

Arianna M. Gard - Curriculum Vitae

University of Maryland Biology-Psychology Building, 4094 Campus Drive, College Park, MD 20742
arigard@umd.edu

EDUCATION

- 2013 – 2019 PhD Developmental Psychology, University of Michigan
- 2006 – 2010 BA Psychology, Minor in Anthropology, University of California, Los Angeles

PROFESSIONAL APPOINTMENTS / EMPLOYMENT

- 2020 – Assistant Professor, Department of Psychology
 Primary: Developmental; Affiliate: Clinical
 Faculty Affiliate, Program in Neuroscience and Cognitive Neuroscience
 Faculty Affiliate, Social Data Science Center
 Faculty Affiliate, Maryland Population Research Center
 University of Maryland, College Park
- 2019 – 2020 Postdoctoral Fellow, Population Studies Center, University of Michigan
 NICHD T32 Trainee

PUBLICATIONS

Refereed Journal Articles

- [28] **Gard, A. M.** (2023). Advancing neighborhood research through innovations in method and theory. [Peer commentary on the article “Place Based Developmental Research: Conceptual and Methodological Advances in Studying Youth Development in Context” by D. P. Witherspoon, R. M. B. White, et al.]. *Monograph Matters*.
<https://monographmatters.srce.org/2023/11/13/commentary-gard-88-3/>
- [27] **Suarez, G. L., Burt, S. A., Gard, A. M., Klump, K. L., & Hyde, L.W.** (in press). Exposure to Community Violence as a Mechanism Linking Neighborhood Disadvantage to Amygdala Reactivity and the Protective Role of Parental Nurturance. *Developmental Psychology*.
- [26] **Gard, A. M., Hyde, L. W., Heeringa, S. G., West, B. W., & Mitchell, C.** (2023). Why weight: Analytic approaches to using large population neuroscience data. *Developmental Cognitive Neuroscience*. <https://doi.org/10.1016/j.dcn.2023.101196>
- [25] **Sripada, C., Gard, A. M., Angstadt, M., Taxali, A. D., Greathouse, T., McCurry, K., Hyde, L. W., Weigard, A., Walczyk, P., & Heitzeg, M.** (2022). Socioeconomic resources are associated with distributed alterations of the brain’s intrinsic functional architecture in youth. *Developmental Cognitive Neuroscience*, 58.
<https://doi.org/10.1016/j.dcn.2022.101164>
- [24] **Gard, A. M., Brooks-Gunn, J., McLanahan, S., Mitchell, C., Monk, C. S., & Hyde, L. W.** (2022). Deadly gun violence, neighborhood collective efficacy, and adolescent neurobehavioral outcomes. *PNAS Nexus*, 1(3),
<https://doi.org/10.1093/pnasnexus/pgac061>; code available at: 10.31234/osf.io/k37rf
- [23] **Roberts, A. G., Peckins, M. K., Gard, A. M., Hein, T. C., Hardi, F. A., Mitchell, C., ... & Lopez-Duran, N. L.** (2022). Amygdala reactivity during socioemotional processing and cortisol reactivity to a psychosocial stressor. *Psychoneuroendocrinology*, 144, 105855.
- [22] **Hyde, L. W.*, Gard, A. M.*, Tomlinson, R., Suarez, G. L., & Westerman, H.** (2022). Parents, Neighborhoods, and the Developing Brain. *Child Development Perspectives*, 16(3), 148-156. [*shared first author]; <https://doi.org/10.1111/cdep.12453>
- [21] **Suarez, G. L., Burt, S. A., Gard, A. M., Klump, K. L., & Hyde, L.W.** (2022). The Impact

