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## Summary

I am an Assistant Professor of Psychiatry at the University of California, San Diego, specializing in psychiatric genetics and the health impacts of substance use disorders, particularly in pregnant women and children. My research integrates psychiatry, epidemiology, clinical psychology, pediatrics, and genetics to examine the biological and environmental factors shaping substance use disorders and related health outcomes across diverse data modalities. For example, I have leveraged electronic health records and large-scale datasets to study the intersections of substance use, healthcare utilization, and maternal, child, and adolescent health. As part of the Collaborative Initiative on Fetal Alcohol Spectrum Disorders (CIFASD), I studied the neurodevelopmental consequences of prenatal exposure to alcohol, stimulants, cannabis, opioids, and nicotine. More recently, I have focused on the sex-specific genetic architecture of tobacco, alcohol, and opioid use, as well as externalizing behaviors, across diverse populations using data from 23andMe, UK Biobank, All of Us, Adolescent Brain Cognitive Development (ABCD) study, Collaborative Studies on the Genetics of Alcoholism (COGA), and healthcare system biobanks.

Currently, my research aims to identify genetic and biological mechanisms underlying maternal substance use and its impact on maternal and child morbidity across multi-ancestry cohorts. Over the next decade, I aim to refine our understanding of genetic liability for substance use disorders, particularly in perinatal and adolescent populations, to inform prevention and intervention strategies that improve health outcomes.

## Education

- 2016-2020    **Ph.D.**, Interdisciplinary Research on Substance Use, University of California, San Diego. Advisor: Carla Marienfeld, MD
- 2013-2015    **M.P.H.**, Health Promotion/Epidemiology, San Diego State University. Advisor: Hala Madanat, PhD
- 2006-2011    **B.A.**, Anthropology, University of Hawai'i at Mānoa

## Positions and Scientific Appointments

- 2024-Current    **Member**, Healthy Brain & Child Development Study Genetics Workgroup
- 2024-Current    **Member**, Healthy Brain & Child Development Study Biospecimens and Omics Workgroup
- 2024-Current    **Member**, Healthy Brain & Child Development Study Pregnancy and Exposure, Including Substance Use Workgroup
- 2024-Current    **Co-Investigator**, Healthy Brain & Child Development National Consortium. University of California, San Diego
- 2023-Current    **Assistant Professor**, Psychiatric genetic research, Department of Psychiatry, University of California, San Diego
- 2022-Current    **Analyst/Member**, International Externalizing Consortium

2022-2023 **Postdoctoral Researcher**, PI: Dr. Sandra Sanchez-Roige, Psychiatric genetic research, Department of Psychiatry, University of California, San Diego

2022-2023 **Postdoctoral Fellow**, PI: Mariana Cherner, Psychiatric genetic research, Interdisciplinary Research Fellowship in NeuroAIDS, National Institute of Mental Health (NIMH), University of California, San Diego

2020-2022 **Postdoctoral Fellow**, PI: Dr. Sarah Mattson, Prenatal alcohol exposure and child neurodevelopment research, Department of Psychology, San Diego State University

2020-2021 **Co-Founder/Operations Officer**, Interdisciplinary Research on Substance Use (IRSU) Graduate Student Council, University of California, San Diego

2017-2020 **Project Manager/Data Analyst**, PI: Dr. Carla Marienfeld, Addiction, Recovery, and Treatment Program, Department of Psychiatry, University of California, San Diego

2016-2017 **Research Associate**, PIs: Drs. Susan Woodruff/Mark Reed, Alcohol intoxication research, School of Social Work, San Diego State University

2015-2016 **Clinical Research Coordinator**, PI: Dr. Anne Wallace, Breast oncology research, Moores Cancer Center, University of California, San Diego

2014-2015 **Staff Research Associate**, PI: Dr. Santosh Kesari, Neuro oncology research, Moores Cancer Center, University of California, San Diego

2013-2015 **Interviewer/Data Management Team**, PI: Dr. Richard Garfein, Injection drug use and HIV, TB, HCV risk research, Family Medicine and Public Health, University of California, San Diego

2010-2011 **Indigenous Health Mentee**, John A. Burns School of Medicine, PI: Dr. Walter Patrick, Global health research, University of Hawai'i at Mānoa

## Grants and Awards

2024-2026 **Co-Investigator**, Healthy Brain & Child Development National Consortium U01 study. University of California, San Diego.

