
ADRIENE M. BELTZ

Department of Psychology
University of Michigan
2227 East Hall
530 Church Street
Ann Arbor, MI 48109
abeltz@umich.edu; <http://sites.lsa.umich.edu/abeltz-lab>

CURRENT POSITION

- 2022- **Associate Professor of Psychology**
University of Michigan
- 2016-2022 **Assistant Professor of Psychology**
University of Michigan
- 2017- **Michigan Institute for Data Science**, Faculty affiliate
University of Michigan

EDUCATION AND TRAINING

- 2014-2016 **Post-doctoral scholar**
Department of Human Development and Family Studies
The Pennsylvania State University (PSU), University Park, PA
- 2014 **Ph.D., Psychology (developmental)**
Specialization in Cognitive and Affective Neuroscience
The Pennsylvania State University (PSU), University Park, PA
- 2009 **M.S., Experimental Psychology**
Saint Joseph's University (SJU), Philadelphia, PA
- 2008 **B.S., Psychology, *summa cum laude***
Minor: Theology
Honor's Program graduate
Saint Joseph's University, Philadelphia, PA

HONORS

Honors and awards:

- 2024 **Outstanding Early Career Alumni Award from the Pennsylvania State University Department of Psychology**
For success and influence as a leader, for significant career achievements, and for being an outstanding role model for current students
- 2021 **Anne Anastasi Distinguished Early Career Contributions Award from American Psychological Association Division 5**
Scholar who has made outstanding contributions to quantitative research methods
- 2021 **Wilbert McKeachie Award for Excellence in Lecture-Based Teaching**
University of Michigan Department of Psychology honor for teaching the graduate-level Advanced Research Methods and Statistics I and II course sequence
- 2020-2022 **Jacobs Foundation Early Career Research Fellowship**
Highly talented and innovative young scholars working on child and youth development
- 2019 **Association for Psychological Science Rising Star Award**
Outstanding psychological scientists in the earliest stages of their career whose innovative work has already advanced the field and signals great potential for continued contributions

- 2018 **Rachel Upjohn Clinical Scholars Award from the University of Michigan Comprehensive Depression Center**
- 2017 **Brenda A. Milner Award from American Psychological Association Division 6**
Excellent paper in behavioral neuroscience: *Oral contraceptives and cognition: A role for ethinyl estradiol*
- 2016 **The New Biobehavioral Science of Puberty International Working Group Early Career Scholar Award**
- 2016 **Society for Behavioral Neuroendocrinology New Investigator Award**
Symposium presentation and support for travel to SBN meeting, \$500
- 2014 **American Psychological Association Interdivisional Mentoring Award**
Support for travel to 2014 APA Convention, \$1,000
- 2014 **Graduate Exhibition Third Place Award, \$100**
- 2013 **Psychology Department Outstanding Graduate Student Publication, \$500**
- 2013 **College of the Liberal Arts Superior Teaching and Research Award**
Research project support for excellence in all aspects of graduate training, \$2,400
- 2009 **Geis Student Research on Women Conference Second Place Award, \$150**
- 2008 **Sigma Xi Research Award, \$200**
- 2008 **Psychology Department Outstanding Graduate Award**
- 2004-2008 **Dean's List**

Training fellowships:

- 2014 **College of the Liberal Arts Dissertation Support Grant**
Release time for one semester to complete dissertation
- 2011-2013 **Child Study Center Strumpf Scholars Fellowship**
Two years of summer support and research-related costs, \$9,000
- 2007 **Summer Scholars Program Fellowship, \$3,000**

Travel support:

- 2015 **Office of Postdoctoral Affairs Travel Award, \$200**
- 2014 **American Psychological Foundation 2014 Ungerleider/Zimbardo Travel Scholarship**
Support for travel to 2014 APA Convention, \$300
- 2012 **Society for Behavioral Neuroendocrinology Travel Award, \$750**
- 2011 & 2013 **Society for Research in Child Development Travel Awards**
2 awards, \$300 each
- 2010-2014 **Psychology Department and Child Study Center Travel Awards**
11 awards, ranging from \$500-\$750 each

RESEARCH FUNDING

Current:

Title: Personalized cognition in context: An ambulatory assessment study of executive function dynamics across adulthood and aging
Source: **James S. McDonnell Foundation Understanding Human Cognition Opportunity Award**
Award Amount: \$250,000 Award Period: 09/2020-08/2026
Role: PI
doi: 10.37717/2020-1145

Title: The impact of pubertal suppression on adolescent neural and mental health trajectories
Source: **National Institute of Mental Health (R01MH123746)** Award Period: 08/2021-07/2026
Award Amount: \$115,822 (subaward)
Role: Co-I (MPIs: Diane Chen, Eric Nelson, & John Strang)

Title: Investigating age-related neural dedifferentiation longitudinally and in Alzheimer's pathology
 Source: **National Institute on Aging** (R01AG050523)
 Award Amount: \$3,656,073 Award Period: 08/2021-07/2026
 Role: Co-I (PI: Thad Polk)

Title: Behavioral and neurobiological predictors of widespread pain in early adolescence and sex-specific trajectories of pain during puberty
 Source: **National Institute of Nursing Research** (R01NR020013)
 Award Amount: \$2,776,492 Award Period: 04/12/2022-01/31/2027
 Role: PI (MPI: Chelsea Kaplan)

Title: Psychological correlates of hormonal intrauterine device (IUD) use
 Source: **University of Michigan ADVANCE SUCCEED Grant**
 Award Amount: \$10,000 Award Period: 04/20/2022-04/20/2025
 Role: PI

Title: Efficiency of evidence accumulation (EEA) as a higher-order, computationally defined RDoC construct
 Source: **National Institute of Mental Health** (R21MH130939)
 Award Amount: \$429,000 Award Period: 04/15/2023-03/31/2025
 Role: Co-I (PI: Alexander Weigard)

Title: Individual variation in the psychological correlates of hormonal intrauterine device use
 Source: **University of Michigan Institute for Research on Women and Gender Faculty Seed Grant**
 Award Amount: \$7,500 Award Period: 04/2024-03/2026
 Role: PI

Mentor on training grants:

Title: Developmental Psychology Training Grant
 Source: **National Institute of Child Health and Human Development** (T32 HD007109)
 PIs: Christopher Monk, Vonnie McLoyd, & Susan Gelman

Title: Multidisciplinary Alcoholism Research Training Program
 Source: **National Institute on Alcohol Abuse and Alcoholism** (T32 AA007477)
 PI: Frederic Blow

Title: Regulation of stress and depression by hormonal contraceptives
 Source: **National Institute of Child Health and Human Development** (F31 HD114532)
 Award Amount: \$85,298 Award Period: 08/01/2024-07/31/2026
 Role: Co-I (consulting mentor)

Pending:

Title: Individual differences in oral contraceptive regulation of stress and risk for depression
 Source: **National Institutes of Health** (R01)
 Award Amount: \$2,927,725 Status: resubmitted
 Role: Consultant (PI: Natalie Tronson)

Title: A daily, longitudinal twin study of testosterone effects on binge eating in women
 Source: **National Institutes of Health** (R01)
 Award Amount: \$101,452 (subaward) Status: submitted
 Role: Co-I (MPIs: Kelly Klump & Kristen Culbert)

Title: Heterogeneity in dysmenorrhea as a window into lifelong pain
 Source: **National Institutes of Health** (RM1)
 Award Amount: \$7,862,948 Status: submitted

Role: PI (MPIs: Andrew Schrepf, Chelsea Kaplan, Sawsan As-Sanie, Stacey Missmer, & Frank Tu)

Title: Advanced training in functional magnetic resonance imaging analysis and reproducibility

Source: **National Institutes of Health (R25)**

Award Amount: \$773,752

Status: submitted

Role: Program Faculty (PI: Andy Jahn)

Title: An idiographic approach to the neurobiological underpinnings of adolescent chronic pelvic pain

Source: **National Institutes of Health (K99/R00)**

Award Amount: \$980,520

Status: submitted

Role: Mentor PI (Sponsor PI: Esmeralda Hidalgo-Lopez)

Completed:

Title: Beyond 'mean girls' and the 'average Joe': Using person-specific models to quantify daily gendered phenomena important for learning

Source: **Jacobs Foundation Early Career Research Fellowship**

Award Amount: \$171,119

Award Period: 01/2020-12/2023

Role: PI

Title: Using astronomical simulation techniques to assess temporal network methods for studying individual differences in learning

Source: **Canadian Institute for Advanced Research & Jacobs Foundation**

Award Amount: \$35,000

Award Period: 09/2021-08/2023

Role: PI

Title: Disentangling the context of interactions between cognition and daily alcohol use with intensive longitudinal data modeling

Source: **University of Michigan Addiction Center Research Catalyst Innovation Award**

Award Amount: \$15,000

Award Period: 07/2021-06/2023

Role: Co-I (PI: Alexander Weigard)

Title: COVID time? Stability and change in personalized anxiety networks

Source: **University of Michigan College of Literature, Science, and the Arts Summer Research Support Grant**

Award Amount: \$2,140

Award Period: 05/2022-08/2022

Role: PI

Title: Beyond 'mean girls' and the 'average Joe': Person-specific models quantify daily gendered phenomena important for teacher-reported learning

Source: **University of Michigan Institute for Research on Women and Gender Faculty Seed Grant**

Award Amount: \$8,418

Award Period: 04/2020-03/2022

Role: PI

Title: The person-specific structure of emotion and daily links to depressive symptomatology: Informing precision health by studying gender