- of Neighborhood Disadvantage on Amygdala Reactivity: Pathways Through Neighborhood Social Processes. *Developmental Cognitive Neuroscience*, 54. <https://doi.org/10.1016/j.dcn.2022.101061>. Registered Report.
- [20] Sripada, C., Angstadt, M., Taxali, A. D., Clark, A., Greathouse, T., Rutherford, S., Dickens, J., Sheddon, K., **Gard, A.**, Hyde, L. W., Weigard, A., Heitzeg, M. (2021). Brain-wide functional connectivity patterns support general cognitive ability and mediate effects of socioeconomic status in youth. *Molecular Psychiatry*, 11(571). <https://doi.org/10.1038/s41398-021-01704-0>
- [19] Bakulski, K. M., Fisher, J., Dou, J. F., **Gard, A. M.**, Schneper, L., Notterman, D. A., Ware, E. B., & Mitchell, C. (2021). Prenatal particulate matter exposure is associated with childhood saliva DNA methylation. *Toxics*, 9, 262. <https://doi.org/10.3390/toxics9100262>
- [18] Brislin, S.J., Martz, M.E., Joshi, S., Duval, E.R., **Gard, A.**, Clark, D.A., Hyde, L.W., Hicks, B.M., Taxali, A., Angstadt, M., Rutherford, S., Heitzeg, M.M., Sripada, C. (2021). Differentiated Nomological Networks of Internalizing, Externalizing, and the General Factor of Psychopathology (“P factor”) in Emerging Adolescence in the ABCD Study. *Psychological Medicine*. <https://doi.org/10.31234/osf.io/d6htz>
- [17] **Gard, A. M.**, Ware, E. B., Hyde, L. W., Schmitz, L., Faul, J., & Mitchell, C. (2021). Phenotypic and Genetic Markers of Psychopathology in a Population-Based Sample of Older Adults. *Translational Psychiatry*, 11(239), <https://doi.org/10.1038/s41398-021-01354-2>
- [16] **Gard, A. M.** (2021). Childhood Maltreatment Alters Normative Changes in Whole-Brain Resting-State Connectivity. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 6(3), 253 – 255. <https://doi.org/10.1016/j.bpsc.2020.12.008>
- [15] **Gard, A. M.**, Hein, T. C., Mitchell, C., Brooks-Gunn, J., McLanahan, S., Monk, C. S., & Hyde, L.W. (2022). Prospective longitudinal effects of harsh parenting on corticolimbic function during adolescence. *Development and Psychopathology*, 34(3), 981 – 986.
- [14] **Gard, A. M.**, Maxwell, A. M., Shaw, D. S., McLanahan, S., Brooks-Gunn, J., Mitchell, C., Forbes, E. E., Monk, C. S., & Hyde, L. W. (2021). Beyond family-level adversities: Assessing the developmental timing of neighborhood disadvantage effects on the brain. *Developmental Science*, 24(1), <https://doi.org/10.1111/desc.12985>
- [13] Hyde, L.W.*, **Gard, A.M.***, Tomlinson, R.C., Burt, S.A., Mitchell, C., & Monk, C.S. (2020) An ecological approach to understanding the developing brain: Examples linking poverty, parenting, neighborhoods, and the brain. *American Psychologist*, 75(9), 1245–1259. <https://doi.org/10.1037/amp0000741> [*shared first author]
- [12] **Gard, A. M.**, McLoyd, V. M., Mitchell, C., & Hyde, L. W. (2020). A longitudinal test of the Family Stress Model in the Fragile Families and Child Wellbeing Study. *Social Development*, 29(4), 1155-1175. <https://doi.org/10.1111/sode.12446>
- [11] **Gard, A. M.**, Dotterer, H. L., & Hyde, L. W. (2019). Genetic influences on antisocial behavior: Recent advances and future directions. *Current Opinion in Psychology*, 27. <https://doi.org/10.1016/j.copsyc.2018.07.013>
- [10] Schmitz, L., **Gard, A. M.**, & Ware, E. B. (2019). Genetic contributions to gender differences in smoking behavior and internalizing psychopathology. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*, 180B:448–468. <https://doi.org/10.1002/ajmg.b.32748>
- [9] Waller, R., **Gard, A. M.**, Monk, C. S., Mitchell C., Bazzi, B., Sypher, I., Brooks-Gunn, J., McLanahan, S., & Hyde, L. W. (2019). The System for Coding Interactions and Family Functioning (SCIFF) in a representative low-income and urban sample of adolescents. *Psychological Assessment*, 31(8): 974-984. <https://doi.org/10.1037/pas0000719>
- [8] **Gard, A.M.**, Shaw, D., Forbes, E.E., & Hyde, L.W. (2018). Amygdala reactivity as a marker of differential susceptibility to socioeconomic resources in emerging adulthood:

For better or for worse? *Developmental Psychology*, 54(12), 2341-2355.