2023-2026 **New Investigator Award**, Tobacco-Related Disease Research Program (TRDRP), Department of Psychiatry, University of California, San Diego.

2023-2025 **Loan Repayment Program (LRP)**, Pediatric Research, National Institute on Alcohol Abuse and Alcoholism (NIAAA), University of California, San Diego.

2024-2024 **Research Training Award**, Frontiers in Substance Abuse During Pregnancy, Postpartum, & Pediatrics, National Institutes of Health (NIH)/National Institute on Drug Abuse (NIDA), La Jolla, California.

2022-2023 **Postdoctoral Fellowship Award**, Interdisciplinary Research Fellowship in NeuroAIDS, National Institute of Mental Health (NIMH), University of California, San Diego.

2022-2022 **Early Investigator Award**, International Society of Psychiatric Genetics (ISPG), 2022 World Congress of Psychiatric Genetics (WCPG) in Florence, Italy.

2022-2022 **Junior Investigator Award**, Research Society on Alcoholism (RSA), 45th Annual RSA Scientific meeting in Orlando, Florida.

2021-2021 **Junior Investigator Award**, Research Society on Alcoholism (RSA), Annual RSA Scientific virtual meeting.

2020-2022 **Postdoctoral T32 Training Grant Fellowship Award**, National Institutional Ruth L. Kirschstein National Research Service Award (NRSA) funded by the National Institute on Alcohol Abuse and Alcoholism (NIAAA), San Diego State University.

- 2020-2020 **Research Training Award**, Frontiers in Addiction Research and Pregnancy, National Institutes of Health (NIH)/National Institute on Drug Abuse (NIDA), San Diego, California
- 2017-2017 **Graduate Student Travel Fund – Student Success Fee**, San Diego State University.

### Research Committees and University Service

- 2025-Current **Grant Reviewer**, San Diego Center for AIDS Research (SD CFAR)
- 2024-Current **Reviewer/Voting Member**, Institutional Review Board (IRB)- Neuroscience, University of California San Diego
- 2023-Current **Member**, Department of Psychiatry Basic Science Group
- 2022-Current **Member**, International Society of Psychiatric Genetics (ISPG)
- 2022-Current **Analyst/Member**, The International Externalizing Consortium
- 2021-Current **Member**, PsycheMERGE (electronic MEDical Record and GENomics) Network
- 2020-Current **Member**, College on Problems of Drug Dependence (CPDD)
- 2020-Current **Member**, Fetal Alcohol Spectrum Disorder Study Group (FASDSG)
- 2020-Current **Member**, Research Society on Alcoholism (RSA)
- 2018-Current **Member**, Center for Addiction Science and Treatment (CeFAST), UC San Diego. Formally known as the Addiction Special Interest Group (AISG)
- 2020-2022 **Reviewer/Voting Member**, Institutional Review Board (IRB), San Diego State University
- 2020-2021 **Co-Founder and Operations Officer**, (2020-Present), Interdisciplinary Research on Substance Use (IRSU) Graduate Student Council, University of California, San Diego/San Diego State University

### Teaching and Lecture Experience

- 2025 **Invited Speaker**, *The impact of substance use on women and pregnancy*, Addiction Psychiatry Fellowship Didactics, University of California, San Diego, March 13, 2025.
- 2024 **Invited Speaker**, *Genetic testing for substance use disorder: Ethical considerations for health policy*. Joint Doctoral Program in Interdisciplinary Research on Substance Use, Policy Seminar on U.S.-Mexico Border Health with Emphasis on Substance Use (SW 702), University of California, San Diego/San Diego State University, April 8, 2024.
- 2024 **Invited Speaker**, *Women, pregnancy, and substance use*, Addiction Psychiatry Fellowship Didactics, University of California, San Diego, March 1, 2024.
- 2024 **Invited Speaker**, *Sex-stratified phenome-wide association studies of polygenic liability for externalizing reveal associations with substance use, mental health, disease, and numerous other medical outcomes*. HIV & Substance Use seminar, University of California, San Diego, February 29, 2024.
- 2024 **Invited Speaker**, *Sex-stratified phenome-wide association studies of polygenic liability for externalizing reveal associations with substance use, mental health, disease, and numerous other medical outcomes*. Center For Addiction Science and Treatment (CeFAST), University of California, San Diego, January 12, 2024.
- 2023 **Invited Speaker**, *The impact of substance use on women, pregnancy, and child neuropsychological functioning*. Joint Doctoral Program in Interdisciplinary Research on Substance Use, Global Approaches to Substance Use Prevention and Treatment course (SW 801), University of California, San Diego/San Diego State University, October 30, 2023.
- 2023 **Invited Speaker**, *Phenome-wide association study of polygenic liability for externalizing reveals sex-specific associations with substance use, infectious disease, and numerous other medical outcomes*, Externalizing Consortium Steering Committee Meeting, July 12, 2023.

