016/j.ajcnut.2024.04.020. Epub 2024 Apr 25. PMID: 38677518.
 23. Yim G, Roberts A, **Lyall K**, Ascherio A, Weisskopf MG. Multigenerational association between smoking and autism spectrum disorder: findings from a nationwide prospective cohort study. *Am J Epidemiol*. 2024 Aug 5;193(8):1115-1126. doi: 10.1093/aje/kwae038. PMID: 38583942; PMCID: PMC11299032.
 24. Zhong C*, Rando J, Patti MA, Braun JM, Chen A, Xu Y, Lanphear BP, Yolton K, Croen LA, Fallin MD, Hertz-Picciotto I, Newschaffer CJ, **Lyall K**. Gestational thyroid hormones and autism-related traits in the EARLI and HOME studies. *Autism Res*. 2024 Apr;17(4):716-727. doi: 10.1002/aur.3115. Epub 2024 Mar 4. PMID: 38436527.
 25. Aris IM, Lin PD, Wu AJ, Dabelea D, Lester BM, Wright RJ, Karagas MR, Kerver JM, Dunlop AL, Joseph CL, Camargo CA Jr, Ganiban JM, Schmidt RJ, Strakovsky RS, McEvoy CT, Hipwell AE, O'Shea TM, McCormack LA, Maldonado LE, Niu Z, Ferrara A, Zhu Y, Chehab RF, Kinsey EW, Bush NR, Nguyen RH, Carroll KN, Barrett ES, **Lyall K**, Sims-Taylor LM, Trasande L, Biagini JM, Breton CV, Patti MA, Coull B, Amutah-Onukagha N, Hacker MR, James-Todd T, Oken E; program collaborators for Environmental Influences on Child Health Outcomes, ECHO components—Coordinating Center; Data Analysis Center; Person-Reported Outcomes Core; ECHO Awardees and Cohorts. Birth outcomes in relation to neighborhood food access and individual food insecurity during pregnancy in the Environmental Influences on Child Health Outcomes (ECHO)-wide cohort study. *Am J Clin Nutr*. 2024 May;119(5):1216-1226. doi: 10.1016/j.ajcnut.2024.02.022. Epub 2024 Mar 1. PMID: 38431121; PMCID: PMC11130689.
 26. Oken E, Musci RJ, Westlake M, Gachigi K, Aschner JL, Barnes KL, Bastain TM, Buss C, Camargo CA Jr, Cordero JF, Dabelea D, Dunlop AL, Ghassabian A, Hipwell AE, Hockett CW, Karagas MR, Lugo-Candelas C, Margolis AE, O'Connor TG, Shuster CL, Straughen JK, **Lyall K**; program

- collaborators for Environmental influences on Child Health Outcomes. Demographic and health characteristics associated with fish and *n*-3 fatty acid supplement intake during pregnancy: results from pregnancy cohorts in the ECHO programme. *Public Health Nutr.* 2024 Feb 27;27(1):e94. doi: 10.1017/S136898002400051X. PMID: 38410088; PMCID: PMC10993063.
27. Berger K, Bradshaw PT, Poon V, Kharrazi M, Eyles D, Ashwood P, **Lyall K**, Volk HE, Ames J, Croen LA, Windham GC, Pearl M. Mixture of air pollution, brominated flame retardants, polychlorinated biphenyls, per- and polyfluoroalkyl substances, and organochlorine pesticides in relation to vitamin D concentrations in pregnancy. *Environ Pollut.* 2024 Jan 1;340(Pt 2):122808. doi: 10.1016/j.envpol.2023.122808. Epub 2023 Nov 3. PMID: 37923052; PMCID: PMC10841600.
 28. Yu EX, Braun JM, **Lyall K**, Hertz-Picciotto I, Fallin MD, Croen LA, Chen A, Xu Y, Yolton K, Newschaffer CJ, Hamra GB. A Mixture of Urinary Phthalate Metabolite Concentrations During Pregnancy and Offspring Social Responsiveness Scale Scores. *Epidemiology.* 2024 Jan 1;35(1):84-93. doi: 10.1097/EDE.0000000000001682. Epub 2023 Oct 11. PMID: 37820223; PMCID: PMC10842958.
 29. Song AY, Bulka CM, Niemiec SS, Kechris K, Boyle KE, Marsit CJ, O'Shea TM, Fry RC, **Lyall K**, Fallin MD, Volk HE, Ladd-Acosta C. Accelerated epigenetic age at birth and child emotional and behavioural development in early childhood: a meta-analysis of four prospective cohort studies in ECHO. *Epigenetics.* 2023 Dec;18(1):2254971. doi: 10.1080/15592294.2023.2254971. PMID: 37691382; PMCID: PMC10496525.
 30. Dunlop AL, Burjak M, Dean LT, Alshawabkeh AN, Avalos LA, Aschner JL, Breton CV, Charifson MA, Cordero J, Dabelea D, D'Sa V, Duarte CS, Elliott AJ, Eick SM, Ferrara A, Fichorova RN, Ganiban JM, Gern JE, Hedderson MM, Herbstman JB, Hipwell AE, Huddleston KC, Karagas M, Karr C, Kerver JM, Koinis-Mitchell D, **Lyall K**, Madan J, Marsit C, McEvoy CT, Meeker JD, Oken E, O'Shea TM, Padula AM, Sathyanarayana S, Schantz S, Schmidt RJ, Snowden J, Stanford JB, Weiss S, Wright RO, Wright RJ, Zhang X, McGrath M. Association of maternal education, neighborhood deprivation, and racial segregation with gestational age at birth by maternal race/ethnicity and United States Census region in the ECHO cohorts. *Front Public Health.* 2023 Nov 30;11:1165089. doi: 10.3389/fpubh.2023.1165089. PMID: 38098826; PMCID: PMC10719953.
 31. Bragg MG*, Westlake M, Alshawabkeh AN, Bekelman TA, Camargo CA Jr, Catellier DJ, Comstock SS, Dabelea D, Dunlop AL, Hedderson MM, Hockett CW, Karagas MR, Keenan K, Kelly NR, Kerver JM, MacKenzie D, Mahabir S, Maldonado LE, McCormack LA, Melough MM, Mueller NT, Nelson ME, O'Connor TG, Oken E, O'Shea TM, Switkowski KM, Sauder KA, Wright RJ, Wright RO, Zhang X, Zhu Y, **Lyall K**; program collaborators for Environmental influences on Child Health Outcomes. Opportunities for Examining Child Health Impacts of Early-Life Nutrition in the ECHO Program: Maternal and Child Dietary Intake Data from Pregnancy to Adolescence. *Curr Dev Nutr.* 2023 Oct 23;7(11):102019. doi: 10.1016/j.cdnut.2023.102019. PMID: 38035205; PMCID: PMC10681943.
 32. Oppenheimer AV*, Weisskopf MG, **Lyall K**. An Examination of Family Transmission of Traits Measured by the Social Responsiveness Scale-Short Form. *J Autism Dev Disord.* 2023 Sep 13. doi: 10.1007/s10803-023-06115-2. Epub ahead of print. PMID: 37702820.
 33. Sauder KA, Couzens GL, Bailey RL, Hockett CW, Switkowski KM, **Lyall K**, Kerver JM, Dabelea D, Maldonado LE, O'Connor TG, Deoni SC, Glueck DH, Catellier DJ; program collaborators for Environmental influences on Child Health Outcomes. Reply to E Ciappio et al. *Am J Clin Nutr.* 2023 Sep;118(3):731-732. doi: 10.1016/j.ajcnut.2023.06.019. PMID: 37661110.
 34. Sauder KA, Cohen CC, Mueller NT, Hockett CW, Switkowski KM, Maldonado LE, **Lyall K**, Kerver JM, Dabelea D, O'Connor TG, Glueck DH, Melough MM, Couzens GL, Catellier DJ; program collaborators for Environmental influences on Child Health Outcomes; ECHO Components—Coordinating Center; Smith PB, Newby KL, Benjamin DK; Data Analysis Center; ECHO Awardees and Cohorts. Identifying Foods That Optimize Intake of Key Micronutrients During Pregnancy. *J Nutr.* 2023 Oct;153(10):3012-3022. doi: 10.1016/j.tjnut.2023.08.012. Epub 2023 Aug 19. PMID: 37604382; PMCID: PMC10613721.
 35. **Lyall K**, Rando J, Wang S, Hamra GB, Chavarro J, Weisskopf MG, Croen LA, Fallin MD, Hertz-Picciotto I, Volk HE, Schmidt RJ, Newschaffer CJ. Examining Prenatal Dietary Factors in