<https://doi.org/10.1037/dev0000600>

- [7] **Gard, A.M.**, Waller, R., Swartz, J., Shaw, D.S., Forbes, E.E., & Hyde, L.W. (2018). Amygdala functional connectivity during socioemotional processing prospectively predicts increases in internalizing symptoms in a sample of low-income, urban, young men. *Neuroimage*, 178: 562:573. <https://doi.org/10.1016/j.neuroimage.2018.05.079>
- [6] Waller, R., **Gard, A. M.**, Shaw, D. S., Forbes, E. E., Neumann, C. S., & Hyde, L. W. (2018). Weakened amygdala-vmPFC functional connectivity is related to psychopathic traits in low-income males during early adulthood. *Clinical Psychological Science*, 7(3) 628–635. <https://doi.org/10.1177/2167702618810231>
- [5] **Gard, A. M.**, Waller, R. W., Shaw, D. S., Forbes, E. E., Winslow, E. B., Hariri, A. R., & Hyde, L. W. (2017). The long reach of early adversity: Parenting, stress, and neural pathways to antisocial behavior in adulthood. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 2(7): 582:590. <https://doi.org/10.1016/j.bpsc.2017.06.005>
- [4] Hyde, L. W., Shaw, D. S., Murray, L., **Gard, A.**, Hariri, A. R., & Forbes, E. E. (2016). Dissecting the role of amygdala reactivity in antisocial behavior in a sample of young, low-income, urban men. *Clinical Psychological Science*, 4(3): 527:544. <https://doi.org/10.1177/2167702615614511>
- [3] **Gard, A. M.**, Owens, E. B., & Hinshaw, S. P. (2016). Prenatal smoke exposure predicts hyperactive/impulsive but not inattentive ADHD symptoms in adolescent and young adult girls. *Infant and Child Development*, 25(4): 339-351. <https://doi.org/10.1002/icd.1943>
- [2] Lavi, I., **Gard, A. M.**, Hagan, M., Van Horn, P., & Lieberman, A. F. (2015). Child-Parent Psychotherapy Examined in a Perinatal Sample: Depression, Posttraumatic Stress Symptoms and Child-Rearing Attitudes. *Journal of Social and Clinical Psychology*, 34(1), 64-82, <https://doi.org/101521jscp201534164>
- [1] Guendelman, M. D., Owens, E. B., Galán, C., **Gard, A.**, & Hinshaw, S. P. (2015). Early-adult correlates of maltreatment in girls with attention-deficit/hyperactivity disorder: increased risk for internalizing symptoms and suicidality. *Development and Psychopathology*, 28(1), 1-14, <https://doi.org/10.1017/S0954579414001485>

Manuscripts in Submission

- [2] **Gard, A. M.**, Sharig, D., Lurie, A*, Albrecht, A*, Mitchell, C., & Hyde, L. W. (under review). When Larger Sample Sizes are Not Enough: A Systematic Review of Methodological Reporting Practices in Human Neuroimaging. Pre-registration: <https://osf.io/6tpsh/> [*equal contribution]
- [1] Blumenthal, A. Dotterer, H. L. & **Gard, A. M.** (in progress). Where are the kids? Contemporary patterns in U.S. children's time use by age, gender, and socioeconomic resources. *Infant and Child Development*. Stage 1 in-principle acceptance.

Book Chapters

- [2] **Gard, A. M.**, & Ware, E. B. (2020). Linking gene regions jointly with environment and depression. In Preedy, V. R. & Patel, V. B. (Eds.), *The neuroscience of depression: Genetics, cell biology, neurology, behaviour and diet*. Cambridge, MA: Academic Press.
- [1] Lynn-Whaley, J., & **Gard, A.** (2012). *The Neuroscience Behind Misbehavior: Reimagining How Schools Discipline Youth. Keeping Kids In School and Out of Courts*, 26.

Manuscripts in Preparation and Preprints

- [4] Kim, H. and **Gard, A. M.** (in preparation, drafts). Income instability and adolescent

- internalizing behaviors.
- [3] Fuchs, J. E., Yang, E., Wilds, T. L., Shariq, D., Mueller, C. W., Gard., A. M. (in preparation, drafts). Facilitators and barriers to neighborhood social integration.
- [2] Shariq, D., Romeo, R., & Gard, A. M. (in preparation, drafts). Cognitive resilience to socioeconomic disadvantage during adolescence.
- [1] Ware, E. B., Schmitz, L., Faul, J., **Gard, A. M.**, Mitchell, C., ...& Kardia, S. L. Heterogeneity in polygenic scores for common human traits. *bioRxiv*, 106062

Denotes mentored student author

AWARDS & HONORS

2022	Early-Career Mentoring Institute, National Research Center on Poverty and Economic Mobility
2018	Pat Gurin Distinguished Speaker Award, University of Michigan
2015	Graduate Research Fellowship Honorable Mention, National Science Foundation
2014	Graduate Research Fellowship Honorable Mention, National Science Foundation