- 2023 **Invited Speaker**, *The impact of substance use on women, pregnancy, and child neuropsychological functioning*. Department of Psychiatry Markou Seminar, University of California, San Diego, October 3, 2023.
- 2022 **Invited Speaker**, *Substance use in pregnancy: Epidemiology and basic clinical management*. Joint Doctoral Program in Interdisciplinary Research on Substance Use, Global Approaches to Substance Use Prevention and Treatment course (SW 801), University of California, San Diego/San Diego State University, October 31, 2022.
- 2022 **Invited Speaker**, *Women, pregnancy, and substance use*, Addiction Psychiatry Fellowship Didactics, University of California, San Diego, October 5, 2022.
- 2022 **Invited Speaker**, *Capstone students: Preparing for the workforce*, Public Health Capstone course (FMPH 194), University of California, San Diego, April 20, 2022.
- 2022 **Invited Speaker**, *Substance-related diagnoses in pregnancy*, Addiction Psychiatry Fellowship Program, University of California, San Diego, January 19, 2022.
- 2021 **Invited Speaker**, *Substance-related diagnoses in pregnancy*: Addiction Psychiatry Fellowship Program, University of California, San Diego, January 12, 2021.
- 2021 **Invited Speaker**, *Substance use in pregnancy: Epidemiology and basic clinical management*. Joint Doctoral Program in Interdisciplinary Research on Substance Use, Global Approaches to Substance Use Prevention and Treatment course (SW 801), University of California, San Diego/San Diego State University, November 1, 2021.
- 2020 **Invited Speaker**, *Correlates of substance use and delivery outcomes among pregnant women in a large healthcare system*. Addiction Special Interest Group, University of California, San Diego, July 27, 2020.
- 2020 **Invited Speaker**, *Epidemiology and Bayesian Applications*, Kinesiology Biomechanics Research Methods course (KIN 6005), Point Loma Nazarene University, November 11, 2020.
- 2020 **Instructor of Record**, *Course: Seminar in Research Methods for Social Work* (upper level undergraduate SWORK-391), San Diego State University. Fall 2020.
- 2019 **Teacher Assistant/Lecturer**, *Course: Seminar in Research Methods for Social Work* (master level SWORK-690), San Diego State University. Spring 2019.
- 2018 **Invited Speaker**, *Substance use disorder in pregnancy: Epidemiology and basic clinical management*. Mother to Baby: Epidemiology Methods Group, May 17th, 2018.

### Supervising and Mentoring Activities

- 2024-Current **Research Adviser Kate Johnson**, Graduate Student, Biostatistics, University of California San Diego, Graduation June 2026.
- 2024-Current **Research Adviser: Lingson Tian**, Graduate Student, Biostatistics, University of California San Diego, Graduation June 2026.
- 2024-Current **Research Adviser: Elaina Manglona**, Undergraduate Student, Bioinformatics, University of California San Diego, Graduation June 2028.
- 2024-Current **Research Adviser: Nya Coley**, Undergraduate Student, Psychology/Clinical Psychology, University of California San Diego, Graduation June 2026.
- 2024-Current **Research Adviser: Zachary Perry**, Undergraduate Student, Computer Science, University of California San Diego, Graduation June 2025.
- 2024-Current **Research Adviser: Ishvari Desai**, Undergraduate Student, Bioinformatics/Computer Science, University of California San Diego, Graduation June 2025.
- 2024-Current **Research Adviser: Myungjoo “Zoe” Kim**, Undergraduate Student, Biology/Bioinformatics, University of California San Diego, Graduation June 2025.