- Association with Child Autism-Related Traits Using a Bayesian Mixture Approach: Results from 2 United States Cohorts. *Curr Dev Nutr*. 2023 Jul 25;7(8):101978. doi: 10.1016/j.cdnut.2023.101978. PMID: 37600935; PMCID: PMC10432916.
36. Patti MA*, Ning X, Hosseini M, Croen LA, Joseph RM, Karagas MR, Ladd-Acosta C, Landa R, Messinger DS, Newschaffer CJ, Nguyen R, Ozonoff S, O'Shea TM, Schmidt RJ, Trevino CO, **Lyall K**. A Comparative Analysis of the Full and Short Versions of the Social Responsiveness Scale in Estimating an Established Autism Risk Factor Association in ECHO: Do we Get the Same Estimates? *J Autism Dev Disord*. 2023 Jul 22. doi: 10.1007/s10803-023-06020-8. Epub ahead of print. PMID: 37480437.
 37. Wood CT, Churchill ML, McGrath M, Aschner J, Brunwasser SM, Geiger S, Gogcu S, Hartert TV, Hipwell AE, Lee-Sarwar K, **Lyall K**, Moog NK, O'Connor TG, O'Shea TM, Smith PB, Wright RJ, Zhang X, Zimmerman E, Huddleston KC, Brown CL; program collaborators for Environmental influences on Child Health Outcomes. Maternal stress and early childhood BMI among US children from the Environmental influences on Child Health Outcomes (ECHO) program. *Pediatr Res*. 2023 Jul 21. doi: 10.1038/s41390-023-02750-8. Epub ahead of print. PMID: 37479746.
 38. Sauder KA, Couzens L, Bailey RL, Hockett CW, Switkowski KM, **Lyall K**, Kerver JM, Dabelea D, Maldonado LE, O'Connor TG, Deoni SC, Glueck DH, Catellier DJ; program collaborators for Environmental Influences on Child Health Outcomes. Reply to H Wang and M Chichlowski. *Am J Clin Nutr*. 2023 Jul;118(1):339-340. doi: 10.1016/j.ajcnut.2023.04.030. Epub 2023 Jun 12. PMID: 37407168.
 39. Bekelman TA, Trasande L, Law A, Blackwell CK, Jacobson LP, Bastain TM, Breton CV, Elliott AJ, Ferrara A, Karagas MR, Aschner JL, Bornkamp N, Camargo CA Jr, Comstock SS, Dunlop AL, Ganiban JM, Gern JE, Karr CJ, Kelly RS, **Lyall K**, O'Shea TM, Schweitzer JB, LeWinn KZ. Opportunities for understanding the COVID-19 pandemic and child health in the United States: the Environmental influences on Child Health Outcomes (ECHO) program. *Front Pediatr*. 2023 Jun 15;11:1171214. doi: 10.3389/fped.2023.1171214. PMID: 37397146; PMCID: PMC10308998.
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 41. **Lyall K**. What are quantitative traits and how can they be used in autism research? *Autism Res*. 2023 Jul;16(7):1289-1298. doi: 10.1002/aur.2937. Epub 2023 May 22. PMID: 37212172.
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110. **Lyall K.**, Van de Water J., Ashwood P., Hertz-Picciotto I. (2013). Maternal immune-mediated conditions, autism spectrum disorders, and developmental delay. *Journal of Autism and Dev Disorders.* 44(7):1546-55.
111. Roberts A.L., **Lyall K.**, Hart J.E., Laden F., Just A.C., Bobb J.F., Koenen K.C., Ascherio A., Weisskopf M.G. (2013). Perinatal air pollutant exposures and autism spectrum disorder in the children of Nurses' Health Study II participants. *Environmental Health Perspectives,* 121(8):978-84.
112. **Lyall K.**, Baker A., Hertz-Picciotto I., Walker C. (2013). Infertility and its treatments in association with autism spectrum disorders: A review and results from the CHARGE study. *International Journal of Environmental Research in Public Health,* 10(8):3715-34.
113. **Lyall K.**, Munger K., O'Reilly E., Santangelo S.L., Ascherio A. (2013). Maternal dietary fat and fatty acid intake and autism spectrum disorders. *American Journal of Epidemiology,* 178(2):209-20.
114. Roberts A.L., **Lyall K.**, Rich-Edwards J.W., Ascherio A., Weisskopf M.G. (2013) Association of maternal exposure to childhood abuse with elevated risk for autism in offspring. *Journal of the American Medical Association Psychiatry,* 70(5):508-15.
115. **Lyall K.**, Pauls D.L., Santangelo S., Speigelman D., Ascherio A. (2012). Fertility therapies, infertility, and autism spectrum disorders in the Nurses' Health Study II. *Paediatric and Perinatal Epidemiology,* Jul;26(4):361-72.
116. **Lyall K.**, Pauls D.L., Santangelo S., Speigelman D., Ascherio A. (2011). Maternal early life factors associated with hormone levels and the risk of having a child with an autism spectrum disorder in the Nurses Health Study II. *Journal of Autism and Developmental Disorders.* 41 (5):618-627.
117. **Lyall K.**, Pauls D.L., Speigelman D., Ascherio A., Santangelo S. (2011). Pregnancy complications and obstetric suboptimality as risk factors for autism spectrum disorders in children of the Nurses' Health Study II. *Autism Research,* 5(1):21-30.
118. Gao X., **Lyall K.**, Palacios N., Walters A.S., Ascherio A. (2011). RLS in middle aged women and attention deficit/hyperactivity disorder in their offspring. *Journal of Sleep Medicine,* 12 (1): 89-91.

Chapters

1. *Patti M, Schmidt RJ, Hertz-Picciott I, **Lyall K.** (In Press). Environmental Factors in the Preconception and Prenatal Periods in Relation to Risk for Autism. In F. Volkmar, K. Pelphrey and G. Vivanti (Eds). *The Handbook of Autism and Pervasive Developmental Disorders*, 5th Edition. Hoboken NJ: John Wiley & Sons.
2. *Mathew L, *Kauffman E, Schmidt R, Hertz-Picciotto I, **Lyall K.** (2018). Environmental Risk Factors for Autism. In F.R. Volkmar (Ed.), *Encyclopedia of Autism Spectrum Disorders* (pp.1-14). New York, NY: Springer New York.
3. **Lyall K.**, Schmidt R, Hertz-Picciotto I. (2014). Environmental Factors in Autism. In F. Volkmar, R. Paul, S.J. Rogers, K.A. Pelphrey (Eds): *Handbook of Autism and Pervasive Developmental Disorders, Fourth Edition: Assessment, Interventions, Policy, the Future*. Hoboken NJ: John Wiley & Sons.
4. **Lyall K.**, Gardener H. (2014). Perinatal factors in Autism Epidemiology: Obstetric and Neonatal Complications. In V. Patel, V. Preedy, C. Martin (Eds): *The Comprehensive Guide to Autism*. Springer-Verlag.
5. **Lyall K.**, Schmidt R, Hertz-Picciotto I. (2012). The Environment in Autism Spectrum Disorders. In J. Buxbaum, P. Hof (Eds): *The Neuroscience of Autism Spectrum Disorders*. Amsterdam: Academic Press.
6. **Lyall K** and Pauls D. Inheritance of mental illness. *Encyclopedia of Neuroscience*, 3rd edition, Elsevier Science, 2003.