Source: **UL1TR002240 (NIH/NCATS) via Michigan Institute for Clinical & Health Research Pilot Grant Program Award**

Award Amount: \$25,000

Award Period: 10/2018-09/2019

Role: PI

Title: The daily diary oral contraceptive study

Source: **University of Michigan Center for the Education of Women: Riecker Undergraduate Research Fund**

Award Amount: \$1,500

Award Period: 06/2018-08/2018

Role: PI

Title: The person-specific structure of emotion and daily links to depressive symptomatology: Informing individualized treatment

Source: **University of Michigan Comprehensive Depression Center Rachel Upjohn Clinical Scholars Award**

Award Amount: \$50,000

Award Period: 01/2018-01/2020

Role: PI

Title: Computational social science and individualized medicine

Source: **University of Michigan Institute of Data Science Core Faculty Award**

Award Amount: \$50,000

Award Period: 06/2017-06/2019

Role: PI

Title: Sex-related resting state brain function and behavior links in cigarette smokers

Source: **American Psychological Foundation / Council of Graduate Departments of Psychology Graduate Research Scholarship**

Award Amount: \$1,000

Award Period: 09/2013-09/2014

Role: PI

PUBLICATIONS (*Italics denote mentored trainee; ^ denotes joint authorship position*)

-
- Beltz, A. M.**, Portengen, C., & Berenbaum, S. A. (in press). Using behavioural network mapping to investigate dyadic play in girls with congenital adrenal hyperplasia. *British Journal of Developmental Psychology*. doi: 10.1111/bjdp.12520. PMID: 39222059
- Chaku, N., Berenbaum, S. A., Qian, Y., Corley, R. P., Wadsworth, S. J., Reynolds, C. A., & **Beltz, A. M.** (in press). Pubertal timing in adolescence and adulthood: Relations among contemporaneous and retrospective measures. *Developmental Psychology*. doi: 10.1037/dev0001784
- * **Beltz, A. M.**, & Kelly, D. P. (in press). Daily gender and cognition: A person-specific behavioral network analysis. *Multivariate Behavioral Research*. doi: 10.1080/00273171.2023.2228751. PMID: 37590438
- Hardi, F. A., **Beltz, A. M.**, McLoyd, V., Brooks-Gunn, J., Huntley, E., Mitchell, C., Hyde, L. W., & Monk, C. S. (2024). Latent profiles of childhood adversity, adolescent mental health, neural network connectivity. *JAMA Network Open*, 7(8), article e2430711. doi: 10.1001/jamanetworkopen.2024.30711. PMID: 39196556
- Bailey, D. H., Jung, A. J., **Beltz, A. M.**, Eronen, M. I., Gische, C., Hamaker, E. L., Kording, K. P., Lebel, C., Lindquist, M. A., Moeller, J., Razi, A., Rohrer, J. M., Zhang, B., & Murayama, K. (2024). Causal inference on human behavior. *Nature Human Behaviour*, 8, 1448-1459. doi: 10.1038/s41562-024-01939-z
- Zuppichini, M. D., Hamlin, A. M., Zhou, Q., Kim, E., Rajagopal, S., **Beltz, A. M.**, & Polk, T. A. (2024). GABA levels decline with age: A longitudinal study. *Imaging Neuroscience*, 2, 1-15. doi: 10.1162/imag_a_00224
- * **Beltz, A. M.** (2024). Hormonal contraceptives and behavior: Updating the potent state of the nascent science. *Hormones and Behavior*, 164, article 105574. doi: 10.1016/j.yhbeh.2024.105574. PMID: 38972245
- Rajagopal, S., **Beltz, A. M.**, Hampstead, B., & Polk, T. A. (2024). Estimating individual trajectories of structural and cognitive decline in mild cognitive impairment for early prediction of progression to dementia of the Alzheimer's type. *Scientific Reports*, 14, article 12906. doi: 10.1038/s41598-024-63301-7. PMCID: PMC11153588. PMID: 38839800
- Pletzer, B., Bodenbach, H., Hoehn, M., Hajdari, L., Hausinger, T., Noachtar, I., & **Beltz, A. M.** (2024). Reproducible stability of verbal and spatial functions along the menstrual cycle. *Neuropsychopharmacology*, 49, 933-941. doi: 10.1038/s41386-023-01789-9. PMID: 38267632
- Boele, S., Bülow, A., **Beltz, A. M.**, de Haan, A., Denissen, J. J. A., de Moor, M. H. M., & Keijsers, L. (2024). Like no other? A family-specific network approach to parenting adolescents. *Journal of*

Youth and Adolescence, 53, 982-997. doi: 10.1007/s10964-023-01912-5. PMCID: PMC10879241. PMID: 38055136

- * Le, E., Chaku, N., Foster, K. T., Weigard, A. S., & Beltz, A. M. (2024). The link between daily affective complexity and anxiety is altered by oral contraceptive use. *International Journal of Psychophysiology*, 198, article 112310; doi: 10.1016/j.ijpsycho.2024.112310. PMID: 38272264
- * Chaku, N., Yan, R., Kelly, D. P., Zhang, Z., Lopez-Duran, N., Weigard, A. S., & Beltz, A. M. (2024). 100 days of adolescence: Elucidating externalizing behaviors through the daily assessment of inhibition. *Research on Child and Adolescent Psychopathology*, 52, 93-110. doi: 10.1007/s10802-023-01071-y. PMCID: PMC10787911. PMID: 37405589
- Russman Block, S., Klump, K. L., Winters, A., Beltz, A., Burt, S. A., & Moser, J. (2024). Ovarian hormones reduce the negative association between worry and cognitive control: A combined neural and behavioral investigation. *Psychoneuroendocrinology*, 161, article 106947. doi: 10.1016/j.psyneuen.2023.106947. PMID: 38183865
- Becker, H. C., Beltz, A. M., Himle, J. A., Ableson, J. L., Russman Block, S., Taylor, S. F., & Fitzgerald, K. D. (2024). Changes in brain network connections after exposure and response prevention therapy for obsessive-compulsive disorder in adolescents and adults. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 9(1), 70-79. doi: 10.1016/j.bpsc.2023.09.009. PMCID: PMC10842137. PMID: 37820789
- Kaplan, C. M., Schrepf, A., Boehnke, K. F., He, Y., Smith, T., Williams, D. A., Bergmans, R., Voepel-Lewis, T., Hassett, A. L., Harris, R. E. Clauw, D. J., Beltz, A. M., & Harte, S. E. (2023). Risk factors for the development of multisite pain in children. *The Clinical Journal of Pain*, 39(11), 588-594. doi: 10.1097/AJP.0000000000001148. PMCID: PMC10592500. PMID: 37440345
- Boele, S., Bülow, A., Beltz, A. M., de Haan, A., Denissen, J. J. A., & Keijsers, L. (2023). The direction of effects between parenting and adolescent affective well-being in everyday life is family specific. *Scientific Reports*, 13, article 16106. doi: 10.1038/s41598-023-43294-5. PMCID: PMC10522680. PMID: 37752173
- Gloe, L. M., Russman Block, S., Klump, K. L., Beltz, A. M., & Moser, J. S. (2023). Determining menstrual cycle phase: An empirical examination of methodologies and recommendations for improvement in behavioral and brain sciences. *Hormones and Behavior*, 155, article 105421. doi: 10.1016/j.yhbeh.2023.105421. PMCID: PMC10714354. PMID: 37666081
- Dora, J., Piccirillo, M., Foster, K. T., Arbeau, K., Armeli, S., Auriacombe, M., Bartholow, B., Beltz, A. M., Blumenstock, S., Bold, K., Bonar, E., Braitman, A., Carpenter, R., Creswell, K., DeHart, T., Dvorak, R., Emery, N., Enkema, M., Fairbairn, C., Fairlie, A., Ferguson, S., Freire, T., Goodman, F., Gottfredson, N., Halvorson, M., Haroon, M., Howard, A., Hussong, A., Jackson, K., Jenzer, T., Kelly, D., Kuczynski, A., Kuerbis, A., Lee, C., Lewis, M., Linden-Carmichael, A., Littlefield, A., Lydon-Staley, D., Merrill, J., Miranda, R. Jr., Mohr, C., Read, J., Richardson, C., O'Connor, R., O'Malley, S., Papp, L., Piasecki, T., Sacco, P., Scaglione, N., Serre, F., Shadur, J., Sher, K., Shoda, Y., Simpson, T. L., Smith, M. R., Stevens, A., Stevenson, B., Tennen, H., Todd, M., Treloar Padovano, H. T., Trull, T., Waddell, J., Walukevich-Dienst, K., Witkiewitz, K., Wray, T., Wright, A. G. C., Wycoff, A., & King, K. M. (2023). The daily association between affect and alcohol use: A meta-analysis of individual participant data. *Psychological Bulletin*, 149(1-2), 1-24. doi: 10.1037/bul0000387. PMCID: PMC10409490. PMID: 37560174
- Hardi, F. A., Goetschius, L. G., McLoyd, V., Lopez-Duren, N. L., Mitchell, C., Hyde, L. W., Beltz, A. M., & Monk, C. S. (2023). Adolescent functional network connectivity prospectively predicts adult anxiety symptoms related to perceived COVID-19 economic adversity. *Journal of Child Psychology and Psychiatry*, 64(6), 918-929. doi: 10.1111/jcpp.13749. PMCID: PMC9880614. PMID: 36579796
- Weigard, A., Lane, S., Gates, K., & Beltz, A. (2023). The influence of autoregressive relation strength and search strategy on directionality recovery in group iterative multiple model estimation. *Psychological Methods*, 28(2), 379-400. doi: 10.1037/met0000460. PMCID: PMC9897594. PMID: 34941327