FUNDING

2023 - 2025	Broadening Participation Initiative, Department of Psychology, University of Maryland, College Park <u>Project Title:</u> <i>Ethical Representation in Biosocial Research</i> <u>Role:</u> Co-PI (with Dr. Fanita Tyrell) <u>Award Amount:</u> \$30,000 (direct and total costs)
2022 - 2023	Maryland Catalyst Fund New Directions Award <u>Project Title:</u> <i>The Community And Resilient Environments (CARE) Youth Internship Program</i> <u>Role:</u> PI <u>Award Amount:</u> \$25,000 (direct and total costs)
2022 - 2023	Deans Research Initiative, College of Behavioral and Social Sciences, University of Maryland, College Park <u>Project Title:</u> <i>An Evaluation of Sampling Methodologies for Reaching Underrepresented Groups</i> <u>Role:</u> Co-PI (with Dr. Brian Kim) <u>Award Amount:</u> \$20,000 (direct and total costs)
2021 - 2023	American Psychological Foundation Visionary Grant <u>Project Title:</u> <i>Ethical Representation in Biosocial Research</i> <u>Role:</u> Co-PI (with Dr. Fanita Tyrell and Dr. Collin Mueller) <u>Award Amount:</u> \$20,000 (direct and total costs)
2021 - 2023	Society for Research in Child Development Early Career Research Grant <u>Project Title:</u> <i>Ethical Representation in Biosocial Research</i> <u>Role:</u> Co-PI (with Dr. Fanita Tyrell) <u>Award Amount:</u> \$7,500 (direct and total costs)
2021 - 2023	Broadening Participation Initiative, Department of Psychology, University of Maryland, College Park

Project Title: *Ethical Representation in Biosocial Research*
Role: Co-PI (with Dr. Fanita Tyrell and Dr. Colin Mueller)
Award Amount: \$20,000 (direct and total costs)

- 2021 - 2022 **Deans Research Initiative, College of Behavioral and Social Sciences, University of Maryland, College Park**
Project Title: *Ethical Representation in Biosocial Research*
Role: Co-PI (with Dr. Fanita Tyrell and Dr. Colin Mueller)
Award Amount: \$30,000 (direct and total costs)
- 2019 - 2021 **Research Centers Collaborative Network (RCCN) Pilot Grant, National Institute on Aging (U24 AG058556)**
Project Title: *Examining Sex Differences in Pleiotropic Effects for Depression and Alzheimer's Disease Across the Life Course*
Role: Co-Investigator
Award Amount: \$30,000 (direct and total costs)
- 2019 – 2020 **Population Studies Center NICHD T32 Postdoctoral Fellowship, University of Michigan, Ann Arbor**
Project Title: *Leveraging administrative data to study neighborhood effects on adolescent brain development*
Role: Trainee
- 2019 **Rackham Candidacy Research Grant, University of Michigan**
Role: PI
Award Amount: \$5,000 (direct and total costs)
- 2018 **Rackham Predoctoral Fellowship, University of Michigan**
Project Title: *Contextual Influences on Youth Socioemotional and Corticolimbic Development*
Role: PI
Award Amount: \$35,000 (direct and total costs)
- 2016 – 2017 **Developmental Psychology NICHD T32 Predoctoral Fellowship, University of Michigan, Ann Arbor**
Project Title: *Developmental social-context and biomarkers of stress*
Role: Trainee
- 2017 **Institute for Social Research Libby Douvan Research Award, University of Michigan, Ann Arbor**
Project Title: *Psychopathology across the lifespan*
Role: PI
Award Amount: \$5,000 (direct and total costs)

UNFUNDED PROPOSALS AND PROPOSALS UNDER REVIEW

- 2023 **NSF CAREER:** *Documenting the Cognitive and Socioemotional Adaptations to Community Violence during Adolescence* (under review)
Role: PI
- 2022 **RWJF Health Policy Scholars Program, Deena Shariq** (unfunded)
Role: Primary Mentor
- 2022 **RWJF Health Policy Scholars Program, Joelle Fuchs** (unfunded)

- 2022 Role: Primary Mentor
CIFAR Azrieli Global Scholars Program (unfunded)
Role: PI
- 2021 **National Science Foundation GRFP**, Deena Shariq (unfunded)
Role: Primary Mentor
- 2021 **Ford Foundation Predoctoral Fellowship**, Joelle Fuchs (unfunded)
Role: Primary Mentor

TRAVEL AWARDS

- 2018 Wisconsin Emotion Symposium Travel Award
 2017, 2019 FLUX Society Travel Grant and Flash Talk
 2017 Society for Research in Child Development Travel Award
 2015 Fragile Families Data Workshop Travel Award

TEACHING EXPERIENCE

University of Maryland, College Park

Formal Courses (Instructor of Record)

- 2023 *Developmental Area Seminar* (1-3 credits, Graduate)
 2022 - *Introduction to Developmental Psychology* (3 credits, Undergraduate),
 Instructor of Record
 2022 - *Secondary Data Analysis* (3 credits, Graduate), Instructor of Record
 2021 - *Risk and Resilience across Development* (3 credits, Upper-level
 Undergraduate)