Presentations (First author and trainee-led only listed; includes trainee-presented oral presentations)

Conference poster presentations

1. **Lyall K**, Rando J, Carroll K, Eick SM, Karagas M, Lin P, Schmidt RJ, Bragg M. A mixtures approach to examining prenatal dietary factors in association with child autism-related outcomes: Results from the ECHO Cohort. Developmental Origins of Health and Disease (DOHaD), October 2024, North Carolina.
2. Vecchione R*, Westlake M, Bragg MG, Rando J, Bennett DH, Croen LA, Dunlop AL, Ferrara A, Hedderson MM, Kerver JM, Lee BK, Lin PID, Hertz-Picciotto I, Schmidt RJ, Strakovsky RS, **Lyall K**, for the ECHO Cohort Consortium. Maternal Dietary Patterns During Pregnancy and Child Autism-Related Traits in the Environmental Influences on Child Health Outcomes Consortium. Developmental Origins of Health and Disease (DOHaD), October 2024, North Carolina.
3. Bragg M*, Rando J, Carroll K, Eick SM, Karagas M, Lin P, Schmidt RJ, **Lyall K**. The association of prenatal dietary factors with child autism diagnosis and autism-related traits using a mixtures approach: Results from the ECHO Cohort. American Society for Nutrition, June 2023.
4. **Lyall K**, Dickerson A, Green A, Croen LA, Ames J, Avalos L, Aschner JL, Carmago C, D'Sa V, Dunlop AL, Ganiban J, Gern JE, Gissandaner T, Hertz-Picciotto I, Hipwell AE, Miller M, Karagas M, Kelly R, Koinis-Mitchell D, McEvoy CT, Oken E, Ozonoff S, Page GP, Schantz S, Schmidt R, Schuster C, Schweitzer JB, Sheinkopf SJ, Stanford JB, Weiss S, Volk H, Joseph R, *for the ECHO program*. (2023). Demographic correlates of autism: How do associations compare across diagnosis and a quantitative trait measure? Poster presentation at the Poster Presentation at International Society for Autism Research (INSAR), Poster Presentation at International Society for Autism Research (INSAR), May 2023, Stockholm, Sweden.
5. Marisa A Patti*, Peggy Ning, Mina Hosseini, Lisa Croen, Robert M Joseph, Margaret R Karagas, Christine Ladd-Acosta, Rebecca Landa, Daniel Messinger, Craig Newschaffer, Ruby Nguyen, Sally Ozonoff, T Michael O'Shea, Rebecca J Schmidt, Cindy Trevino, **Kristen Lyall**. (2023). A comparative analysis of a shortened version of the Social Responsiveness Scale in estimating an establishing autism risk factor association: Do we get the same estimates? Poster Presentation at International Society for Autism Research (INSAR), May 2023, Stockholm, Sweden.
6. Caichen Zhong*, Heather E. Volk, Rebecca J. Schmidt, Lisa A. Croen, M. Daniele Fallin, Irva Hertz-Picciotto, Craig J. Newschaffer, Brian K. Lee, **Kristen Lyall**. (2023). Prevalence of self-reported medication use during early pregnancy in the Early Autism Risk Longitudinal Investigation (EARLI). Poster Presentation at International Society for Autism Research (INSAR), May 2023, Stockholm, Sweden.
7. Meghan E. Carey*, **Kristen Lyall**, Diana Schendel, Laura Graham Holmes Brian K. Lee, Steven Marcus, Lindsay Shea. (2023). Prevalence and patterns of co-occurring mental health and neurodevelopmental conditions among autistic young people. Oral Presentation by mentee Carey at International Society for Autism Research (INSAR), May 2023, Stockholm, Sweden.
8. Giacomo Vivanti, Bridget Toroni, Alexis Brownell, Geraldine Dawson, Matias Di Martino, Steven Espinosa, Katharine Ference, Jacqueline Flowers, Ronald Librizzi, Guillermo Sapiro, Nathaniel Snyder, Jillian Stanley, David Vettori, Craig Newschaffer, Kristen Lyall. Feasibility of Building a Streamlined Birth Cohort to Examine Biomarkers related to Autism in a Community-Based Health System. Poster Presentation at International Society for Autism Research (INSAR), May 2023, Stockholm, Sweden.
9. Rando J*, Vecchione R*, Hamra G, Volk HE, Fallin MD, Croen LA, Hertz-Picciotto I, Newschaffer CJ, Schmidt RJ, **Lyall K**. (2022) A mixtures approach to assessing the association of prenatal diet and autism-related outcomes in the EARLI study. Poster Presentation at International Society for Autism Research (INSAR), May 2022, Austin TX.
10. *Carey M, Snyder N, James J, Melnyk S, Hertz-Piccoto I, Fallin MD, Croen LA, Newschaffer CJ, **Lyall K**. (2021) Examining the association between prenatal oxidative stress and autism spectrum disorder. Virtual oral presentation at the Society for Perinatal Epidemiology, June 2021.
11. *Joyce E, Schmidt R, Song A, Volk HE, Croen LA, Fallin MD, Hertz-Picciotto I, Newschaffer CJ, Chavarro J, **Lyall K**. (2021) Association between prenatal exposure to pesticide residues in the