- Sun, X., Marks, R. A., Eggleston, R. L., Zhang, K., Yu, C.-L., Nickerson, N., Caruso, V., Chou, T.-L., Hu, X.-S., Tardif, T., Booth, J. R., **Beltz, A. M.**, & Kovelman, I. (2023). Bilingual proficiency enhances neural network density: Sources of heterogeneity in children's functional connectivity during English word processing. *Neurobiology of Language*, *4*(2), 198-220. doi: 10.1162/nol_a_00092. PMID: 37229508
- Luo, L., Fisher, Z. F., Arizmendi, C., Molenaar, P. C. M., **Beltz, A.**, & Gates, K. M. (2023). Estimating both directed and undirected contemporaneous relations in time series data using hybrid-group iterative multiple model estimation. *Psychological Methods*, *28*(1), 189-206. doi: 10.1037/met0000485. PMID: 35420853
- * Petersen, N., **Beltz, A. M.**, Casto, K. V., Taylor, C. M., Jacobs, E. G., Sundström-Poromaa, I., & Pletzer, B. (2023). Towards a more comprehensive neuroscience of hormonal contraceptives. *Nature Neuroscience*, *26*, 529-531. doi: 10.1038/s41593-023-01273-z. PMID: 36879144
- Beltz, A. M.**, Demidenko, M. I., Wilson, S. J., & Berenbaum, S. A. (2023). Prenatal androgen influences on the brain: A review, critique, and illustration of research on congenital adrenal hyperplasia. *Journal of Neuroscience Research*, *101*(5), 563-574. doi: 10.1002/jnr.24900. PMID: 34139025
- Constante, K., Demidenko, M. I., Huntley, E., Rivas-Drake, D., Keating, D., & **Beltz, A. M.** (2023). Personalized neural networks underlie individual differences in ethnic identity exploration and resolution. *Journal of Research on Adolescence*, *33*(1), 24-42. doi: 10.1111/jora.12760. PMID: 35429195
- * Dorn, L. D., & **Beltz, A. M.** (2023). Puberty: Foundations, findings, and the future. In L. J. Crockett, G. Carlo, & J. E. Schulenberg (Eds.), *APA handbook of adolescent and young adult development* (pp. 3-19). Washington, DC: American Psychological Association. doi: 10.1037/0000298-001
- Foster, K. T., & **Beltz, A. M.** (2022). Heterogeneity in affective complexity among men and women. *Emotion*, *22*(8), 1815-1827. doi: 10.1037/emo0000956. PMID: 34014723
- * **Beltz, A. M.** (2022). Hormonal contraceptive influences on cognition and psychopathology: Past methods, current inferences, and future directions. *Frontiers in Neuroendocrinology*, *67*, article 101037. doi: 10.1016/j.yfrne.2022.101037. PMID: 36154817
- Kelly, D. P., & **Beltz, A. M.** (2022). Spatial skills and self-perceived masculinity: Considering college major STEM-ness, directionality, and gender. *Sex Roles*, *87*, 251-266. doi: 10.1007/s11199-022-01308-y
- Pham, H. T., **Beltz, A. M.**, Corley, R. P., & Berenbaum, S. A. (2022). Twin studies of puberty and behavior. In A. D. Tarnoki, D. L. Tarnoki, J. R. Harris, & N. Segal (Eds.), *Twin research for everyone: From biology to health, epigenetics, and psychology* (pp. 457-473): Academic Press. doi: 10.1016/B978-0-12-821514-2.00030-1
- Wengrovius, C., Zick, S., **Beltz, A. M.**, Wentz, E. E., Ulrich, D. A., & Robinson, L. E. (2022). Relations among parent-reported physical activity and interoception in children. *Physiology & Behavior*, *254*, article 13895. doi: 10.1016/j.physbeh.2022.113895. PMID: 35772479
- Beltz, A. M.**, Demidenko, M. I., Chaku, N., Klump, K. L., & Joseph, J. E. (2022). Intrauterine device use: A new frontier for behavioral neuroendocrinology. *Frontiers in Endocrinology*, *13*, article 853714. doi: 10.3389/fendo.2022.853714. PMID: 35937811
- Kaplan, C. M., Schrepf, A., Mawla, I., Ichesco, E., Boehnke, K.F., **Beltz, A. M.**, Foxen-Craft, E., Puglia II, M. P., Tsodikov, A., Williams, A. D., Hassett, A. L., Clauw, D. J., Harte, S. E., & Harris, R. E. (2022). Neurobiological antecedents of multisite pain in children. *Pain*, *163*(4), e596-e603. doi: 10.1097/j.pain.0000000000002431. PMID: 34382607
- Chaku, N., & **Beltz, A. M.** (2022). Using temporal network methods to reveal the idiographic nature of development. In R. O. Gilmore & J. J. Lockman (Eds.), *Advances in Child Development and Behavior*, *62*, 159-190. doi: 10.1016/bs.acdb.2021.11.003. PMID: 35249681
- Arredondo, M. M., Kovelman, I., Satterfield, T., Hu, X., Stojanov, L., & **Beltz, A. M.** (2022). Person-specific connectivity mapping uncovers differences of bilingual language experience on brain bases of attention in children. *Brain and Language*, *227*, article 105084. doi: 10.1016/j.bandl.2022.105084. PMID: 35176615

- Louis, C. C., Kneip, C., Moran, T. P., **Beltz, A. M.**, Klump, K. L., & Moser, J. S. (2022). Hormonal contraceptive use moderates the association between worry and error-related brain activity. *International Journal of Psychophysiology*, *171*, 48-54. doi: 10.1016/j.ijpsycho.2021.11.003. PMID: 34856221
- Beltz, A. M.**, Loviska, A. M., Kelly, D. P., & Nielson, M. G. (2022). The link between masculinity and spatial skills is moderated by the estrogenic and progestational activity of oral contraceptives. *Frontiers in Behavioral Neuroscience*, *15*, article 777911. doi: 10.3389/fnbeh.2021.777911. PMID: 35153692
- Demidenko, M. I., Huntley, E. D., Weigard, A. S., Keating, D. P., & **Beltz, A. M.** (2022). Neural heterogeneity underlying late adolescent motivational processing is linked to individual differences in behavioral sensation seeking. *Journal of Neuroscience Research*, *100*(3), 762-779. doi: 10.1002/jnr.25005. PMID: 35043448
- Ganesan, K., Plass, J., **Beltz, A. M.**, Liu, Z., Grabowecky, M., Suzuki, S., Stacey, W. C., Wasade, V. S., Towle, V. L., Tao, J. X., Wu, S., Issa, N. P., & Brang, D. (2021). Visual speech differentially modulates beta, theta, and high gamma bands in auditory cortex. *European Journal of Neuroscience*, *54*, 7301-7317. doi: 10.1111/ejn.15482. PMID: 34587350
- * Weigard, A., Loviska, A. M., & **Beltz, A. M.** (2021). Little evidence for sex or ovarian hormone influences on affective variability. *Scientific Reports*, *11*, article 20925. doi: 10.1038/s41598-021-00143-7. PMID: 34686695
- Kelly, D., & **Beltz, A. M.** (2021). Capturing fluctuations in gendered cognition with novel intensive longitudinal measures. *Assessment*, *28*(7), 1813-1827. doi: 10.1177/1073191120952888. PMID: 33106024
- Duffy, K. A., Fisher, Z. F., Arizmendi, C. A., Molenaar, P. C. M., Hopfinger, J., Cohen, J. R., **Beltz, A. M.**, Lindquist, M. A., Hallquist, M. N., & Gates, K. M. (2021). Detecting task-dependent functional connectivity in group iterative multiple model estimation with person-specific hemodynamic response functions. *Brain Connectivity*, *11*(6), 418-429. doi: 10.1089/brain.2020.0864. PMID: 33478367
- Berenbaum, S. A., & **Beltz, A. M.** (2021). Evidence and implications from a natural experiment of prenatal androgen effects on gendered behavior. *Current Directions in Psychological Science*, *30*(3), 202-210. doi: 10.1177/0963721421998341. PMID: 35692960
- Kelly, D. P., Weigard, A., & **Beltz, A. M.** (2021). Directions of relations and idiographic-nomothetic continua in psychosomatic research: Reflections on Groen et al. (2021). *Journal of Psychosomatic Research*, *146*, article 110428. doi: 10.1016/j.jpsychores.2021.110428. PMID: 33812661
- Nielson, M. G., & **Beltz, A. M.** (2021). Oral contraceptive use is not related to gender self-concept. *Psychoneuroendocrinology*, *129*, article 105271. doi: 10.1016/j.psyneuen.2021.105271. PMID: 34030085
- Beltz, A. M.**, Loviska, A. M., & Weigard, A. (2021). Daily gender expression is associated with psychological adjustment for some people, but mainly men. *Scientific Reports*, *11*, article 9114. doi: 10.1038/s41598-021-88279-4. PMID: 33907237
- Chaku, N., Kelly, D. P., & **Beltz, A. M.** (2021). Individualized learning potential in stressful times: How to leverage intensive longitudinal data to inform online learning. *Computers in Human Behavior*, *121*, article 106772. doi: 10.1016/j.chb.2021.106772. PMID: 33927470
- Chen, D. A., Strang, J. F., Kolbuck, V. D., Rosenthal, S. M., Wallen, K., Waber, D. P., Steinberg, L., Sisk, C. L., Ross, J., Paus, T., Mueller, S. C., McCarthy, M. M., Micevych, P. E., Martin, C. L., Kreukels, B. P. C., Kenworthy, L., Herting, M. M., Herlitz, A., Haraldsen, I. R. J. H., Dahl, R., Crone, E., Chelune, G. J., Burke, S. M., Berenbaum, S. A., **Beltz, A. M.**, Bakker, J., Eliot, L., Vilain, E., Wallace, G. L., Nelson, E., & Garofalo, R. (2020). Consensus parameter: Research methodologies to evaluate neurodevelopmental effects of pubertal suppression in transgender youth. *Transgender Health*, *5*(4), 246-257. doi: 10.1089/trgh.2020.0006. PMID: 33376803