- 2024-Current **Research Adviser: Tanya Jaine**, Medical Student, Medical Student Independent Study Project, University of California, San Diego School of Medicine.
- 2024-2025 **Research Adviser: Anirudh Chandrasekaran**, Undergraduate Student, Molecular and Cell Biology, University of California San Diego, Graduation 2024
- 2023-2024 **Research Adviser: Daniel Zoleikhaeian, MS**, Graduate Student, Biostatistics, University of California San Diego, Graduation 2024.
- 2022-2023 **Research Adviser: Chloe Sobolewski**, Undergraduate Student, Minority Biomedical Research Support Initiative for Maximizing Student Development (IMSD), San Diego State University, Graduation 2022.
- 2021-2023 **Research Adviser: Wayne Kepner, PhD, MPH**, Graduate Student, Interdisciplinary Research on Substance Use, University of California, San Diego, Graduation 2024.
- 2021-2022 **Research Adviser: Mallory M. Cless, MD**, Medical Student, Medical Student Independent Study Project, University of California, San Diego School of Medicine, Graduation 2023.

### Professional Development

- 2024 **Attendee**, Forefronts in Substance Abuse During Pregnancy, Postpartum, & Pediatrics, National Institutes of Health (NIH)/National Institute on Drug Abuse (NIDA), La Jolla, California, March 3-8, 2024.
- 2023 **Attendee**, 2023 How to Succeed at the University of California San Diego Course, October 26, 2023.
- 2022 **Attendee**, 2022 NIDA Virtual Genetic and Epigenetic Cross-Cutting Research Team (GECRT) Meeting, NIDA, NIAAA, NIMH, April 27, May 4th, May 11th, 2022.
- 2022 **Attendee**, Genetics of Addiction Short Course, The Jackson Laboratory. February 21- March 9, 2022.
- 2022 **Attendee**, Genetic Epidemiology Foundations, University of Colorado Denver in collaboration with the Vanderbilt Genetics Institute at Vanderbilt University Medical Center and the International Genetic Epidemiology Society. January 1-February 1, 2022.
- 2020 **Research Trainee**, Frontiers in Addiction Research and Pregnancy: Pharmacology, pharmacokinetics, neural mechanisms mediating sex differences National Institutes of Health (NIH)/National Institute on Drug Abuse (NIDA). January 12-18, 2020.

### Editorial Service

- 2024-Current **Reviewer**, Journal of Women's Health
- 2022-Current **Reviewer**, The Journal of Pediatrics
- 2021-Current **Reviewer**, Drug and Alcohol Reports
- 2021-Current **Reviewer**, Alcoholism: Clinical and Experimental Research
- 2019-Current **Reviewer**, Biological Psychiatry
- 2019-Current **Reviewer**, Academic Psychiatry
- 2018-Current **Reviewer**, Substance Use and Misuse
- 2017-Current **Reviewer**, Drug and Alcohol Dependence