- diet and child autism-related traits in a high-risk cohort. Abstract e-presentation at International Society for Autism Research (INSAR), May 2021.
12. *Zhong C, Kauffman E, Shah R, Salafia C, Croen LA, Fallin MD, Hertz-Picciotto I, Walker CK, Newschaffer C, **Lyall K.** (2020). Placental morphology in association with autism-related traits in the EARLI study. Abstract e-presentation (due to COVID-19) at International Society for Autism Research (INSAR), May 2020.
 13. *Vigna C, *Vecchione R, *Whitman C, Braun J, Chen A, Hamra GB, Lanphear B, Yolton K, Croen LA, Fallin MD, Hertz-Picciotto I, Kauffman E, Xu Y, Newschaffer C, **Lyall K.** (2020). Maternal fish intake during pregnancy in association with child autism-related traits. Abstract e-presentation at INSAR.
 14. *Kauffman E, *Whitman C, Snyder N, Stephen Melnyk, Newschaffer C, **Lyall K.** Association of maternal plasma biomarkers of oxidative stress with autism-related traits in the EARLI study. Abstract e-presentation, INSAR, May 2020.
 15. *Vecchione R, Zhong C, Schmidt RJ, Croen LA, Fallin MD, Hertz-Picciotto I, Newschaffer CJ, **Lyall K.** (2020). Maternal dietary patterns in association with child autism-related traits. Abstract e-presentation, INSAR, May 2020.
 16. *Mathew L, Snyder NW, **Lyall K,** Lee BK, Fallin MD, Croen LA, Hertz-Picciotto I, Newschaffer CJ. (2020). Association of prenatal phthalate exposure with autism phenotype: Exposure measurement in maternal urine and meconium. Abstract e-presentation, INSAR, May 2020.
 17. **Lyall K,** Hosseini M, Ladd-Acosta C, Constantino JC, Croen LA, Kaat A, Fallin MD, Hazlett H, Hertz-Picciotto I, Landa R, Messinger D, Ozonoff S, Piven J, Pandey J, Schultz RT, Newschaffer CJ. (2020). Distributional Properties and Criterion Validity of a Shortened Version of the Social Responsiveness Scale: Implications for Quantitative Trait Research. Abstract e-presentation, INSAR, May 2020.
 18. **Lyall K,** Kauffman E, Fallin MD, Ladd-Acosta C, Volk HE, Croen LA, Dager S, Hazlett H, Landa R, Messinger D, Ozonoff S, Piven J, Newschaffer CJ. (2020). Quantitative Trait Score Anomalies in ASD-Enriched Risk Families: Discrepancies between Social Responsiveness Scale T-Score and ASD Case Status in Younger Siblings of ASD Probands. Abstract e-presentation, INSAR, May 2020.
 19. **Lyall K,** Windham GC, Whitman C, Snyder N, Newschaffer C. (2019). Neonatal levels of polyunsaturated fatty acids in association with autism spectrum disorder. Society for Pediatric and Perinatal Epidemiologic Research (SPER), Minneapolis, MN. June 2019.
 20. **Lyall K,** Windham GC, Snyder N, Whitman C, Newschaffer C. (2019). Neonatal levels of polyunsaturated fatty acids in association with autism spectrum disorder. INSAR, Montreal, Canada, May 2019.
 21. **Lyall K,** Windham GC, Snyder N, Newschaffer C. (2018). Prenatal levels of polyunsaturated fatty acids in association with autism spectrum disorder. Society for Epidemiologic Research (SER), Baltimore, MD. June 2018.
 22. **Lyall K,** Windham GC, Croen L. (2017). Prenatal levels of brominated flame retardants in association with autism spectrum disorder and intellectual disability: Potential sex differences. International Meeting for Autism Research (IMFAR), San Francisco, CA. May 2017.
 23. **Lyall K,** Solomon M, Daniels J, Hertz-Picciotto I. (2013) Inattention and hyperactivity in association with autism spectrum disorders in the CHARGE study. IMFAR, San Sebastian, Spain, May 2013.
 24. **Lyall K,** Munger S, Weisskopf M, Santangelo S, Ascherio A. (2012). Maternal dietary fat intake and autism spectrum disorders. International Society for Environmental Epidemiology (ISEE), Columbia, SC, August 2012.
 25. **Lyall K,** Munger S, Weisskopf M, Santangelo S, Ascherio A. (2012). Maternal dietary fat intake and autism spectrum disorders. SER Annual Meeting, Minneapolis, MN, June 2012.
 26. **Lyall K,** Ashwood P, Van de Water J, Hertz-Picciotto I. (2012). Maternal immune-mediated conditions in association with child immune-related outcomes and autism spectrum disorders. SER Annual Meeting, Minneapolis, MN, June 2012.
 27. **Lyall K,** Munger S, Weisskopf M, Santangelo S, Ascherio A. (2012). Maternal dietary fat intake and autism spectrum disorders. IMFAR, Toronto, CA, May 2012.

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28. **Lyall K**, Ashwood P, Van de Water J, Hertz-Picciotto I. (2012). Maternal immune-mediated conditions in association with child immune-related outcomes and autism spectrum disorders. IMFAR, Toronto, Canada, May 2012.
29. **Lyall K**, Ashwood P, Van de Water J, Hertz-Picciotto I. (2012) Asthma and allergies in children with autism spectrum disorders: Results from the CHARGE study. IMFAR, Toronto, Canada, May 2012.
30. **Lyall K**, Weisskopf M, Santangelo S, Pauls D, Spiegelman D, Ascherio A. (2011). Use of Fertility therapies in association with autism spectrum disorders in children of the Nurses' Health Study II. SER Annual Meeting, Montreal, QC, Canada, June 2011.
31. **Lyall K**, Weisskopf M, Santangelo S, Pauls D, Spiegelman D, Ascherio A. (2011). Use of Fertility therapies in association with autism spectrum disorders in children of the Nurses' Health Study II. IMFAR, San Diego, CA.
32. **Lyall K**, Weisskopf M, Santangelo S, Pauls D, Spiegelman D, Ascherio A. (2010). Pregnancy complications and obstetric suboptimality as risk factors for autism spectrum disorders in children of the Nurses' Health Study II. IMFAR, Philadelphia, PA, May 2010.
33. **Lyall K**, Weisskopf M, Santangelo S, Pauls D, Spiegelman D, Ascherio A. (2010). Association between ovulation inducing drug use, infertility, and autism spectrum disorders in the Nurses' Health Study II. SER Annual Meeting, Seattle, WA, June 2010.
34. **Lyall K**, Weisskopf M, Santangelo S, Pauls D, Spiegelman D, Ascherio A. (2010). Pregnancy complications and obstetric suboptimality as risk factors for autism spectrum disorders in children of the Nurses' Health Study II. SER Annual Meeting, Seattle, WA, June 2010.

Conference oral presentations

1. Examining the role of diet in associations between endocrine disrupting chemicals and autism spectrum disorder. Symposium on Plastics and Human Health, NYU Langone Health. September 2024.
2. The role of prenatal diet in relationship to autism. Tufts Nutrition Convening. June 2023.
3. Examining & Communicating the Role of Neighborhood & Diet in the Study of Endocrine Disrupting Chemicals & Child Neurodevelopment: Preliminary Results from a Pilot Project. Philadelphia Regional Center for Children's Environmental Health (PRCCEH) Annual Retreat Meeting. July 2023.
4. Presentation entitled: "Opportunities for Advancing Autism Research in the US Environmental influences on Child Health Outcomes (ECHO) Program" at the Environmental Epidemiology Autism Research Network (EARN) meeting. May 2023.
5. *Panel session organizer and moderator: Quantitative Traits as captured by the Social Responsiveness Scale in ASD Research: Addressing measurement, etiology, and more. INSAR, May 2022.
6. A validation study of abbreviated versions of the SRS and implications for epidemiologic analysis. Panel Presentation, INSAR May 2022.
7. Maternal diet as a modifier of environmental risk factors for child neurodevelopmental outcomes: Existing evidence, preliminary results, and future directions. Symposium Presentation, ISEE (virtual), August 2021.
8. Optimizing social communication measurement with the Social Responsiveness Scale. ECHO Spring Conference, (virtual), April 2021.
9. Measuring social communication and autistic traits using the Social Responsiveness Scale: Examining implications of shortening quantitative trait measures. Developmental Origins of Health and Disease (DOHaD) Society Meeting, Raleigh, NC, September 2019.
10. Prenatal levels of polyunsaturated fatty acids in association with autism spectrum disorder. International Society for Autism Research (INSAR), Rotterdam, Netherlands, May 2018.
11. Neonatal thyroid hormone levels in association with autism spectrum disorder. International Meeting for Autism Research (IMFAR), Baltimore, MD. May 2016.
12. Organochlorine chemical concentrations in maternal mid-pregnancy serum samples: Association with autism spectrum disorders in the Early Markers of Autism Study. IMFAR, Salt Lake City, UT, May 2015.

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13. Familiarity of Social Responsiveness Scale Scores in the Nurses' Health Study II. Society for Epidemiologic Research (SER) Annual Meeting, Boston, MA, June 2013.
14. Familiarity of Social Responsiveness Scale Scores in the Nurses' Health Study II. IMFAR, San Sebastian, Spain, May 2013.
15. The epidemiology of autism spectrum disorders. Asperger's Association of New England (AANE), Boston, MA, Fall 2009.
16. Association between ovulation inducing drug use, infertility, and autism spectrum disorders in the Nurses' Health Study II. IMFAR, Philadelphia, PA, May 2010.