- Beltz, A. M.**, Corley, R. P., Wadsworth, S. J., DiLalla, L. A., & Berenbaum, S. A. (2020). Does puberty affect the development of behavior problems as a mediator, moderator, or unique predictor? *Development and Psychopathology*, *32*(4), 1473-1485. doi: 10.1017/S095457941900141X. PMID: 31735198
- Dotterer, H. L., **Beltz, A. M.**, Foster, K. T., Simms, L. J., & Wright, A. G. (2020). Personalized models of personality disorders: Using a temporal network method to understand symptomatology and daily functioning in a clinical sample. *Psychological Medicine*, *50*(14), 2397-2405. doi: 10.1017/S0033291719002563. PMID: 31597579
- Goetschius, L. G., Hein, T. C., McLanahan, S. S., Brooks-Gunn, J., McLoyd, V. C., Dotterer, H. L., Lopez-Duran, N. L., Mitchell, C., Hyde, L. W., Monk, C. S., & **Beltz, A. M.** (2020). Association of childhood violence exposure with adolescent neural network density. *JAMA Network Open*, *3*(9), e2017850. doi: 10.1001/jamanetworkopen.2020.17850. PMCID: PMC7512058. PMID: 32965498
- Dotterer, H. L., Hyde, L. W., Shaw, D. S., Rodgers, E. L., Forbes, E. E., & **Beltz, A. M.** (2020). Connections that characterize callousness: Affective features of psychopathy are associated with personalized patterns of resting-state network connectivity. *NeuroImage: Clinical*, *28*, article 102402. doi: 10.1016/j.nicl.2020.102402. PMCID: PMC7479442. PMID: 32891038
- Kelly, D., Weigard, A. & **Beltz, A. M.** (2020). How are you doing? The person-specificity of daily links between neuroticism and physical health. *Journal of Psychosomatic Research*, *137*, 110194. doi: 10.1016/j.jpsychores.2020.110194. PMCID: PMC7854527. PMID: 32736131
- Molenaar, P. C. M., & **Beltz, A. M.** (2020). Modeling the individual: Bridging nomothetic and idiographic levels of analysis. In A. G. C. Wright & M. N. Hallquist (Eds.), *Handbook of research methods in clinical psychology* (pp. 327-336). Cambridge: Cambridge University Press. doi: 10.1017/9781316995808.031
- Beltz, A. M.**, Kelly, D. P., & Berenbaum, S. A. (2020). Sex differences in brain and behavioral development. In J. Rubenstein, P. Rakic, B. Chen, & K. Y. Kwan (Series Eds.), *Neural circuit and cognitive development* (2nd ed., pp. 585-638). Academic Press. doi: 10.1016/B978-0-12-814411-4.00027-5
- Price, R. B., **Beltz, A. M.**, Woody, M. L., Cummings, L., Gilchrist, D., & Siegle, G. J. (2020). Neural connectivity subtypes predict discrete attentional bias profiles among heterogeneous anxiety patients. *Clinical Psychological Science*, *8*(3), 491-505. doi: 10.1177/2167702620906149. PMCID: PMC7983837. PMID: 33758682
- Weigard, A., Hardee, J., Zucker, R., Heitzeg, M., & **Beltz, A.** (2020). The role of pubertal timing in the link between family history of alcohol use disorder and late adolescent substance use. *Drug and Alcohol Dependence*, *210*, 107955. doi: 10.1016/j.drugalcdep.2020.107955. PMCID: PMC7271760. PMID: 32247248
- Beltz, A. M.**, & Moser, J. S. (2020). Ovarian hormones: A long overlooked, but critical contributor to cognitive brain structures and function. *Annals of the New York Academy of Sciences*, *1464*(1), 156-180. doi: 10.1111/nyas.14255. PMID: 31639230
- Peckins, M. K., & **Beltz, A. M.** (2020). Sex and stress hormones across development: A focus on early behavior. In Benson, J. B. (Ed.), *Encyclopedia of Infant and Early Childhood Development* (2nd ed., pp. 125-134). London: Elsevier. doi: 10.1016/B978-0-12-809324-5.23624-9
- Beltz, A. M.**, & Weigard, A. (2019). Methodological advances in leveraging large datasets in adolescent substance use research. *Current Addiction Reports*, *6*, 495-503. doi: 10.1007/s40429-019-00275-x. PMCID: PMC7380562. PMID: 32714741
- Beltz, A. M.**, Beery, A. K., & Becker, J. B. (2019). Analysis of sex differences in pre-clinical and clinical data sets. *Neuropsychopharmacology*, *44*, 2155-2158. doi: 10.1038/s41386-019-0524-3. PMCID: PMC6898365. PMID: 31527863
- Grower, P., Ward, L. M., **Beltz, A. M.** (2019). Downstream consequences of pubertal timing for young women's body beliefs. *Journal of Adolescence*, *72*, 162-166. doi: 10.1016/j.adolescence.2019.02.012 PMID: 30927567

- Goddings, A.-L., **Beltz, A.**, Peper, J. S., Crone, E. A., & Braams, B. R. (2019). Understanding the role of puberty in structural and functional development of the adolescent brain. *Journal of Research on Adolescence*, 29(1), 32-53. doi: 10.1111/jora.12408 PMID: 30869842
- Mendle, J., **Beltz, A.**, Carter, R., & Dorn, L. (2019). Understanding puberty and its measurement: Ideas for research in a new generation. *Journal of Research on Adolescence*, 29(1), 82-95. doi: 10.1111/jora.12371 PMID: 30869839
- Weigard, A., **Beltz, A.**, Reddy, S., & Wilson, S. (2019). Characterizing the role of the pre-SMA in the control of speed/accuracy trade-off with directed functional connectivity mapping and multiple solution reduction. *Human Brain Mapping*, 40, 1829-1843. doi: 10.1002/hbm.24493. PMCID: PMC6865688. PMID: 30569619
- Lane, S., Gates, K. M., Pike, H., **Beltz, A. M.**, & Wright, A. G. C. (2019). Uncovering general, shared, and unique temporal patterns in ambulatory assessment data. *Psychological Methods*, 24(1), 54-69. doi: 10.1037/met0000192. PMCID: PMC6433550. PMID: 30124300
- Beltz, A. M.**, Loviska, A. M., & Kelly, D. (2019). No personality differences between oral contraceptive users and naturally cycling women: Implications for research on sex hormones. *Psychoneuroendocrinology*, 100, 127-130. doi: 10.1016/j.psyneuen.2018.09.034. PMID: 30321772
- Beltz, A. M.**, Moser, J. S., Zhu, D. C. Burt, A., Klump, K. L. (2018). Using person-specific neural networks to characterize heterogeneity in eating disorders: Illustrative links between emotional eating and ovarian hormones. *International Journal of Eating Disorders*, 51, 730-740. doi: 10.1002/eat.22902. PMCID: PMC6186182. PMID: 30132946
- Berenbaum, S. A., & **Beltz, A. M.** (2018). From genes to behavior through sex hormones and socialization: The example of gender development. *Twin Research and Human Genetics*, 21(4), 289-294. doi: 10.1017/thg.2018.39. PMID: 30027871
- Foster, K. T., & **Beltz, A. M.** (2018). Advancing statistical analysis of ambulatory assessment data in the study of addictive behavior: A primer on three person-oriented techniques. *Addictive Behaviors*, 83, 25-44. doi: 10.1016/j.addbeh.2017.12.018. PMCID: PMC7460806. PMID: 29548570
- Beltz, A. M.** (2018). Gendered mechanisms underlie the relation between pubertal timing and adult depressive symptoms. *Journal of Adolescent Health*, 62(6), 722-728. doi: 10.1016/j.jadohealth.2017.12.019. PMID: 29784116
- Berenbaum, S. A., **Beltz, A. M.**, Bryk, K., & McHale, S. (2018). Gendered peer involvement in girls with congenital adrenal hyperplasia: Effects of prenatal androgens, gendered activities, and gender cognitions. *Archives of Sexual Behavior*, 47(4), 915-929. doi: 10.1007/s10508-017-1112-4. PMCID: PMC9173056. PMID: 29318470
- Heitzeg, M. M., Hardee, J. E., & **Beltz, A. M.** (2018). Sex differences in the developmental neuroscience of adolescent substance use risk. *Current Opinion in Behavioral Sciences*, 23, 21-26. doi: 10.1016/j.cobeha.2018.01.020. PMCID: PMC6028191. PMID: 29977984
- Beltz, A. M.** (2018). Connecting theory and methods in adolescent brain research. *Journal of Research on Adolescence*, 28(1), 10-25. doi: 10.1111/jora.12366. PMID: 29460359
- Bouwman, M. E. J., **Beltz, A. M.**, Bos, E. H., Oldehinkel, A. J., de Jonge, P., & Molenaar, P. C. M. (2018). The person-specific interplay among melatonin, affect, and fatigue in the context of sleep and depression. *Personality and Individual Differences*, 123, 163-170. doi: 10.1016/j.paid.2017.11.022
- Beltz, A. M.**, & Gates, K. M. (2017). Network mapping with GIMME. *Multivariate Behavioral Research*, 52(6), 789-804. doi: 10.1080/00273171.2017.1373014. PMCID: PMC6181449. PMID: 29161187
- Beltz, A. M.** (2017). Biopsychology of sex differences. In B. Hopkins, E. Geangu, & S. Linkenauer (Eds.), *The Cambridge encyclopedia of child development* (2nd ed., pp. 764-769). New York, NY: Cambridge University Press.
- Beltz, A. M.** (2017). Biological sex and social development. In K. L. Nadal (Ed.), *The SAGE encyclopedia of psychology and gender* (pp. 165-170). Thousand Oaks, CA: SAGE Publications, Inc. doi: 10.4135/9781483384269.n