**Peer Reviewed Publications (19; 6 as first author) \*denotes shared first author**

1. Kepner, W., **Courchesne-Krak, N.S.**, Satybaldiyeva, N., Narasimhan, R., & Marienfeld, C. B. (2024). Emergency care utilization in persons with substance related diagnoses. Addictive Behaviors Reports, 20, 100573.
2. \*Jennings, M.V., \*Martínez-Magaña, J.J., \***Courchesne-Krak, N.S.**, \*Cupertino, R., Bianchi, S.B., Fontanillas, P., Palmer, A., Sanchez-Roige, S. (2024). Phenome-wide association studies of alcohol variants in a multi-ancestral cohort comprising up to 3 million individuals. Lancet eBiomedicine. Under production.
3. Tanksley, P.T., Brislin, S.J., Wertz, J., Vlaming, R., **Courchesne-Krak, N.S.**, Mallard, T., Raffington, L., Linner, R.K., Koellinger, P.D., Palmer, A.A., Sanchez-Roige, S., Waldman, I.D., Dick, D., Moffitt, T.E., Caspi, A., Harden, K.P. (2024). Do polygenic indices capture “direct” effects on child externalizing behavior? Within-family analyses in two longitudinal birth cohorts. Clinical Psychological Science. 21677026241260260.
4. Sobolewski, C.M., **Courchesne-Krak, N.S.**, Hyland, M.T., Bernes, G.A., Veziris, C.R., Wozniak, J.R., Mattson, S.N., & the CIFASD (2024). Adaptive, Externalizing, and Internalizing Behavior of Children with Prenatal Alcohol Exposure: A Comparison of Three Parent-Report Questionnaires. Developmental Neuropsychology, 1-11.
5. Thorpe, H.A., Pham, B., Jennings, M.V., **Courchesne-Krak N.S.**, Meredith, J., Bianchi, S.B., Elson, S.L., the 23andMe Research Team, Fontanillas, P., Palmer, A.A., Sanchez-Roige, S. (2024). Genome-wide association studies of coffee intake in UK/US participants of European ancestry uncover cohort-specific genetic associations. Neuropsychopharmacology, 1-10.
6. Williams, C.M., Poore, H., Tanksley, P.T., Kweon, H., **Courchesne-Krak, N.S.**, LondonoCorrea, D., Mallard, T.T., Barr, P., Koellinger, P.D., Waldman, I.D., Sanchez-Roige, S., Harden, K.P., Palmer, A.A., Dick, D.M., Linner, R.K. (2023). Guidelines for Evaluating the Comparability of Down-Sampled GWAS Summary Statistics. Behavior Genetics. 53(5-6): 404-415.
7. Cless, M. M., **Courchesne-Krak, N.S.**, Bhatt, K. V., Mittal, M. L., & Marienfeld, C. (2023). Craving among patients seeking treatment for substance use disorder. Discover Mental Health. 3(1), 23.
8. **Courchesne-Krak, N.S.**, Marienfeld, C., Kepner, W. (2023). What Brings You in Today? Sex, Race, Substance Type, and Other Sociodemographic and Health-Related Characteristics Predict if Substance Use is the Main Reason for a Clinical Encounter. Yale Journal of Biology and Medicine. 96 (1).
9. Hyland, M.T., **Courchesne-Krak, N.S.**, Bernes, G.A., Wozniak, J.R., Jones, K.L., Del Campo, M., Riley, E. P., Mattson, S.N., & the CIFASD (2023). Results of an FASD screening tool are associated with neuropsychological and behavioral measures. Alcoholism: Clinical and Experimental Research. 47(8), 1560-1569.
10. Mattson, S.N., Jones, K.L., Chockalingam, G., Wozniak, J.R., Hyland, M.T., **Courchesne-Krak, N.S.**, Hyland, Del Campo, M., Riley, E. P., and the CIFASD (2022). Validation of the FASD-Tree as a Screening Tool for Fetal Alcohol Spectrum Disorders. Alcoholism: Clinical and Experimental Research. 47(2), 263-272.
11. **Courchesne-Krak, N.S.**, Zúñiga, M.L., Smith, L.R., Chambers, C.D., Reed, M. B., Ballas, J., Marienfeld, C. (2022). Substance use type predicts the likelihood of a preterm and cesarean delivery. Journal of Addictive Diseases. 41(2), 137-148.
12. Asheh, A., **Courchesne-Krak, N.S.**, Kepner, W., Marienfeld, C. (2022). Adverse childhood experiences are associated with history of overdose among patients presenting for outpatient addiction care. Journal of Addiction Medicine. 10-1097.