Invited presentations

- 6/2024 Presenter, ECHO Discovery Series
Topic: *Fish consumption during pregnancy and impacts on child health*
- 3/2024 Invited speaker, UNC Seminar Series
Topic: *Environmental risk factors in autism: Population-level effects and modifiable exposures*
- 7/2023 Invited speaker, Autism Society for America Panel of Professional Advisors
Topic: *Overview of autism epidemiology*
- 7/2023 Presenter, Philadelphia Regional Center for Children's Environmental Health (PRCCEH)
Topic: *Examining & Communicating the Role of Neighborhood & Diet in the Study of Endocrine Disrupting Chemicals & Child Neurodevelopment: Preliminary Results from a Pilot Project*
- 7/2022 Presenter, Philadelphia Regional Center for Children's Environmental Health (PRCCEH)
Topic: *Endocrine disrupting chemicals and autism spectrum disorder*
- 9/9/2021 Speaker, Karolinska and Bristol (KaBris) Research Group Annual Research Group Meeting
Topic: *Maternal diet as a modifier of environmental risk factors for child neurodevelopmental outcomes: Existing evidence, preliminary results from an autism high risk cohort, and future directions.*
- 9/8/2021 Presenter, ECHO Discovery Series
Topic: *Optimizing Neurodevelopmental Assessments in ECHO: Validating Measures and Capturing Critical Periods of Development*
- 4/27/2021 Invited speaker, Child Health Research Seminar Series, Mt. Sinai Icahn School of Medicine.
Topic: *Environmental Risk Factors for Autism Spectrum Disorder.*
- 4/28/2020 Presentation to the Neurodevelopment Working Group of ECHO.
Topic: *Optimizing social communication measurement with the Social Responsiveness Scale: Results from an OIF award.*
- 11/13/2019 Presentation to the Postdoctoral Fellows and Trainees Seminar, AJ Drexel Autism Institute, Drexel University, Philadelphia PA.
Topic: *Careers in and out of academia.*
- 11/7/2019 Presentation to the AJ Drexel Autism Institute Leadership Council, Philadelphia PA.
Topic: *Modifiable Risk Factors Program: Goals and Research Overview.*
- 10/24/2019 Presentation to the Early Detection and Intervention Program "Meet the Author" Journal Club, AJ Drexel Autism Institute, Drexel University, Philadelphia PA.
Topic: *Epidemiologic investigation of environmental risk factors for ASD: Discussion of Lyall et al 2017 Environmental Health Perspectives. 125(3):474-480.*
- 6/5/2019 AJ Drexel Autism Institute Work in Progress (WIP) session.
Topic: *ASD Quantitative trait scores in high-risk families: uncovering anomalies.*
- 11/12/2018 AJ Drexel Autism Institute Work in Progress (WIP) session.
Topic: *Maternal prenatal polyunsaturated fatty acid levels in association with offspring ASD: Results and what to do when findings don't present a clear picture.*
- 9/2015 AJ Drexel Autism Institute No Power Point Lunch series.
Topic: *Environmental risk factors for ASD.*

Grants and Contracts

Ongoing

09/1/2023 – 08/31/2025

NIH UG3OD023342-08 \$1,137,032

Trajectories and Environments in Autism: a Multi-cohort Study (TEAMS) following autism families in ECHO Phase 2 (MPIs:Lyall, Volk)

Role: MPI

2/1/2023-1/31/2025 \$100,000

Eagles Autism Foundation Postdoctoral Fellowship

Prenatal cardiometabolic health practices and child autism-related outcomes

PI: Bragg

Role: Mentor

10/1/2022-9/30/2027

NIH ACE Program \$11,458,898

PHASES: Public health and autism science advancing equitable strategies across the life course

PIs: Robins, Schendel

Role: Co-Investigator

10/1/2022-9/30/2027

NIH ACE Program \$358,315 (subcontract)

GEARs: Combining advances in Genomics and Environmental science to accelerate Actionable Research and practice in ASD

PIs: Ladd-Acosta, Volk

Role: Co-Investigator

9/1/23- 8/31/2028

NIH 1R01NS131433 \$4,023,788

LEGENDS: Linking Epidemiology and Genetics of Neurodevelopmental and Neurodegenerative Disorders Study

PI: Lee

Role: Co-Investigator

8/1/2021-5/31/2026

NIEHS R01ES032469 \$2,548,149

Examining dietary modifiers of associations between air pollution and autism-related outcomes in two cohorts (PIs: Lyall, Volk)

Role: MPI

3/1/2020-12/31/2024

NIH R01ES029511 \$219,706 (subcontract)

Metals dysregulation, brain development, and autism disorder (PI: Volk)

Role: Co-Investigator/site PI

1/24/2020-10/31/2024

NIH R24ES030893 \$287,837 (subcontract)

Expanding the value of the EARLI study: Small cohort with big data (PI:Fallin)

Role: Co-Investigator/site PI

Completed

2/1/2023-1/31/2024 \$25,000

Updated: April 2025

Philadelphia Regional Center for Children's Environmental Health Catalyst Pilot Program
Examining and communicating the role of neighborhood and diet in the study of endocrine disrupting chemicals and child neurodevelopment: A pilot project

PI: Lyall

Role: PI

09/21/2016 – 08/31/2023

NIH UH3OD023342 \$12,943,958

An ASD-Enriched Risk (ASD-ER) ECHO Cohort (MPIs:Lyall, Volk)

Role: MPI

7/1/2019-6/30/2023

NIH R01NS107607-01A1 \$2,143,587

Maternal epilepsy, anti-epileptic drug use during pregnancy, and risk of autism (PI: Lee)

Role: Co-Investigator

6/01/2019-5/31/2022

NJ Governor's Council \$192,000 (subcontract)

Building a streamlined birth cohort to study autism risk factors and biomarkers (PIs: Librizzi, Newschaffer)

Role: Co-Investigator

4/1/2019-4/30/2022 (NCE)

Eagles Foundation \$285,000

Maternal dietary patterns during pregnancy in association with autism and autism spectrum disorder traits

Role: PI

8/15/2018-4/30/2022 (NCE)

NIH R21 HD096356-01 \$434,326

Oxidative stress pathways and placental pathology in association with autism spectrum disorder and neurodevelopment (PI: Lyall)

Role: PI

7/1/2015-6/29/2022 (NCE)

NIH R01ES025574 \$14,262 (subcontract)

Folic acid prevention pathways for ASD in high-risk families (PI: Schmidt)

Role: Co-Investigator/site PI

9/15/2017-8/31/2022 (NCE)

NIH R01ES026903 \$1,449,247

Prenatal exposure to endocrine disrupting chemical mixtures and ASD risk (PI: Newschaffer)

Role: Co-Investigator

3/1/2020-2/28/2021

Epidemiology Dept Pilot Funding \$10,000

Development and validation of scores indexing pesticide residues in pregnant women (PI: Lyall)

Role: PI

4/1/2018-2/29/21 (NCE)

NIH/ECHO OIF 1U2COD023375-02 \$103,355

Optimizing social communication measurement with the Social Responsiveness Scale (PI: Lyall)

Role: PI

9/30/2016-9/30/2020 (NCE)

DoD/CDMRP/USAMRAA AR150143 \$518,857

Prenatal polyunsaturated fatty acid levels and risk of autism spectrum disorder (PI: Lyall)

Role: PI

9/30/2016-8/31/2021

NIH R01ES025531 \$77,508 (subcontract)

Prenatal exposure to metals and risk for Autism Spectrum Disorder in MARBLES and EARLI (PI: Fallin)