- Endendijk, J. J., **Beltz, A. M.**, McHale, S. M., Bryk, K., & Berenbaum, S. A. (2016). Linking prenatal androgens to gender-related attitudes, identity, and activities: Evidence from girls with congenital adrenal hyperplasia. *Archives of Sexual Behavior, 45*(7), 1807-1815. doi: 10.1007/s10508-016-0693-7. PMID: 26940967
- Beltz, A. M.**, Wright, A. G. C., *Sprague, B. N.*, & Molenaar, P. C. M. (2016). Bridging the nomothetic and idiographic approaches to the analysis of clinical data. *Assessment, 23*(4), 447-458. doi: 10.1177/1073191116648209. PMCID: PMC5104664. PMID: 27165092
- Beltz, A. M.**, & Molenaar, P. C. M. (2016). Dealing with multiple solutions in structural vector autoregressive models. *Multivariate Behavioral Research, 51*(2-3), 357-373. doi: 10.1080/00273171.2016.1151333. PMID: 27093380
- Berenbaum, S. A., & **Beltz, A. M.** (2016). How early hormones shape gender development. *Current Opinion in Behavioral Sciences, 7*, 53-60. doi: 10.1016/j.cobeha.2015.11.011. PMCID: PMC4681519. PMID: 26688827
- Molenaar, P. C. M., **Beltz, A. M.**, Gates, K. M., & Wilson, S. J. (2016). State space modeling of time-varying contemporaneous and lagged relations in connectivity maps. *NeuroImage, 125*, 791-802. doi: 10.1016/j.neuroimage.2015.10.088. PMCID: PMC5378168. PMID: 26546863
- Wright, A. G. C., **Beltz, A. M.**, Gates, K. M., Molenaar, P. C. M., & Simms, L. J. (2015). Examining the dynamic structure of internalizing and externalizing behavior at multiple levels of analysis. *Frontiers in Psychology, 6*, article 1914. doi: 10.3389/fpsyg.2015.01914. PMCID: PMC4681806. PMID: 26732546
- Beltz, A. M.**, Hampson, E., & Berenbaum, S. A. (2015). Oral contraceptives and cognition: A role for ethinyl estradiol. *Hormones and Behavior, 74*, 209-217. doi: 10.1016/j.yhbeh.2015.06.012. PMID: 26122296
- Beltz, A. M.**, & Molenaar, P. C. M. (2015). A posteriori model validation for the temporal order of directed functional connectivity maps. *Frontiers in Neuroscience: Brain Imaging Methods, 9*, article 304. doi: 10.3389/fnins.2015.00304. PMCID: PMC4551081. PMID: 26379489
- Beltz, A. M.**, Berenbaum, S. A., & Wilson, S. J. (2015). Sex differences in resting state brain function of cigarette smokers and links to nicotine dependence. *Experimental and Clinical Psychopharmacology, 23*(4), 247-254. doi: 10.1037/pha0000033. PMCID: PMC4526105. PMID: 26237322
- Corley, R. P., **Beltz, A. M.**, Wadsworth, S. J., & Berenbaum, S. A. (2015). Genetic influences on pubertal development and links to behavior problems. *Behavior Genetics, 45*(3), 294-312. doi: 10.1007/s10519-015-9719-5. PMCID: PMC4963204. PMID: 25903988
- Berenbaum, S. A., **Beltz, A. M.**, & Corley, R. P. (2015). The importance of puberty for adolescent development: Conceptualization and measurement. In J. B. Benson (Ed.), *Advances in Child Development and Behavior, 48*, 53-92. doi: 10.1016/bs.acdb.2014.11.002. PMID: 25735941
- Beltz, A. M.**, Corley, R. P., Bricker, J. B., Wadsworth, S. J., & Berenbaum, S. A. (2014). Modeling pubertal timing and tempo and examining links to behavior problems. *Developmental Psychology, 50*(12), 2715-2726. doi: 10.1037/a0038096. PMCID: PMC4251487. PMID: 25437757
- Berenbaum, S. A., & **Beltz, A. M.** (2014). The complex causes and modification of gender development: Commentary on Hanish & Fabes; Leaper; Bigler, Hayes, & Hamilton; Halim & Lindner. In R. E. Tremblay, M. Boivin, & R. DeV. Peters (Eds.), *Encyclopedia on early childhood development*, In C. L. Martin (Topic ed.), *Early socialization differences in boys and girls* [online]. Montréal, Quebec: Centre of Excellence for Early Childhood Development and Strategic Knowledge Cluster on Early Child Development.
- Beltz, A. M.**, Beekman, C., Molenaar, P. C. M., & Buss, K. A. (2013). Mapping temporal dynamics in social interactions with unified structural equation modeling: A description and demonstration revealing time-dependent sex differences in play behavior. *Applied Developmental Science, 17*(3), 152-168. doi: 10.1080/10888691.2013.805953. PMCID: PMC3772550. PMID: 24039386

- Beltz, A. M., & Berenbaum, S. A.** (2013). Cognitive effects of variations in pubertal timing: Is puberty a period of brain reorganization for human sex-typed cognition? *Hormones and Behavior*, *63*(5), 823-828. doi: 10.1016/j.yhbeh.2013.04.002. PMID: 23603479
- Beltz, A. M., Blakemore, J. E. O., & Berenbaum, S. A.** (2013). Sex differences in brain and behavioral development. In P. Rakic & J. Rubenstein (Series Eds.), *Comprehensive developmental neuroscience*, In H. Tager-Flusberg (Vol. Ed.), *Neural circuit development and function in the healthy and diseased brain, vol. 3* (pp. 467-499). Oxford: Elsevier. doi: 10.1016/B978-0-12-397267-5.00064-9
- Beltz, A. M., Gates, K. M., Engels, A. S., Molenaar, P. C. M., Turrisi, R., Berenbaum, S. A., Gilmore, R. O., & Wilson, S. J.** (2013). Changes in alcohol-related brain networks across the first year of college: A prospective pilot study using fMRI effective connectivity mapping. *Addictive Behaviors*, *38*(4), 2052-2059. doi: 10.1016/j.addbeh.2012.12.023. PMCID: PMC3616613. PMID: 23395930
- Berenbaum, S. A., Bryk, K. L. K., & **Beltz, A. M.** (2012). Early androgen effects on spatial and mechanical abilities: Evidence from congenital adrenal hyperplasia. *Behavioral Neuroscience*, *126*(1), 86-96. doi: 10.1037/a0026652. PMCID: PMC3270350. PMID: 22289044
- Beltz, A. M., Swanson, J. L., & Berenbaum, S. A.** (2011). Gendered occupational interests: Prenatal androgen effects on psychological orientation to things versus people. *Hormones and Behavior*, *60*(4), 313-317. doi: 10.1016/j.yhbeh.2011.06.002. PMCID: PMC3166361. PMID: 21689657
- Berenbaum, S. A., Blakemore, J. E. O., & **Beltz, A. M.** (2011). A role for biology in gender-related behavior. *Sex Roles*, *64*, 804-825. doi: 10.1007/s11199-011-9990-8
- Berenbaum, S. A., & **Beltz, A. M.** (2011). Sexual differentiation of human behavior: Effects of prenatal and pubertal organizational hormones. *Frontiers in Neuroendocrinology*, *32*(2), 183-200. doi: 10.1016/j.yfrne.2011.03.001. PMID: 21397624

Under review:

- Dyer, W. G., **Beltz, A. M.**, & Wilson, S. (under review). Association between oral contraceptive use and cigarette use in women who smoke cigarettes.
- Hidalgo-Lopez, E., Smith, T., Angstadt, K. M., Becker, H. C., Schrepf, A., Clauw, D. J., Harte, S. E., Heitzeg, M. M., Mindell, J. A., Kaplan, C. M., & **Beltz, A. M.** (under review). *Neural networks and behavioral symptoms reveal sex-related patterns in adolescent multisite pain.*
- Hagy, H., Hidalgo-Lopez, E., El-Ayache, N., Holman, A., Schrepf, A., Clauw, D. J., Harte, S. E., **Beltz, A. M.**, Bohnert, A. M., & Kaplan, C. M. (under review). The emergence of sex differences in nociplastic pain during adolescence: A conceptual biopsychosocial model and opportunities for further investigation.
- Huang, S., MacLean, R. R., **Beltz, A. M.**, McClemon, F. J., Kozink, R. V., & Wilson, S. J. (under review). Sex differences in dorsal striatal volume and interest in quitting smoking.
- Kelly, D. P., Dzera, J., Demidenko, M. I., Weigard, A., Foster, K. T., & **Beltz, A. M.** (under first revision). Pubertal timing and daily alcohol use in adulthood: Insights into the experiences of late maturers. *Applied Developmental Science.*
- Pham, H. T., Berenbaum, S. A., DiLalla, L. F., Corley, R. P., Wadsworth, S. J., Reynolds, C., & **Beltz, A. M.** (under review). The long reach of puberty: Mechanisms underlying links between pubertal timing and adult psychological health.
- Yan, R., Chaku, N., Lopez-Duran, N., Deldin, P., & **Beltz, A. M.** (first revision under review). Gender matters for daily depression: Symptom fluctuations and links to self-expression. *Journal of Affective Disorders Reports.*
- Yan, R., Portengen, C. M., Chaku, N., & **Beltz, A. M.** (under review). Average links between daily gender expression and depressive symptoms do not describe individual adolescents.