Mentorship

- 2023 - Ximena Juarez Diaz, Post-baccalaureate project coordinator (Role: Primary
 Mentor)
 2023 - Sophia Shaw, Post-baccalaureate lab manager (Role: Primary Mentor)
 2021 - Joelle Fuchs, PhD student in Clinical Psychology (Role: Primary Mentor)
 2021 - Deena Shariq, PhD student in Neuroscience and Cognitive Science (Role:
 Primary Mentor)
 2021 - 2023 Taylor Wilds, Post-baccalaureate lab manager, now PhD student at
 University of Texas at Austin
 2021 - 2023 Sriparna Sen, Post-baccalaureate lab manager, now PhD students at
 University of Pittsburgh
 2020 - Hyung (Gloria) Kim, PhD student in Neuroscience and Cognitive Science
 (Role: Co-Mentor; shifted to Primary Mentor 2023)

Undergraduate Researchers (Enrolled in Psyc479 or Paid Hourly)

Luna Warren (Fall 2021 – Summer 2023), Jalan Walker (Spring 2022 -), Jason Clarke
 (Spring 2022 -), Emily Yang (Winter 2022 – Spring 2023), Giselle Maya (Fall 2022 -),
 Andy/Katie Hindendach (Fall 2022 – Fall 2023), Stephanie Aybar-Bueno (Spring 2024 -),
 Saron Melaku (Spring 2024 -), Isabella Gonzalez (2024 -)

Committees

- 2023 – 2024 Damiana Colley, UG Honors Thesis (Role: Committee Member)
 2023 - Hyung (Gloria) Kim, NACS Dissertation (Role: Chair)
 2023 Joelle Fuchs, Clin Psych Master's Thesis (Role: Chair)
 2023 Deena Shariq, NACS Qualifying Exam (Role: Chair)
 2022 Imani Todd, Clin Psych Master's Thesis (Role: Committee Member)
 2021 – 2022 Megan Fitter, Dev Psych Dissertation (Role: Committee Member)

2021 Hyung (Gloria) Kim, NACS Qualifying Exam (Role: Committee Co-Chair)
 2021 Paige Munshell, UG Honors Thesis (Role: Committee Member)

University of Michigan, Ann Arbor

Formal Courses

2018 *The Neurobiology of Psychopathology: A Biological Perspective on Mental Illness*, Instructor of Record
 2015 *Advanced Research Methods in Developmental Psychology* (Writing Intensive), Graduate Student Instructor
 2015 *Research Methods in Psychology* (Writing Intensive), Graduate Student Instructor
 2014 *Introduction to Psychology*, Graduate Student Instructor

Mentorship

2018 - 2020 **Emma Rodgers**, Post-baccalaureate lab manager
 2018 - 2020 **Lara Stojanov**, Post-baccalaureate lab manager
 2017 – 2018 **Danielle Harrison**, Undergraduate Honors Student
 2016 – 2017 **Andrea Maxwell**, Undergraduate Honors Student

CONFERENCE ACTIVITY

Panels Organized

- [5] Infusing Community-Engaged Methods with Developmental Psychobiological Science (2022). Annual meeting of the International Society for Developmental Psychobiology (ISDP), San Diego, CA. Co-Chaired with Natalie H. Brito.
- [4] Novel Approaches to Operationalizing the Neighborhood Context. (2021). Annual meeting of the Society for Research in Child Development (SRCD), Virtual (due to COVID-19 pandemic).
- [3] Sample Size, Representation, or Both? Current Debates in Developmental Population Neuroscience. (2020). Annual meeting of the FLUX Society for Developmental Cognitive Neuroscience, Santa Rosa, CA, USA (virtual due to COVID-19 pandemic).
- [2] Genetic Effects on Health and Education Across the Life Course. (2019). Biannual Meeting of the Society for Research in Child Development (SRCD), Baltimore, MD, USA.
- [1] Cortisol, stress, and the brain: Implications for socioemotional behavior across development. (2017). Symposium presented at the biannual meeting of the Society for Research in Child Development (SRCD), Austin, TX, USA.

Papers Presented

- [15] **Gard, A. M.**, Mueller, C. W., Tyrell, F. A. (2022). Give the people what they want: Results from two qualitative studies exploring community members' perspectives on developmental research and biosocial methods. In Gard, A. M. & Brito, N. H (co-chairs). Infusing community-engaged methods with developmental psychobiological science. Talk presented at the meeting of the International Society for Developmental Neuroscience, San Diego, CA.
- [14] **Gard, A. M.**, James, S. A., McLanahan, S., Brooks-Gunn, J., Mitchell, C., Monk, C. S., & Hyde, L. W. (2021). Exposure to deadly gun violence and adolescent neurobehavioral outcomes. In Gard, A. M. (chair): Novel approaches to operationalizing the neighborhood context. Annual meeting of the Society for Research in Child Development (SRCD), Virtual (due to COVID-19 pandemic).
- [13] **Gard, A. M.**, James, S. A., McLanahan, S., Brooks-Gunn, J., Mitchell, C., Monk, C. S., & Hyde, L. W. (2020). Exposure to deadly gun violence and adolescent neurobehavioral outcomes. In Goosby, B. (chair): Expanding the diversity of biosocial