Role: Co-Investigator

TEACHING AND MENTORING

Teaching Experience

Drexel University

2/2024 Guest lecturer, Pediatric Engineering, Drexel University, Philadelphia PA
Topic: Epidemiology of Autism

Fall 2021 Instructor and course developer, "Headlines, Hashtags and Health" (3 credits), Dornsife SPH, Drexel University, Philadelphia PA

Winter 2020-2023 Co-Instructor, Advanced Epidemiology (4 credits) Dornsife SPH, Drexel University, Philadelphia PA

10/2017- 2023 Guest lecturer, Grant Writing Seminar, Dornsife SPH, Drexel University, Philadelphia PA
Topics: Grant writing challenges and successes; Proposal review and feedback

9/2019-3/2022 Neurodevelopmental Epidemiology Research Group (NERG), Drexel University
Topics: Heritability of ASD, risk communication, environmental risk factors

10/2017 Guest lecturer, Methods for Public Health Research, Drexel University, Philadelphia PA
Topic: Cohort and longitudinal studies

Other Universities

3/2017, 2/2019, 2/2021, 2/2023 Guest lecturer, Neuroepidemiology, Harvard School of Public Health, Boston MA
Topic: The epidemiology of autism spectrum disorders.

10/2016 Guest lecturer, Philadelphia Neuropsychology Society, Drexel University
Topic: Risk Factors for Autism Spectrum Disorder: A focus on the Modifiable.

8/2013 Guest lecturer, UC Davis Child Psychiatry Residents course in ASD
Topic: Environmental factors and the epidemiology of ASD

4/2012 Lecturer, Epidemiology sessions for postdoctoral students and residents in the Autism Research Training Program, UC Davis.
Topics: Basic epidemiology, study design, and maternal reproductive risk factors for ASD.

1/2012 Guest lecturer, undergraduate autism group, UC Davis.
Topic: Epidemiology of autism and prenatal risk factors for autism.

10/2010-5/2013 Guest lecturer, undergraduate journal club, UC Davis.
Topics: Prenatal risk factors for autism spectrum disorders; Infertility and autism spectrum disorders; Meta-analysis of assisted reproductive therapies and developmental disorders; Environmental toxins and ASD; ADHD and ASD.

4/2011 Guest lecturer, SPH 255: Reproductive Epidemiology, UC Davis.
Topic: Epidemiology and health outcomes of infertility and fertility therapies.

9/2008 Guest lecturer, Epidemiology of Psychiatric Disorders, Harvard School of Public Health.
Topic: Autism: Diagnosis, epidemiology, and etiology.

Teaching assistant, Harvard School of Public Health:

2/2008-5/2008 Epidemiology 204: The Analysis of Case-Control and Cohort Studies

10/2006-12/2007	Spring semester course, 100 students Epidemiology 202: Elements of Epidemiologic Research
9/05-10/06	Fall semester course, 100 students Epidemiology 201: Principles of Epidemiology
7/05-7/08	Fall semester course, 100 students Epidemiology 236: Analytical Aspects of Clinical Epidemiology 2 month summer course, 50 students

Mentoring

09/2022-	Apollo Kivumbi, Doctoral candidate in Epidemiology, Drexel University
09/2022-5/2023	Nidhi Khadke, MPH candidate in Epidemiology, Drexel University
08/2022-	Marisa Patti, Postdoctoral Fellow, Drexel University
10/2021-12/2024	Megan Bragg, Postdoctoral Fellow, Drexel University
9/2021-05/2022	Dior Rodgers, Liberty Scholar Mentee, BA Candidate, Drexel University
9/2020-05/2022	Olivia Vessey, MPH Candidate in Epidemiology, Drexel University
9/2020-08/2024	Meghan Carey, PhD candidate in Epidemiology, Drexel University
5/2020-5/2021	Emily Joyce, MPH candidate in Epidemiology, Drexel University
1/2020-5/2024	Caichen Zhong, PhD candidate in Epidemiology, Drexel University
9/2019-	Rachel Vecchione, PhD candidate in Epidemiology, Drexel University
1/2019-3/2020	Yaning Zhang, MPH in Epidemiology, Drexel University
8/2018-3/2020	Casey Whitman, MS in Biostatistics, Drexel University
2/2018-3/2019	Chelsea Vigna, MPH in Epidemiology, Drexel University
9/2012-9/2013	Yuanyuan Liu, M.S. candidate in epidemiology at Harvard School of Public Health. <i>Topic: Breastfeeding in association with autism.</i>
11/2011-9/2013	Chen Ying Wu, M.S. candidate in epidemiology at Harvard School of Public Health. <i>Topic: Jaundice in association with autism.</i>

Dissertation Committees

05/2024-	Jessie Gleason, PhD candidate in Environmental and Occupational Health, Drexel University Committee Member <i>Prenatal per- and polyfluoroalkyl substances (PFAS) exposure and associations with common childhood infections and allergies: A study of risks and resiliencies in the ECHO Program (*funded R36 project)</i> Proposed May 2024
05/2022-	Rachel Vecchione, PhD candidate in Epidemiology, Drexel University Committee Chair <i>The Association Between Inflammatory Dietary Patterns and Maternal Immune Response with autism and autism-related Traits</i> Proposed May 2022
12/2021-8/2024	Meghan Carey, PhD candidate in Epidemiology, Drexel University Committee Chair <i>Elucidating trajectories of co-occurring mental health conditions in autistic transition-age youth</i> Proposed February 2022 Defended August 2024 Postgraduate position: T32 Postdoctoral Trainee at University of Pennsylvania
2/2021-12/2023	Caichen Zhong, PhD candidate in Epidemiology, Drexel University Committee Chair

Updated: April 2025

Maternal psychotropic medications use during pregnancy and autism-related outcomes

Proposed March 2021

Defended December 2023

1/2020-8/2023	Jessica Rast, PhD candidate in Epidemiology and Biostatistics, Drexel University Committee member <i>Risk and risk reduction of antiepileptic drug use during pregnancy</i> Proposed 2019 Defended August 2023 Postgraduate position: Assistant Research Professor, AJ Drexel Autism Institute
1/2019-5/2020	Leny Mathew, PhD candidate in Epidemiology and Biostatistics, Drexel University Committee Chair (*for defense; took on mentorship in 2020) Defended May 2020 <i>Prenatal phthalate exposure and neurodevelopment</i>
10/2017-5/2018	Sherlly Xie, PhD candidate in Epidemiology and Biostatistics, Drexel University, Committee Member <i>Family Neurologic and Psychiatric History and the Risk of Autism Spectrum Disorder.</i> Defended May 2018
10/2016-5/2017	Elizabeth DeVilbiss, PhD candidate in Epidemiology and Biostatistics, Drexel University Committee member Quantifying relationships between maternal folate status and Autism Spectrum Disorders: examination of two European birth cohorts Defended May 2017
1/2015-6/2015	Jennifer Fairthorne, PhD candidate in Epidemiology, University of Western Australia External reviewer <i>Pre-existing differences, health, and quality of life of mothers of children with autism spectrum disorder or intellectual disability</i>
8/2013-9/2013	Kelly D. Getz, Ph.D. candidate in epidemiology, Boston University External reviewer <i>Maternal Factors Shaping the Fetal Environment and the Occurrence of Autism Spectrum Disorders</i>