In preparation:

- Becker, H., Hardi, F. A., Bilek, E., Phan, K. L., **Beltz, A. M.**, Monk, C. S., & Fitzgerald, K. D. (in prep). Change in patterns of functional connectivity after treatment for youth with anxiety disorders: An fMRI randomized clinical trial.
- Beltz, A. M.**, Pham, H., Smith, T., *Hidalgo-Lopez, E.*, Becker, H., Hetizeg, M., Kaplan, C., & Berenbaum, S. A. (in prep). On the (mis)use of puberty data in the ABCD Study: A systematic review, problem illustration, and path forward.
- Beltz, A. M.**, Yan, R., *Hidalgo-Lopez, E.*, Weigard, A. S., & Chaku, N. (invited paper in prep). Gender “in the wild:” Toward a person-specific behavioral neuroendocrinology. *Biology of Sex Differences*.
- Chaku, N., Kaplan, C., Foster, K. T., Lopez-Duran, N., Deldin, P., & **Beltz, A. M.** (in prep). The relation between working memory and daily internalizing behaviors is differentially dependent upon pubertal timing for men and women.
- Pletzer, B., Hausinger, T., Thoms, N., Gierg, C., & **Beltz, A. M.** (in prep). Menstrual cycle variations in stress vulnerability and sociability are related to premenstrual mood symptoms and libido.
- Schock, A.-K., **Beltz, A. M.**, Hausinger, T., & Pletzer, B. (in prep). When does someone emerge as a leader or, let’s tell women about role congruity theory.
- Yan, R., Yang, T. A., Reece, G., *Hidalgo-Lopez, E.*, & **Beltz A. M.** (in prep). Hormonal intrauterine device use and three-dimensional mental rotation skills in women.

RESEARCH PRODUCTS (*Italics denote mentored trainee; ^ denotes joint authorship position*)

- Kaplan, C. Schrepf, A., Boehnke, K., He, Y., Smith, T., Williams, D., Bergmans, R., Voepel-Lewis, T., Hassett, A., Harris, R., Clauw, D., **Beltz, A.**, & Harte, S. (2023, November). *ABCD NDA Study: Risk factors for the development of multisite pain in children (#2455)*. doi: 10.15154/h6mn-n216
- Hidalgo-Lopez, E.*, Kaplan, C.^, & **Beltz, A. M.**^ (2023, June 13). Regions of interest for functional connectivity correlates of widespread pain in children [Methods]. doi: 10.17605/OSF.IO/FDJQU
- Beltz, A. M.**, Weigard, A. S., & Chaku, N. (2022, August 23). Intensive longitudinal assessment of inhibitory control for up to 100 occasions [Measurement instrument]. doi: 10.17605/OSF.IO/9YABR
- Beltz, A.**, Foster, K. T., & Loviska, A. (2020, July 7). eMOTION: An emoji-based emotion assessment [Measurement instrument]. doi: 10.17605/OSF.IO/ZM2B6
- Beltz, A. M.**, & Kelly, D. P. (2020, July 2). Intensive longitudinal assessment of mental rotations for up to 75 occasions [Measurement instrument]. doi: 10.17605/OSF.IO/M6AE8
- Beltz, A. M.**, & Kelly, D. P. (2020, July 2). Intensive longitudinal assessment of verbal recall for up to 75 occasions [Measurement instrument]. doi: 10.17605/OSF.IO/VHR7U
- Beltz, A. M.**, Moser, J. S., & Fallis, J. S. (2020). [Cover image for Special issue: The Year in Cognitive Neuroscience]. *Annals of the New York Academy of Sciences*, 1464(1), i. doi: 10.1111/nyas.14351
- Lane, S., Gates, K. M., Fisher, Z., Arizmendi, C., & Molenaar, P. C. M. (2021, August 19). *gimme: Group Iterative Multiple Model Estimation*. An R package. (Version 0.6-1). [Computer software]. Chapel Hill, North Carolina. Available from <https://cran.r-project.org/web/packages/gimme/>. **Beltz, A. M.** [consultant to project]: subgrouping, multiple solutions, hemodynamic response function.
- Beltz, A. M.**, Dotterer, H. L., & Goetschius, L. G. (2019, May 9). *GIMME preprocessing: Initial release* (Version v1.0). Zenodo. doi: 10.5281/zenodo.2692522

PRESS COVERAGE

Expert opinion provided for: *Healthline* (2022), *Washington Post* (2023), *Mind & Matter* podcast (2023) *Contraceptive Technology Update* (2024), *Let’s Talk About Women* podcast (2024), *Nature & Nurture* podcast (2024), *The Michigan Daily* (2024)

Becker, Beltz, Himle, Ableson, Russman Block, Taylor, & Fitzgerald (2023) covered by: *Medical Xpress*, *Mirage News*

Weigard, Loviska, and Beltz (2021) covered by: *The TODAY Show, Forbes, More Than a Feeling* podcast, *Daily Mail, International Business Times, The Hill, Deutsche Welle, Spektrum, Azione, WGN 720 News, and Michigan News*

Beltz, Loviska, and Weigard (2021) covered by: *BlogHer*

Nielson and Beltz (2021) covered by: *Contraceptive Technology Update*

Dotterer, Hyde, Shaw, Rodgers, Forbes, and Beltz (2020) covered by: *PsyPost*

Beltz, Loviska, and Kelly (2019) covered by: *Contraceptive Technology Update* and *PsyPost*

Berenbaum, Beltz, Bryk, and McHale (2018) covered by: *Science Daily*

Beltz, Hampson, and Berenbaum (2015) covered by: *Daily Mail, The Mirror, Contraceptive Technology Update*

Beltz, Swanson, and Berenbaum (2011) covered by: *LiveScience* and *Science Daily*

INVITED TALKS AND WORKSHOPS

Beltz, A. M. (2024, November). *Revealing heterogeneity in functional neural networks*. Invited presentation to be given at the Texas A&M Institute for Neuroscience, College Station, TX.

Beltz, A. M. (2024, September). *Hormonal contraceptives and behavior: The potent state of the nascent neuroscience*. Invited presentation for the Ann S. Bowers Women's Brain Health Initiative Seminar Series, virtual.

Beltz, A. M. (2024, July). *Integrating sex and gender in behavioral neuroendocrinology*. Invited presentation for the Canadian Organization for Gender and Sex Research, virtual.

Beltz, A. M. (2024, February). *GIMME: Group iterative multiple model estimation*. Invited workshop at the Department of Psychiatry and Psychotherapy, University of Tübingen, Germany.

Beltz, A. M. (2024, February). *Hormonal contraceptives and behavior: Developmental perspectives on a nascent science*. Invited presentation at the Women's Mental Health Across the Reproductive Years international research training group, University of Tübingen, Germany.

Beltz, A. M. (2023, June). *Hormonal contraceptives and behavior: The potent state of the nascent science*. Invited keynote at the Society for Behavioral Neuroendocrinology annual meeting, Tours, France.

Becker, J., **Beltz, A. M.**, Wright, E. C., & Rigney, N. A. (2023, June). *Incorporating sex as a biological variable in your research*. Invited workshop at the Society for Behavioral Neuroendocrinology annual meeting, Tours, France.

Beltz, A. M. (2023, March). *Round table discussion*. Invited panelist at Mind the Gap: Hormonal Contraceptives and Brain Health sponsored by the Women's Health Research Cluster, virtual.

Beltz, A. M. (2023, March). *From general inferences to specific effects: Evaluating research on hormonal contraceptives and cognition*. Invited presentation at Mind the Gap: Hormonal Contraceptives and Brain Health sponsored by the Women's Health Research Cluster, virtual.

Beltz, A. M. (2023, January). *Assessing the psychological correlates of hormonal contraceptive use in unique women: A workshop on study design*. Invited presentation at Mind the Gap: Hormonal Contraceptives and Brain Health conference sponsored by the Women's Health Research Cluster, virtual.

Beltz, A. M. (2022, October). *The psychological correlates of hormonal contraceptive use: General trends and individual differences from puberty to menopause*. Invited presentation at the inter-institutional LIFE Course Academy, Berlin, Germany.

Beltz, A. M. (2022, May). *Intensive longitudinal methods for studying multidimensional developmental processes*. Discussant for symposium at the Association for Psychological Science annual convention, Chicago, IL.

Beltz, A. M. (2022, March). *Intensive longitudinal data analysis with group iterative multiple model estimation (GIMME)*. Invited presentation given at the Causal Inference from Longitudinal Data

Workshop sponsored by the Jacobs Foundation and the Canadian Institute for Advanced Research, virtual.