13. **Courchesne-Krak, N.S.**, Kepner, W., Rubano, A., Marienfeld, C., (2022). Differences in outpatient, emergency, and inpatient use among pregnant women with a substance-related diagnosis. American Journal of Obstetrics and Gynecology- Maternal Fetal Medicine. 4(2), 100559.
14. Bernes, G.A., **Courchesne, N.S.**, Hyland, M.T., Villodas, M.T., Coles, C.D., Kable, J.A., May, P.A., Kalberg, W.O., Sowell, E.R., Wozniak, J.R., Jones, K.L., Riley, E.P., Mattson, S.N. & the CIFASD. (2022). Development and validation of a postnatal risk score that identifies children with prenatal alcohol exposure. Alcoholism: Clinical and Experimental Research. 46(1), 52-65.
15. **Courchesne, N.S.**, Smith, L.R., Zúñiga, M.L., Chambers, C.D., Reed, M.B., Ballas, J., Marienfeld, C. (2021). Correlates of alcohol and other substance use and severe maternal morbidity. Alcoholism: Clinical and Experimental Research. 45(9), 1829-1839.
16. Meyers, S.A., Earnshaw, V., D'Ambrosio, B., **Courchesne, N.S.**, Werb, D., & Smith, L.R. (2021). The intersection of gender and substance use-related stigma: A mixed methods systematic review and synthesis of the literature. Drugs and Alcohol Dependence, 223,108706.
17. **Courchesne, N.S.**, Muth, C., Barker, M., & Woodruff, S.I. (2019). Correlates of Breath Alcohol Concentration Among Driving Under the Influence Program Clients in Southern California. Journal of Drug Issues, 49(2), 279-295.
18. Saria, M., **Courchesne, N.S.**, Evangelista, L., Carter, J., MacManus, D., Gorman, M., Nyamathi, A., Phillips, L., Piccioni, D., Kesari, S., Maliski, S. (2017). Anxiety and Depression Associated with Burden in Caregivers of Patients with Brain Metastases. Oncology Nursing Forum, 44(3), 306.
19. Saria, M., **Courchesne, N.S.**, Evangelista, L., Carter, J., MacManus, D., Gorman, M., Nyamathi, A., Phillips, L., Piccioni, D., Kesari, S., Maliski, S. (2016). Cognitive Dysfunction in Patients with Brain Metastases: Influences on Caregiver Resilience and Coping. Supportive Care in Cancer, 25(4), 1247-1256.

### Book Chapters (3; 2 as first author)

1. **Courchesne-Krak, N.S.**, Meyers, S., (2025) Chapter 16: Women and pregnancy. In Marienfeld, C., (Eds.), Absolute Addiction Psychiatry Review: An Essential Board Exam Study Guide. Springer Nature.
2. Hyland, M.T., **Courchesne-Krak, N.S.**, Sobolewski, C.M., Zambrano, B.A., Mattson, S.N. (2023). Neuropsychological Outcomes in FASD Across the Lifespan. In Fetal Alcohol Spectrum Disorders: A Multidisciplinary Approach (pp. 221-240). Cham: Springer International Publishing.
3. **Courchesne, N.S.**, Meyers, S., (2020) Chapter 16: Women and pregnancy. In Marienfeld, C., (Eds.), Absolute Addiction Psychiatry Review: An Essential Board Exam Study Guide. Springer Nature.

### Preprint Manuscripts (4)

1. Thorpe, H. H., Fontanillas, P., Pham, B., Meredith, J. J., Jennings, M. V., **Courchesne-Krak, N. S.**, ... & Sanchez-Roige, S. (2023). Genome-Wide Association Studies of Coffee Intake in UK/US Participants of European Ancestry Uncover Gene-Cohort Influences. medRxiv, 2023-09.
2. Tanksley, P.T., Brislin, S.J., Wertz, J., de Vlaming, R., **Courchesne-Krak, N.S.**, Mallard, T.T., Raffington, L.T., Karlsson Linner, R., Koellinger, P., Palmer, A. and Sanchez-Roige, A., (2023). Do polygenic indices capture 'direct' effects on child externalizing behavior? Within-family analyses in two longitudinal birth cohorts. medRxiv, 2023-05.

- Williams, C.M., Poore, H., Tanksley, P.T., Kweon, H., **Courchesne-Krak, N.S.**, LondonoCorrea, D., Mallard, T.T., Barr, P., Koellinger, P.D., Waldman, I.D., Sanchez-Roige, S., Harden, K.P., Palmer, A.A., Dick, D.M., Linner, R.K. (2023). Guidelines for Evaluating the Comparability of Down-Sampled GWAS Summary Statistics. *bioRxiv*, 2023-03.
- Cless, M. M., **Courchesne-Krak, N. S.**, Bhatt, K. V., Marienfeld, C., & Mittal, M. L. (2022). Clinical correlates of craving among patients seeking treatment for substance use disorder. Research-Square. 2022-1.