SERVICE

Academic Service**Service to AJDAI and Drexel University**

6/2023-	Member, Senate Committee on Research Scholarship and Creative Activity
6/2023-10/2023	Member, Tenure Committee for Lindsay Shea
5/2023-7/2023	Member, Drexel-Penn Retreat Planning Committee
9/2022-6/2023	Member, University Research Council
3/2022	Reviewer, Provost Awards for Outstanding Scholarly Productivity
6/2021-12/2021	Chair, Tenure and Promotion Committee for Elizabeth Hassrick
3/2021-5/2021	Session Leader and Planning Committee Member, Rigor and Reproducibility in Scientific Training, Graduate College Retreat, Drexel University, Philadelphia, PA

2/2021	Judge, Dornsife School of Public Health Case Competition
9/2019-2023	Co-Leader, Neurodevelopmental Epidemiology Research Group (NERG), Drexel University
9/2018-2023	Graduate Committee, Department of Epidemiology, Drexel University Member, Graduate Admissions sub-committee

Search committees

2/2019	Member, Director Search Committee, AJ Drexel Autism Institute, Drexel University
12/2018	Member, Tenure Track Associate/Full Professor Program Leader in Modifiable Risk Factors Search Committee, AJ Drexel Autism Institute, Drexel University

Faculty advisor

09/2022-	Apollo Kivumbe, PhD candidate in Epidemiology
09/2022-5/2023	Nidhi Khadke, MPH candidate in Epidemiology
9/2020-5/2022	Olivia Vessey, MPH candidate in Epidemiology
9/2020-8/2024	Meghan Carey, PhD candidate in Epidemiology
1/2020-5/2024	Caichen Zhong, PhD candidate in Epidemiology
9/2019-	Rachel Vecchione, PhD candidate in Epidemiology
1/2019-3/2020	Yaning Zhang, MPH in Epidemiology
2/2018-3/2019	Chelsea Vigna, MPH in Epidemiology

Faculty mentor and supervisor for two-year Research Assistantship at the AJDAI

4/2020-5/2022	Emily Joyce, RAship
8/2018-3/2020	Casey Whitman, RAship

Faculty and mentor and supervisor for AJDAI Internship

9/2020- 12/2020	Faith DiJulia, BA candidate at Penn State
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Faculty advisor for Independent Study

6/2019-8/2019	Caichen Zhong, Independent Study in Nutritional Epidemiology
4/2017-6/2017	Jillian Tessing, Independent Study in Nutritional Epidemiology

Faculty advisor for Applied Practical Experience

4/2019-6/2019	Caichen Zhong, MPH in Epidemiology
6/2024-8/2024	Jimmy McDonnell, MPH in Epidemiology

Faculty preceptor/advisor for Masters Thesis

09/2022-5/2023	Nidhi Khadke, MPH in Epidemiology <i>Prenatal immune markers and autism-related outcomes in a high-risk cohort</i>
9/2021-5/2022	Cassia Brockway, MPH in Epidemiology <i>Maternal sleep and child neurodevelopmental outcomes in a high-risk cohort</i>
9/2021-5/2022	Olivia Vessey, MPH in Epidemiology <i>The association between prenatal physical activity and child autism-related outcomes</i>
9/2021-5/2022	Farah Khursid, MPH in Epidemiology <i>Prenatal antioxidant intake and child neurodevelopmental outcomes</i>
9/2020-6/2021	Emily Joyce, MPH in Epidemiology <i>Food exposure to polychlorinated biphenyls and development of a food-based exposure score</i>
9/2020-6/2021	Anna Bostwick, BS/MPH in Public Health

Updated: April 2025

9/2020-6/2021	<i>Maternal prenatal cotinine levels and interactions with polyunsaturated fatty acids in association with ASD</i> Ihunanya Nwoji, MPH in Public Health
4/2019-12/2020	<i>Levels of polybrominated diphenyl ethers in association with diet: Correlations and associations with child neurodevelopment</i> Caichen Zhong, MPH in Epidemiology
9/2019-3/2020	<i>Placental morphology and vascular features in association with autism-related traits.</i> Casey Whitman, MS in Epidemiology
8/2018-3/2019	<i>Examining mediation by placental morphology in the relationship between prenatal oxidative stress and autism.</i> Chelsea Vigna, MPH in Epidemiology
8/2018-3/2019	<i>Maternal fish intake in association with autism-related traits in the EARLI and HOME studies.</i> Raven Carter, MPH in Epidemiology
8/2018-3/2019	<i>Neonatal polyunsaturated fatty acids in association with autism spectrum disorder.</i> Olivia Judah, MPH in Epidemiology
8/2018-3/2019	<i>Neonatal thyroid hormone levels in association with autism and neurodevelopment.</i>

Service to other Universities

4/2012	Epidemiology training unit planning, Autism Research Training Program, UC Davis
2007-2008	Autism Research Planning Group member, Harvard School of Public Health

Professional Service

4/2025	Reviewer, NIH Loan Repayment Program
9/2024	External Reviewer, Tenure and Promotion, Columbia University
8/2023-	Member, PHASES Community Advisory Board
6/2023-	Publications Committee Member, ECHO Program
1/2023-	Panel of Professional Advisors Member, Autism Society of America
3/2022	External Reviewer, Tenure and Promotion, Mt. Sinai School of Medicine
12/2018-	Reviewer, INSAR abstracts

Grant reviews

6/2024	Review Panel Member, NIH ECHO Opportunities and Innovation Fund (OIF) Awards
6/2023	Review Panel Member, NIEHS, FOA: <i>Biological Basis for how Environmental Exposures Impact Risk for Psychiatric Disorders</i>
10/2022	Review Panel Member, NIEHS, K awards
6/2022	Review Panel Member, SEP, NIEHS NIEHS, ViCTER awards
4/2022	Review Panel Member, NJ Governor's Council for Medical Research and Treatment of Autism
10/2021	Reviewer, Behavioral Genetics and Epidemiology (BGES) Study Section, NIH R01 and R21 applications
7/2021	Reviewer, NIH K99/R00 award applications
3/2019	Reviewer, NIH Special Emphasis Panel/Scientific Review Group, R01 proposals for PA-18-484

Peer Review

Manuscript reviewer for the following journals

2024	Journal of Autism and Developmental Disabilities, Nature Food Reviews, Environmental Health Perspectives
2023	Epidemiology, Autism Research, JAMA Pediatrics
2022	Epidemiology, Autism Research, Nutrition Reviews, Science Advances, Environmental Health Perspectives, Research in Developmental Disorders, Journal of Child Psychology and Psychiatry
2021	Autism Research, Journal of Autism and Developmental Disorders, Environmental Health Perspectives, Environment International
2020	American Journal of Epidemiology, Environment International, Frontiers in Psychiatry, Journal of Autism and Developmental Disorders, JAMA, JAMA Psychiatry, Journal of Child Psychology and Psychiatry, Pediatrics, Research in Autism Spectrum Disorders, Neurotoxicology and Teratology
2019	American Journal of Epidemiology, Autism Research, Environmental Health Perspectives, Environment International, Epidemiology, Molecular Autism, New England Journal of Medicine, Pediatrics, Scientific Reviews, Human Reproduction
2018	Autism Research, British Medical Journal, Environmental Health Perspectives, Environmental Science and Pollution Research, International Journal of Environmental Research and Public Health, Journal of Autism and Developmental Disorders, Journal of Toxicology and Environmental Health, Lancet Psychiatry, Pediatrics, Pediatric and Perinatal Epidemiology, Research in Autism Spectrum Disorders
2017	American Journal of Epidemiology, Autism Research, Environmental Health Perspectives, Environment International, Environmental Toxicology and Chemistry, Internal Journal of Environmental Research in Public Health, JAMA Psychiatry, Journal of Autism and Developmental Disorders, Research in Developmental Disorders
2016	Environmental Health Perspectives, Environmental Research, Internal Journal of Environmental Research in Public Health, Journal of Neurodevelopmental Disorders
2015	Autism, Autism Research, British Journal of Nutrition, JAMA Pediatrics, Pediatric and Perinatal Epidemiology, Molecular Psychiatry
2014	Clinico Economics and Outcomes Research, Journal of Autism and Developmental Disorders, JAMA Psychiatry, Pediatrics
2013	British Journal of Psychiatry, Journal of Autism and Developmental Disorders, Journal of Neurodevelopmental Disorders, Human Reproduction
2012	Autism Research, Environmental Health Perspectives
2011	Journal of Autism and Developmental Disorders