- Beltz, A. M.** (2022, February). *From average differences to different from average: When gender matters for emotion and anxiety*. Invited presentation for the Ann Arbor District Library “Exploring the Mind” Community Talk, virtual.
- Beltz, A. M.** (2021, June). *Putting the i in gender: Person-specific analyses of psychopathology and cognition*. Invited presentation at the LEAD Graduate School & Research Network at the University of Tübingen, virtual.
- Beltz, A. M.** (2020, October). *Finding the “i” in ovary: Person-specific models of neuroendocrine-linked brain function and behavior*. Invited presentation at the Jacobs Laboratory at the University of California Santa Barbara, virtual.
- Beltz, A. M.** (2019, November). *Gender differences in the brain and behavior: The role of prenatal and pubertal sex hormones*. Invited presentation at the Mariani Foundation for Paediatric Neurology course on Developmental Cognitive/Behavioural Neuroscience and Gender Differences: Normality and Pathology, Milan, Italy.
- Beltz, A. M.** (2019, April). *Beyond the average Joe and mean girls: Intra-individual variation in gendered phenomena*. Invited presentation at the Michigan State University Social / Personality Forum, East Lansing, MI.
- Beltz, A. M.** (2018, October). *Beyond the average Joe and mean girls: Studying intra-individual variation in gendered phenomena*. Invited presentation at the Gender Development Research Conference, San Francisco, CA.
- Beltz, A. M.** (2018, August). *Oral contraceptives and cognition: A methodological perspective*. Invited presentation at the American Psychological Association annual convention, San Francisco, CA.
- Beltz, A.** (2018, April). *SRA Emerging Scholars Committee event: Analyzing intensive longitudinal data with group iterative multiple model estimation (GIMME)*. Invited workshop at the Society for Research on Adolescence biennial meeting, Minneapolis, MN.
- Beltz, A. M.** (2017, February). *Network analysis of clinical time series data*. Invited presentation at the Michigan State University Clinical Science Forum, East Lansing, MI.
- Gates, K. M., & **Beltz, A. M.** (2016, June). *An Introduction to fMRI connectivity mapping with GIMME*. Invited colloquium at the Multimodal Neuroimaging Training Program, Pittsburgh, PA.
- Beltz, A. M.**, & Gates, K. M. (2016, June). *Extensions of GIMME: How to handle subgroups, multiple solutions, correlated residuals, and non-stationarity*. Invited colloquium at the Multimodal Neuroimaging Training Program, Pittsburgh, PA.
- Gates, K. M., **Beltz, A. M.**, & Molenaar, P. C. M. (2016, March). *Connectivity mapping with GIMME in Matlab and R: A practical guide*. Invited workshop at the Georgia Institute of Technology, Atlanta, GA.
- Molenaar, P. C. M., Gates, K. M., & **Beltz, A. M.** (2016, March). *fMRI connectivity mapping: The state of the science to assess individual differences in brain processes*. Invited colloquium at the Georgia Institute of Technology, Atlanta, GA.

PROFESSIONAL SERVICE

Scientific Working Group

2024- **Ann S. Bowers Women’s Brain Health Initiative**, Chair of the Hormone-based Medications working group

Associate editor:

2020-2025 **Journal of Research on Adolescence**

2018- **Multivariate Behavioral Research**

Topic editor:

2021-2023 **Journal of Neuroscience Research**

Special issue editor:

2023-2025 **Hormones and Behavior**, "Nuance and novelty in the behavioral neuroendocrinology of hormonal contraceptives"

Statistical consulting editor:

2021- **The Journal of Child Psychology and Psychiatry**

2019- **Child Development**

Editorial board member:

2024- **Biology of Sex Differences**

2023- **Journal of Neuroscience Research**

2018-2020 **Journal for Research on Adolescence**

2017- **Advances in Methods and Practices in Psychological Science**

2016- **Hormones and Behavior**

International conference organizer:

2018 **Society for Research in Child Development Special Topic Conference on the Use of Secondary and Open Source Data in Developmental Science (DEVSEC)**
Executive Organizing Committee Member

Federal grant reviewer:

2023 **National Institutes of Health**, Understanding Chronic Conditions Understudied Among Women Special Emphasis Panel (SEP)

2022-2023 **National Science Foundation**, Developmental Sciences Advisory Panel member

2022 **National Institutes of Health**, Biobehavioral and Behavioral Sciences Study Section

2020 **The Dutch Research Council (NWO)**, external reviewer

2017 **National Science Foundation**, Social Psychology Program Research Proposal

2014-2015 **National Science Foundation**, Graduate Research Fellowships Program

International conference submission reviewer:

2018 **Society for Research on Adolescence** biennial meeting

2015 **Organization for Human Brain Mapping** annual meeting

2015-2020 **Society for Research in Child Development** biennial meeting

Leader in professional societies and organizations:

2024 **Awards committee member**, Organization for the Study of Sex Differences

2008-2009 **Psi Chi president** at Saint Joseph's University chapter

2007-2008 **Psi Chi treasurer** at Saint Joseph's University chapter

Journal ad hoc reviewer:

ongoing *Proceedings of the National Academy of Sciences, The American Journal of Psychiatry, Frontiers in Neuroendocrinology, Psychological Science, Journal of Neuroscience Research, Current Opinion in Behavioral Sciences, Multivariate Behavioral Research, Advances in Methods and Practices in Psychological Science, Child Development, Developmental Psychology, Journal of Adolescent Health, Journal of Research on Adolescence, NeuroImage, Cerebral Cortex, Human Brain Mapping, Psychoneuroendocrinology, Hormones and Behavior, Scientific Reports, Endocrine, Addictive Behaviors, International Journal of Psychophysiology, Journal of the International Neuropsychological Society, Journal of Psychosomatic Research, Journal of*

Personality, Learning and Individual Differences, Frontiers in Human Neuroscience, Sex Roles, Adaptive Human Behavior and Physiology, Andrologia, Computers and Electrical Engineering

Internal leadership:

- 2024- **Department Executive Committee**, member
- 2024- **Department LSA Collegiate Fellows (LCF) and Michigan Program for Advancing Cultural Transformation (MPACT) search committee**, member
- 2024- **Department developmental science faculty search committee**, member
- 2023-2024 **Department Lecturer III quantitative methodology search committee**, chair
- 2020-2022 **Quantitative Methods in the Social Sciences**, steering committee member
- 2019 & 2024 **Department Augmented Executive Committee**, member
- 2019- **Eisenberg Family Depression Center**, LINC committee member
- 2016- **Methods Hour**, founder and organizer at the University of Michigan

Internal invited talks and workshops:

- Beltz, A. M.** (2024, July). *On the study of sex as a biological variable*. Invited presentation at the University of Michigan Chronic Pain and Fatigue Research Center Short Course on Pain, Ann Arbor, MI.
- Beltz, A. M.** (2024, May). *GIMME: Group iterative multiple model estimation*. Invited workshop at the University of Michigan Chronic Pain and Fatigue Research Center, Ann Arbor, MI.
- Beltz, A. M.** (2023, October). *Hormonal contraceptives and behavior: Developmental perspectives on a nascent science*. Invited presentation at the University of Michigan developmental area brownbag, Ann Arbor, MI.
- Beltz, A. M.** (2023, August). *The psychology of hormonal contraceptives*. Invited Faculty Forum presentation at Camp Michigania by the Alumni Association of the University of Michigan, Boyne City, MI.
- Beltz, A. M.** (2023, August). *The long arm of puberty: Potential lasting impacts of adolescent experiences*. Invited Faculty Forum presentation at Camp Michigania by the Alumni Association of the University of Michigan, Boyne City, MI.
- Kaplan, C. M., & **Beltz, A. M.** (2022, October). *Behavioral and neurobiological predictors of widespread pain in early adolescence and sex-specific trajectories of pain during puberty*. Invited presentation at the University of Michigan Neuroimaging Initiative BOLD Ideas Forum, Ann Arbor, MI.
- Beltz, A. M.** (2022, August). *Basic statistics primer*. Invited presentation at the University of Michigan Training Course in fMRI, Ann Arbor, MI.
- Beltz, A. M.** (2022, July). *The psychology of hormonal contraceptives: Empowering women through personalization*. Invited Faculty Forum presentation at Camp Michigania by the Alumni Association of the University of Michigan, Boyne City, MI.
- Beltz, A. M.** (2022, July). *From average differences to different from average: When gender matters for emotion*. Invited Faculty Forum presentation at Camp Michigania by the Alumni Association of the University of Michigan, Boyne City, MI.
- Beltz, A. M.** (2021, August). *Basic statistics primer*. Invited presentation at the University of Michigan Training Course in fMRI, virtual.
- Beltz, A. M.** (2020, November). *Coffee chat with Dr. Adriene Beltz*. Invited presentation at the University of Michigan Quantitative Methods in the Social Sciences Speaker Series, virtual.
- Beltz, A. M.** (2020, March). *GIMME: Group iterative multiple model estimation*. Invited presentation in the University of Michigan Neuroimaging Initiative – Methods group, Ann Arbor, MI.
- Beltz, A. M.** (2018, November). *Person-specific temporal networks: Accuracy, dynamics, and emojis*. Invited presentation in the University of Michigan Institute for Data Science (MIDAS) Speaker Series, Ann Arbor, MI.