- research: Challenges and opportunities. Annual meeting of the American Sociological Association, San Francisco, CA, USA (virtual due to COVID-19 pandemic).
- [12] **Gard, A. M.**, Hyde, L. W., Morenoff, J. D., & Mitchell, C. (2020). Current Methodological Practices in Human Neuroimaging Studies: A Consideration of Sampling. In Gard, A. M. (chair): Sample Size, Representation, or Both? Current Debates in Developmental Population Neuroscience. Annual meeting of the FLUX Society for Developmental Cognitive Neuroscience, Santa Rosa, CA, USA (virtual due to COVID-19 pandemic).
- [11] **Gard, A. M.**, Maxwell, A. M., Shaw, D. S., Mitchell, C., Brooks-Gunn, J., McLanahan, S. S., Forbes, E. E., Monk, C. S., & Hyde, L. W. (2020). Beyond family-level adversities: Exploring the developmental timing of neighborhood effects on the brain. Paper to be presented at the Population Association of America Annual Meeting 2020, Washington, DC (cancelled due to COVID-19 pandemic).
- [10] **Gard, A. M.**, Burt, A., & Hyde, L.W. (2019). Unique effects of age and pubertal development on amygdala-PFC connectivity during face processing. Flash talk presented at the 2019 FLUX Society Conference, New York, NY, USA.
- [9] **Gard, A. M.**, Ware, E. B., Hyde, L. W., Schmitz, L., Faul, J., Notterman, D., & Mitchell, C. (2019). Assessing the phenotypic and genetic structure of psychopathology across the life course. In Gard, A. M. (chair): Genetic Effects on Health and Education Across the Life Course. Biannual Meeting of the Society for Research in Child Development (SRCD), Baltimore, MD, USA.
- [8] Woods, A. D., **Gard, A. M.**, Ware, E. B., Notterman, D., & Mitchell, C. (2019). Using polygenic scores for educational attainment to probe genetic effects on schooling outcomes among fragile families. Paper to be presented at the 2019 Annual Meeting of the Population Association of America, Austin, TX, USA.
- [7] **Gard, A. M.**, Ware E. B., Schmitz, L., Faul, J., & Mitchell, C. M. (2017). Using latent variables to uncover genetic main effects on psychopathology. Paper presented at the annual Integrating Genetics and the Social Sciences, Boulder, CO, USA.
- [6] **Gard, A. M.**, Maxwell, A. M., Shaw, D. M., Forbes, E. E., & Hyde, L. W. (2017). Timing, mechanisms, and components of neighborhood effects on the brain. Flash talk presented at the annual FLUX Society for Developmental Cognitive Neuroscience, Portland, OR, USA.
- [5] Schmitz, L. L., Ware, E. B., & **Gard, A. M.** (2017). Genetic and Social Contributions to Gender-Cohort Differences in Smoking Behavior. Paper presented at the annual Population Association of American, Chicago, IL, USA.
- [4] Ware, E. B., Schmitz, L., Faul, J., **Gard, A. M.**, Mitchell, C. M., Smith, J. A., & Zhao, W. (2017). Methods of Measurement: Implications of Polygenic Scores' Estimation Methods. Paper presented at the annual NIA-sponsored Biomarker Network Meeting, Chicago, IL, USA.
- [3] Hyde, L. W., **Gard, A. M.**, Murray, L. M., Roberts, R. C., Waller, R., & Burt, S. A. (2017). Genetically informed neural approaches to understanding the development of antisocial behavior. In Jones, D.J. (chair): Advancements in research and practice with childhood externalizing problems. Symposium to be presented at the annual meeting of the American Psychological Association, Washington, DC, USA.
- [2] **Gard, A. M.**, Waller, R., Shaw, D. S., Forbes, E. E., Hariri, A. R., Hyde, L. W. (2017). The long reach of early adversity: Parenting, stress, and neural pathways to crime and violence in adulthood. In Gard, A.M. (chair): Cortisol, stress, and the brain: Implications for socioemotional behavior across development. Symposium presented at the biannual meeting of the Society for Research in Child Development (SRCD), Austin, TX, USA.
- [1] Hyde, L. W., **Gard, A. M.**, Shaw, D. S., Forbes, E. E. (2016). Understanding neural

markers of resilience: Amygdala reactivity as a marker of differential susceptibility. Paper presented at Society for Research in Adolescence, Baltimore, MD.