Professional Memberships

2024-	Developmental Origins of Health and Disease (DOHaD)
2022-	Philadelphia Regional Center for Children's Environmental Health
2013-2016	Bay Area Autism Consortium (BAAC)
2012-2014, 2018-	International Society for Environmental Epidemiology (ISEE)
2012-	Environmental Epidemiology Autism Research Network (EEARN)
2010-	International Society for Autism Research (INSAR)
2007-2014, 2018-	Society for Epidemiologic Research (SER)
2020-	Baby Siblings Research Consortium (BSRC)

Leadership

07/2024-10/2024	Co-Chair, ECHO Consortium Fall Face to Face Meeting
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06/2024-	Steering Committee Member, NIH Environmental influences on Child Health Outcomes (ECHO) Consortium Steering Committee
06/2024-10/2024	Co-Chair, Fall ECHO Consortium Investigator Meeting Planning Committee
05/2024-12/2024	Drexel Dragons Leaders Program Selected as a member of the 2024 Drexel Leaders Program, Advancing Dragon Leadership
01/2022-6/2023	Board Member, Tufts <i>Convening on Nutrition and Autism: From Soil to Fork, and Convening Reunion</i>
1/2022-	Chair, ECHO Discovery Series Editorial Board, ECHO Program
5/2020-5/2022	Co-Leader, Obesity and Diet Working Group Break-out Session, ECHO Program Topic: Multiple/combined early life exposures.
10/2019-12/2021	Co-Chair, Obesity and Diet Working Group, ECHO Program
10/2019-10/2022	Leader, Neurodevelopmental Working Group Break-out Session, ECHO Program Topic: Comparisons of neurodevelopmental quantitative traits and diagnoses.
1/2021-	Editorial Board Member, ECHO Discovery Series
1/2021-06/2022	Planning Team Member, Division of Extramural Research and Training (DERT) of the National Institute of Environmental Health Sciences (NIEHS) Workshop on <i>Maternal Diet and Nutrition: magnifying and mitigating the effects of other environmental risks for autism spectrum disorder</i>

Media and Press

12/2024	Invited Guest, "From the Spectrum" podcast. https://rss.com/podcasts/fromthespectrum/1807408/
11/2024	Speaker, "Our ECHO, Our Health" Livestreamed social media event focused on fish intake during pregnancy.
9/2024	<i>Media coverage of Lyall et al., AJCN 2024</i> https://nypost.com/2024/09/05/lifestyle/eating-fish-during-pregnancy-may-lower-autism-risk-by-20-study/ https://drexel.edu/news/archive/2024/September/The-Role-of-Prenatal-Fish-Consumption-on-Autism-Diagnosis
10/2022	Featured in NIEHS Director's Corner. "Autism researcher focuses on maternal diet, prenatal exposures." https://factor.niehs.nih.gov/2022/10/feature/4-feature-autism-research/index.htm
3/2022	Quoted in <i>Spectrum news article addressing INSAR 2022</i> . Spectrum News.
4/2021	"Meet the expert" Drexel University News Blog. https://newsblog.drexel.edu/2021/04/19/autism-acceptance-month-prenatal-and-environmental-risk-factor-expert/
10/2020	Quoted in <i>Philadelphia Inquirer's article on Halloween safety during COVID-19</i> . https://www.inquirer.com/things-to-do/halloween-2020-coronavirus-ideas-costumes-trick-or-treating-safety-20201005.html
6/2020	Included as one of 150 autism researchers in "Understanding a decade of collaborations in autism science," with 13 links noted and a link strength of 16. Spectrum News. https://www.spectrumnews.org/news/researcher-connections-understanding-a-decade-of-collaborations-in-autism-research/

- 5/2020 *Video for the AJ Drexel Autism Institute's Facebook page discussing epidemiology and the current pandemic*
<https://www.facebook.com/AJDrexelAutismInstitute/videos/610509332885297/>
- 5/2020 *Commentary on Bai et al., 2020 Biological Psychiatry.*
 Health Day. <https://consumer.healthday.com/cognitive-health-information-26/autism-news-51/uncles-aunts-may-influence-a-child-s-odds-for-autism-758007.html>
- 5/2020 *Media coverage of Lyall et al., 2020 AUR.* Autism Science Foundation, weekly podcast. <https://asfpodcast.org/archives/985>
- 4/2019 *Meet the Expert.*
 Drexel News Blog. <https://newsblog.drexel.edu/2019/04/24/autism-awareness-month-meet-the-expert-kristen-lyall-modifiable-risk-factor-researcher/>
- 3/2019 *Commentary on Hviid et al., 2019 Annals of Internal Med.*
 Live Science. <https://www.livescience.com/64909-measles-vaccine-not-linked-to-autism.html>
- 8/2018 *Commentary on Brown et al, 2018 Am J Psychiatry and Lyall et al, 2017 EHP.*
<https://www.ehn.org/pesticide-ddt-linked-to-autism-2596392306.html>
- 5/2018 *Commentary on how pregnancy may shape a child's risk for autism.*
 Spectrum news. <https://www.spectrumnews.org/features/deep-dive/pregnancy-may-shape-childs-autism/>
- 9/2017 *Commentary on Zhang et al, 2017 JAMA Netw Open.*
 Insider. <https://www.insider.com/c-section-and-autism-rates-may-be-linked-study-finds-2019-9>
- 8/2016 *Media coverage of Lyall et al., 2017 EHP.*
 Science Daily.
<https://www.sciencedaily.com/releases/2016/08/160823083317.htm>
- Media coverage of Lyall et al., 2017 EHP.*
 Spectrum news. <https://www.spectrumnews.org/news/banned-toxins-in-mothers-blood-tied-to-autism-risk/>
- Media coverage of Lyall et al., 2017 EHP.*
 HealthDay. <https://www.webmd.com/brain/autism/news/20160823/banned-pcb-chemicals-still-tied-to-autism-in-us-kids#1>
- Media coverage of Lyall et al., 2017 EHP.*
 GeneNews. <https://www.genengnews.com/news/autism-risk-linked-to-banned-chemicals-not-vaccines/>
- 5/2010 *Media coverage of Lyall et al., 2010 IMFAR presentation.*
 HealthDay. <https://www.medicinenet.com/script/main/art.asp?articlekey=116435>
- Media coverage of Lyall et al., 2010 IMFAR presentation.*
 TIME. <http://content.time.com/time/health/article/0,8599,1990567,00.html>

Media coverage of Lyall et al., 2010 IMFAR presentation.

Harvard Crimson. <https://www.thecrimson.com/article/2010/5/25/autism-children-fertility-women/>

Consulting and additional service

2022-2023	Expert epidemiologist, provided literature review and summary documentation for litigation case regarding acetaminophen and neurodevelopment.
2022-2023	Expert epidemiologist, provided literature review summary for litigation case regarding metals in baby food.
2020-2022	COVID-19 Health Task Force Member, Bala House Montessori School, Bala Cynwyd, PA.
2012, 2015	Expert epidemiologist, litigation case regarding pharmacy error during pregnancy in mother of a child with autism.