#### Manuscripts Under Review (1; \*Denotes shared first author)

- Courchesne-Krak, N.S.**, Chandrasekaran, A., Gonzalez, J., Bianchi, S., Tran, V., Johnson, E. O., Troiani, V., Hettema, J. M., Stein, M., Coon, H., Docherty, A., Berretini, W., MacKillop, J., de Wit, H., Marienfeld, C., Palmer, A. A., & Sanchez-Roige, S. (2025). Prescription Opioid Medication Survey: A tool to collect deep phenotypic data on the multifactorial pathways to opioid use disorder in clinical and population-based cohorts. *Complex Psychiatry*.

#### In Preparation (5; 2 as first author)

- Johnson, K., Meredith, J., Brislin, S., Williams, C.M., Barr, P.B., Mallard, T.T., Waldman, I., Davis, L.K., Palmer, A.A., Dick, D.M., Sanchez-Roige, S., **Courchesne-Krak, N.S.** (2025), Genetic, psychological, and environmental predictors of smoking by sex and over time in the Adolescent Brain Cognitive Development (ABCD) Study. Target Journal: Psychological Medicine.
- Courchesne-Krak, N.S.**, Singh, K., Lake, A., Jennings, M.V., Meredith, J., Williams, C.M., Palmer, A.A., Dick, D.M., Barr, P.B., Mallard, T.T., Waldman, I., Davis, L.K., Sanchez-Roige, S. (2025), A phenome-wide association study of polygenic liability for externalizing in a European cohort reveals sex- and age-differentiated associations with numerous medical outcomes. Target Journal: Translation Psychiatry.
- Dennis, J., Sowards, H.A., Thorpe, H.A., **Courchesne-Krak, N.S.**, Johnson, E.C., Makowski, C., Chen, C.H., Dunn, E.C., Choi, K.W., Doyle, A.E., Davis, L.K., Gandal, M., Agrawal, A., Sanchez-Roige, S. (2024) Enabling a lifecourse view of psychiatric genetics. Invited perspective at Nature Aging.
- Courchesne-Krak, N.S.**, Hyland, M.T., Bernes, G.A., Wozniak, J.R., Jones, K.L., Del Campo, M., Boys, C.J., Mattson, S.N. and the CIFASD (2025). The impact of co-occurring alcohol and other drug exposure on child neuropsychological functioning. Target Journal: Neurotoxicology and Teratology.
- Felicicchia, R.J., **Courchesne-Krak, N.S.**, Hyland, M.T., Coles, C.D., Kable, J.A., Sowell, E.R., Wozniak, J.R., Mattson, S.N., & the CIFASD (2025). Parent-reported behavioral concerns moderate the relationship between prenatal alcohol exposure and cognitive and behavioral functioning in children. Journal TBD.

#### Posters at Professional Meetings (15; 7 as first author)

- Palmer, A.A., Gonzalez, J., **Courchesne-Krak, N.S.**, Meredith, J., Vilar-Ribo, L., Penchala, R., Xu, I., Chandrasekaran, A., Venkatesh, V., Ramos, Y., The 23andMe Team, Sanchez-Roige, S. Study of the subjective effects of prescription opioids in half a million people. Poster presentation at the Society for Neuroscience 2024 Scientific Meeting. October 2024.
- Courchesne-Krak, N.S.**, Singh, K., Lake, A., Jennings, M.V., Meredith, J., Williams, C.M., Mallard, T. T., Barr, P.B., Waldman, I., Palmer, A.A., Dick, D. M., Davis, L.K., Sanchez-Roige,