Posters Presented (senior-author only; **denotes mentee)

- [5] Kim, H.C., Shariq, D., Hughes, M.G., Takarae, Y., & **Gard, A.** (2022). Moving beyond levels: Instability in poverty exposure as a distinct predictor of internalizing psychopathology. Poster presented at the annual meeting of the International Society for Developmental Psychobiology, San Diego, CA, United States.
- [4] **Wilds, T.L., Monk, C.S., Lopez-Duran, N.L., Mitchell, C., Hyde, L.W., & **Gard, A.M.** (2022). Evaluating a biopsychosocial model of adolescent mental health: Associations between heart rate variability, parenting, and neighborhood social cohesion. Poster presented at the 2022 Annual Meeting of the International Society for Developmental Psychobiology, San Diego, CA, United States.
- [3] **Fuchs, J.E., **Yang, E., **Wilds, T.L., **Shariq, D., Mueller, C.W., **Gard., A.M.** (2022) Facilitators and barriers to neighborhood social ties. Poster presented at the 2022 Annual Meeting of the International Society for Developmental Psychobiology, San Diego, CA, United States.
- [2] **Shariq, D., Romeo, R.R., **Kim, H.C., **Fuchs, J.E., **Gard., A.M.** (2022) Profiles of domain-specific cognitive development in socioeconomically disadvantaged youth. Poster presented at the 2022 Annual Meeting of the International Society for Developmental Psychobiology, San Diego, CA, United States.
- [1] **Sen, S., **Gard., A.M.** (2022) Testing the structural invariance of the bifactor model of psychopathology and its association with language across childhood. Poster presented at the 2022 Annual Meeting of the International Society for Developmental Psychobiology, San Diego, CA, United States.

Posters Presented (first-author only)

- [9] **Gard, A.M.**, Mueller, C.W., & Tyrell, F.T. (2023). "You have one chance to get it right": Perspectives on biosocial research in Black and Latinx communities. Poster presented at the 2023 annual meeting of the FLUX Congress for Developmental Cognitive Neuroscience, Santa Rosa, CA, USA.
- [8] **Gard, A.M.**, Hein, T.C., Mitchell, C.M., Brooks-Gunn, J., McLanahan, S.S., Monk, C.S., & Hyde L.W. (2019). Prospective longitudinal effects of harsh parenting on corticolimbic function during adolescence. Poster to be presented at the 2019 annual meeting of the International Society for Developmental Psychobiology, Chicago, IL, USA.
- [7] **Gard, A. M.**, Hein, T. C., Mitchell, C. M., Lopez-Duran, N. L., Monk, C. S., & Hyde, L.W. (2018). Trajectories of parental harshness across childhood predict corticolimbic reactivity to emotional facial expressions in adolescence. Poster presented at the annual FLUX Society for Developmental Cognitive Neuroscience, Berlin, Germany.
- [6] **Gard, A. M.**, Hein, T. C., Mitchell, C. M., Lopez-Duran, N. L., Monk, C. S., & Hyde, L.W. (2018). Trajectories of parental harshness across childhood predict corticolimbic reactivity to emotional facial expressions in adolescence. Poster presented at the Wisconsin Emotion Symposium, Madison, WI, USA.
- [5] **Gard, A. M.**, Waller, R., Swartz, J., Shaw, D. S., Forbes, E. E., & Hyde, L.W. (2018). Amygdala functional connectivity during socioemotional processing prospectively predicts increases in internalizing symptoms in a sample of low-income, urban, young men. Poster to be presented at the Society for Philosophy and Psychology, Ann Arbor, MI, USA.
- [4] **Gard, A. M.**, Shaw, D. S., Forbes, E. E., & Hyde, L. W. (2017). Amygdala reactivity as a marker of differential susceptibility to socioeconomic resources: For better or for

- worse? Poster presented at the biannual annual meeting of the Society for Research in Child Development (SRCD), Austin, TX, USA.
- [3] **Gard, A. M.**, Shaw, D. S., Winslow, E. B., Forbes, E. E., Hyde, L. W. (2015). *CRHR1* variants interact with early childhood parenting to differentially predict amygdala reactivity to threat in young adulthood. Poster presented at the Society for Research in Child Development Biennial Meeting, Philadelphia, PA, USA.
- [2] **Gard, A.**, Van Horn, P. & Lieberman, A. F. (2013). Maternal-fetal attachment offsets the risk for negative parenting attitudes in a sample of depressed pregnant women. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Seattle, WA.
- [1] **Gard, A.**, Owens, E. B. & Hinshaw, S. P. (2012). Prenatal smoke exposure predicts ADHD subtype longitudinally in a sample of girls. Poster session presented at the Transitions to Adulthood meeting of the Society for Research in Child Development, Tampa, FL

INVITED TALKS

- 2023 "Generalizability and Ethical Representation in Human Neuroimaging Studies", Seminar Series, Department of Behavioral and Community Health, University of Maryland School of Public Health
- 2023 "Population Neuroscience", Neuroscience Program Seminar, St. Mary's College of Maryland
- 2023 "Using Community-Engaged Methods to Study Adolescent Development In Context", Clinical Psychology Seminar, Yale University
- 2023 "Generalizability and Ethical Representation in Human Neuroimaging Studies", Maryland Population Research Center Brown Bag Seminar
- 2023 "Community-based Participatory Research in the Biosocial Sciences", UCLA Workshop on Diversity Considerations in Adolescent Brain, Keynote Panel Speaker
- 2023 "Community Perspectives on Biosocial Research", ABCD Justice, Equity, Diversity, and Inclusion (JEDI) Taskforce Quarterly Meeting, Keynote Panel Speaker
- 2023 "Retention and Representation in Developmental Neuroimaging", ABCD Retention Workgroup
- 2022 "Gun Violence Data in the Fragile Families and Child Wellbeing Study", Fragile Families and Child Wellbeing Data Workshop, Columbia University, Data Blitz Talk
- 2022 "Gun Violence, Collective Efficacy, and Adolescent Neurobehavioral Outcomes", Fragile Families and Child Wellbeing Data Workshop, Columbia University, Keynote Panel Speaker
- 2021 "Gun Violence, Collective Efficacy, and Adolescent Neurobehavioral Outcomes", Stress, Adversity, Trauma, & Resilience (STAR) Interdisciplinary Research Group, University of Georgia.
- 2019 "Poverty-related Adversities and Youth Neurobehavioral Development: Specificity, Timing, and Individual Variability", Department of Psychology, University of Maryland, College Park
- 2018 "Probing Neighborhood Disadvantage Effects on Corticolimbic Circuitry", Population, Neuroscience, and Genetics (PNG) Program at the Institute for Social Research, University of Michigan, Ann Arbor.

UNIVERSITY & COMMUNITY SERVICE

- Ongoing Ad-Hoc Reviewer: *Neuroimage, Emotion, Child Neuropsychology, Biological*

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- Psychiatry, Journal of Consulting and Clinical Psychology, Nature Communications, Developmental Cognitive Neuroscience, Social Science & Medicine: Mental Health, Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*
- 2023 – Open Science Committee, Psychology Department, University of Maryland, College Park
- 2021 – Community Outreach Meetings with Area Neighborhood Commissioners and Neighborhood Leaders (15 meetings, both formal [with slides] and informal discussions)
- 2021, 2023 Career Presentation to Urban Assembly School for Applied Math & Science (High School Students), Hollywood Elementary School
- 2021 – 2023 Editorial Board, *Discover Social Science and Health*
- 2021 – Community Outreach Events: 31 events total, reaching 1,775 families
- 2020 – Consulting Editor, *Journal of Research on Adolescence*
- 2020 – 2022 Diversity Committee, Neuroscience and Cognitive Neuroscience Program, University of Maryland, College Park
- 2020 – 2021 Graduate Committee, Psychology Department, University of Maryland, College Park
- 2016 Quantitative Faculty Hiring Committee, University of Michigan
- 2014 – 2016 Developmental Psychology Brown Bag Committee
- 2013 – 2019 Big Brothers Big Sisters Club of Washtenaw County, Mentor

SPECIALIZED TRAINING

Software/Programming

R Statistical Software, Mplus, SPSS, REDCap, MatLab, AFNI, Plink, Bash Command Line, ArcGIS

Quantitative Methodology

Multilevel Modeling for Longitudinal Data – Wright Statistical Methods, Pittsburgh
 Geostatistics and Modeling of Spatial Data – University of Michigan, Ann Arbor
 Genomics for Social Scientists – University of Michigan, Ann Arbor
 Linear Growth Curve Modeling – University of North Carolina, Chapel Hill
 Statistical Genetics Workshop – Washington University St. Louis
 fMRI research methods and analysis – University of Michigan, Ann Arbor

Diversity, Equity, and Inclusion

Professional Development Diversity, Equity, and Inclusion Certificate Program – 2018 - 2020

PROFESSIONAL MEMBERSHIPS

Society for Research in Child Development
 Association for Psychological Science
 Population Association of America
 FLUX Society (*Developmental Cognitive Neuroscience*)
 National Council on Family Relations
 International Society for Developmental Psychobiology

I, Arianna Gard, certify that this CV is true and accurate as of 01.04.2024