- S., A phenome wide-association study of polygenic liability for externalizing in a European cohort reveals sex-specific associations with numerous medical outcomes. Poster presentation at the International Society of Psychiatric Genetics (ISPG)'s 2023 World Congress of Psychiatric Genetics (WCPG). October 2023.
3. **Courchesne-Krak, N.S.**, Jennings, M.V., Martínez-Magaña, J.J., Bianchi, S.B., 23andMe, Inc. Research Team, Elson, S.L., Fontanillas, P., Palmer, A.A., Sanchez-Roige, S. Phenome-wide association studies of alcohol variants in a multi-ancestral cohort comprising up to 3 million individuals. Poster presentation at the International Society of Psychiatric Genetics (ISPG)'s 2022 World Congress of Psychiatric Genetics (WCPG). September 2022.
  4. **Courchesne-Krak, N.S.**, Felicicchia, R.J., Hyland, M.T., Coles, C.D., Kable, J.A., Sowell, E.R., Wozniak, J.R., Mattson, S.N., & the CIFASD. Do parent-reported behavioral concerns moderate the relationship between prenatal alcohol exposure and cognitive and behavioral functioning in children? Poster presentation at the Research Society on Alcoholism Annual Scientific Meeting. June 2022.
  5. Felicicchia, R.J., **Courchesne-Krak, N.S.**, Hyland, M.T., Coles, C.D., Kable, J.A., Sowell, E.R., Wozniak, J.R., Mattson, S.N., & the CIFASD. Do family risk factors moderate the relationship between parental alcohol exposure and cognitive and behavioral functioning in children? Poster presentation at the Research Society on Alcoholism Annual Scientific Meeting. June 2022.
  6. Asheh, A., **Courchesne-Krak, N.S.**, Marienfeld, C. Adverse Childhood Experiences are Associated with Overdose History in Outpatient SUD Care. Poster presentation at the American Society of Addiction Medicine 2022 meeting. April 2022.
  7. Sobolewski, C.M., **Courchesne, N.S.**, Hyland, M.T., Bernes, G.A., Jahan, T., Mattson, S.N., & the CIFASD. Externalizing but not Internalizing Behavior Ratings of Youth with Prenatal Alcohol Exposure Vary Based on the Rater's Relationship to the Subject. Poster presentation at the Society for Advancement of Chicanos/Hispanics and Native Americans in Science National Diversity in STEM (NDiSTEM) Conference. October 2021.
  8. **Courchesne, N.S.**, Hyland, M.T., Bernes, G.A., Krueger, A.M., Rockhold, M.N., Wozniak, Jones, K.L., Del Campo, M., Boys, C.J., Mattson, S.N. & the CIFASD. The impact of cooccurring alcohol and other drug exposure on child neuropsychological functioning. Poster presentation at the Research Society on Alcoholism Annual Scientific Meeting. June 2021.
  9. Hyland, M.T., **Courchesne, N.S.**, Bernes, G.A., Krueger, A.M., Rockhold, M.N., Wozniak, Jones, K.L., Del Campo, M., Boys, C.J., Riley, E.P., Mattson, S.N. & the CIFASD. Validation of an automated decision tree tool for detecting FASD using neuropsychological data. Poster presentation at the Research Society on Alcoholism Annual Scientific Meeting. June 2021.
  10. Sobolewski, C.M., **Courchesne, N.S.**, Hyland, M.T., Bernes, G.A., Krueger, A.M., Rockhold, M.N., Wozniak, Jones, K.L., Del Campo, M., Boys, C.J., Mattson, S.N. & the CIFASD. Adaptive, internalizing, and externalizing behavior of children with prenatal alcohol exposure: A comparison of three parent-report questionnaires. Poster presentation at the Research Society on Alcoholism Annual Scientific Meeting. June 2021.
  11. **Courchesne, N.S.**, Marienfeld, C., Kepner, W., A substance-related diagnosis impacts healthcare service utilization among pregnant women. Poster presentation at the American Society of Addiction Medicine Virtual 2021 meeting. April 2021.
  12. Sobolewski, C.M., **Courchesne, N.S.**, Hyland, M.T., Bernes, G.A., Mattson, S.N. Differences in behavior based on IQ and prenatal alcohol exposure. Poster presentation at the Western Psychological Association Annual Convention. April 2021.

13. **Courchesne, N.S.**, Muth, C., Barker, M., Woodruff, S. Identifying Predictors of High Breath Alcohol Concentration (BrAC) among those in a DUI Program. Poster Presentation at the College of Problem on Drug Dependence Annual Meeting. San Diego, CA. June 2018.
14. **Courchesne, N.S.**, Reed, M., Clapp, J., Rossheim, M., Ruderman, D. The relationship between self-perceptions of alcohol intoxication and breath alcohol concentration (BrAC). Poster Presentation at the American Academy of Health Behavior 17th Annual Scientific Meeting. Tucson, AZ. March 2017.
15. Higgins, M., **Courchesne, N.S.**, Implementing Bedside Reporting. Poster presentation at the American Academy of Ambulatory Care Nursing 41st Annual Conference. Palm Springs, CA. May 2016.