- Beltz, A. M.** (2018, November). *Oral contraceptives and cognition: A methodological perspective on heterogeneity*. Invited presentation at the University of Michigan Decision Consortium, Ann Arbor, MI.
- Beltz, A. M., Dotterer, H., Weigard, A., Duffy, K., & Cohen, J.** (2018, September). *Estimating time-varying networks with GIMME: A description and application*. Invited presentation at the University of Michigan fMRI Symposium, Ann Arbor, MI.
- Beltz, A. M.** (2018, May). *Studying gendered psychological processes with person-specific temporal networks*. Invited presentation at ICOS Big Data Summer Camp, Ann Arbor, MI.
- Beltz, A. M., & Dotterer, H. L.** (2017, November). *Leveraging a between-person grouping algorithm to estimate within-person brain dynamics*. Invited presentation at the University of Michigan cognition and cognitive neuroscience area brownbag, Ann Arbor, MI.
- Beltz, A. M., & Molenaar, P. C. M.** (2017, May). *GIMME*. Invited workshop by the inter-institutional LIFE Course Program, Ann Arbor, MI.
- Beltz, A. M.** (2017, February). *The development of i*. Invited presentation at the University of Michigan developmental area brownbag, Ann Arbor, MI.
- Beltz, A. M.** (2016, October). *Connectivity mapping with insights into development*. Invited presentation at the University of Michigan developmental area brownbag, Ann Arbor, MI.
- Beltz, A. M.** (2016, October). *Network analysis of clinical data*. Invited presentation at the University of Michigan clinical science area brownbag, Ann Arbor, MI.
- Beltz, A. M.** (2014, April). *Connectivity mapping with GIMME*. Invited workshop at the Pennsylvania State University Academic and Experimental Organization for Neuroscience Students, University Park, PA.
- Beltz, A. M.** (2012, February). *Gender differences in STEM careers*. Invited presentation at the Pennsylvania State University Graduate Women in Science during Women in Science, Technology, Engineering, and Mathematics Week, University Park, PA.

PROFESSIONAL ASSOCIATIONS AND AFFILIATIONS

Affiliate

American Psychological Association
 Association for Psychological Science
 International Society for the Study of Behavioral Development
 New York Academy of Sciences
 Organization for Human Brain Mapping
 Organization for the Study of Sex Differences
 Society for Behavioral Neuroendocrinology
 Society for Research in Child Development
 Society for Research on Adolescence

Inductee

Alpha Epsilon Lambda, *National Interdisciplinary Graduate Honor Society*
 Phi Beta Kappa, *National Liberal Arts Honors Society*
 Psi Chi, *International Honor Society in Psychology*
 Sigma Xi, *National Interdisciplinary Scientific Research Society*

TEACHING

- 2020 & 2021 **Data, Distributions, and Decisions: The Science of Statistics**
 Michigan Math and Science Scholars: High School Summer Program
- 2019 **The Behavioral Neuroscience of Puberty**
- 2017 & **Advanced Research Methods and Statistics I** (graduate)
- 2020-2021
- 2018 & **Advanced Research Methods and Statistics II** (graduate)

2021-2022
 2017-2024 **Methods Hour** (graduate)
 2015 **Introductory Psychology**
 2013-2024 **Guest lecturer**
 Analyzing Multivariate Data (graduate)
 Big Data Boot Camp
 Biocontextual Developmental Training Grant Seminar (graduate)
 Biology Brain, and Behavior: The Developing Child
 Developmental Neuroscience of Human Behavior (graduate)
 Developmental Psychology
 Developmental Psychology Proseminar (graduate)
 fMRI Data Analysis (graduate)
 Gender and Development (graduate)
 LIFE Course
 Person-Specific Data Analysis (graduate)

MENTORING (+ denotes post-doctoral scholar)

Faculty mentor:

2024- **Alexander Wasserman**, Lecturer III

Primary mentor:

2024- **Christel Portengen**⁺
 2023- **Esmeralda Hidalgo-Lopez**⁺
 2021- **Ran (Rachel) Yan**
 2020-2022 **Natasha Chaku**⁺
 2020-2022 **Matthew Nielson**⁺
 2018-2021 **Alexander Weigard**⁺
 2017-2022 **Dominic Kelly**

Secondary mentor:

2021- **Yue (Linda) Zhang**
 2017-2022 **Michael Demidenko**

Dissertation committees:

ongoing **Bryna Goeckner** (Medical College of Wisconsin), external member
 ongoing **Lindzey Hoover**, member
 ongoing **Niloufar Pouyan** (Neuroscience), cognate
 ongoing **Hannah Becker**, member
 ongoing **Felicia Hardi**, member
 2022 **Michael Demidenko**, member
 2022 **Dominic Kelly**, chair
 2022 **Carissa Wengrovius** (Kinesiology), cognate
 2021 **Kevin Constante-Toala**, member
 2021 **Hailey Dotterer**, member
 2021 **Leigh Goetschius**, member
 2021 **Andrea Scheuringer** (University of Salzburg), discussant
 2020 **Alexa Ellis**, member
 2018 **Katherine Foster**, member

Senior and honor's theses:

2024- **Hong Zuan (Valerie) Huang**, honors thesis mentor
 2019-2020 **Elizabeth Le** (Neuroscience), honors thesis mentor
 2019-2020 **Zoe Solomon**, senior thesis mentor

Training grant mentor:

2023-	Olivia Varney-Chang
2023-	Hannah Becker
2022-	Katherine Ross
2021-2023	Felicia Hardi
2020-2022	Natasha Chaku⁺
2020-2022	Matthew Nielson⁺
2020-2022	Averill Cantwell
2020-2022	Jennifer Cleary
2019-2021	Michael Demidenko
2018-2021	Alexander Weigard⁺
2018-2020	Leigh Goetschius
2017-2019	Kevin Constante-Toala
2017-2019	Petal Grower
2017-2018	Melissa Peckins⁺

ORAL PRESENTATIONS (*Italics denote mentored trainee*)

-
- Beltz, A. M.**, Pham, H., Smith, T., *Hidalgo-Lopez, E.*, Becker, H., Heitzeg, M., Kaplan, C. M., & Berenbaum, S. A. (2024, June). *On the use of puberty data in the ABCD Study: A systematic review and empirical illustration*. Presentation at the International Society for the Study of Behavioral Development biennial meeting, Lisbon, Portugal.
- Kelly, D. P., Weigard, A. S., & **Beltz, A. M.** (2024, June). *Heterogeneity in the daily link between affect and cognition: Is intra-individual variability a trait?* Presentation at the Society for Ambulatory Assessment annual meeting, Ann Arbor, MI.
- Boele, S., Bülow, A., **Beltz, A. M.**, de Haan, A., Denissen, J. J. A., de Moor, M. H. M., & Keijsers, L. (2023, October). Family-specific networks of daily adolescent affect and perceived parenting. Presentation at the Emotions 2023 conference, Tilburg, The Netherlands.
- Beltz, A. M.**, Bürger, Z., Lacasse, J., & Tronson, N. (2023, June). *A conversation about hormonal contraceptives, behavior, and the brain*. Science and Society round table at the Society for Behavioral Neuroendocrinology annual meeting, Tours, France.
- Chaku, N.*, & **Beltz, A. M.** (2023, April). *Daily inhibitory control matters for adolescent behavior: A temporal network perspective*. Poster blitz presentation at the Society for Research on Adolescence annual meeting, San Diego, CA.
- Yan, R.*, *Portengen, C.*, *Chaku, N.*, Lopez-Duran, N., & **Beltz, A. M.** (2023, April). *Heterogeneity in daily relations between gender expression and depression: Findings from a 100-day study of adolescence*. Poster blitz presentation at the Society for Research on Adolescence annual meeting, San Diego, CA.
- Kelly, D. P., Chaku, N., & **Beltz, A. M.** (2023, March). *Cognition in the classroom: The potential of daily assessments for individual learners*. Presentation at the Modeling Individual Differences in Education meeting, Zurich, Switzerland.
- Beltz, A. M.**, *Chaku, N.*, *Yan, R.*, Kelly, D. P., Zhang, Z., Lopez-Duran, N., & Weigard, A. (2022, June). *Daily inhibition, risk-taking, and puberty: An adolescent behavioral network perspective*. Presentation at the International Society for the Study of Behavioral Development biennial meeting, Rhodes, Greece.
- Chaku, N.*, *Yan, R.*, Kelly, D. P., Zhang, Z., Lopez-Duran, N., Weigard, A., & **Beltz, A. M.** (2022, May). *100 days of adolescence: Daily executive function provides novel insights into adolescent behavior*. Presentation at the Association for Psychological Science annual convention, Chicago, IL.
- Kelly, D. P., & **Beltz, A. M.** (2022, May). *Describing me today: The person-specificity of relations between cognition and personality over 75 days*. Flash talk at the Association for Psychological Science annual convention, Chicago, IL.

- Hardi, F., Goetschius, L. G., McLoyd, V. C., Lopez-Duran, N. L., Mitchell, C., Hyde, L. W., **Beltz, A.**, Monk, C. S. (2021, April). *Adolescent data-driven functional network connectivity prospectively predict adult anxiety symptoms related to COVID-19 economic adversity*. Presentation at the NIH Social, Behavioral, and Economic (SBE) Health Impacts of COVID-19 Initiative Grant Results Webinar, virtual.
- Hardi, F. A., Goetschius, L. G., McLoyd, V. C., Lopez-Duran, N., Mitchell, C., Hyde, L. W., **Beltz, A. M.**, Monk, C. S. (2021, December). *Adolescent data-driven neural networks prospectively predict adult anxiety symptoms related to COVID-19 economic adversity*. Presentation at the annual meeting of the American College of Neuropsychopharmacology, San Juan, Puerto Rico.
- Chaku, N., Kaplan, C., Foster, K. T., & **Beltz, A. M.** (2021, March). *Working memory and daily internalizing symptoms: Pubertal timing moderates adult relations*. Presentation at the Society for Research on Adolescence biennial meeting, virtual.
- Goetschius, L. G., Hein, T. C., McLanahan, S. S., Brooks-Gunn, J., McLoyd, V. C., Dotterer, H. L., Lopez-Duran, N. L., Mitchell, C., Hyde, L. W., Monk, C. S., & **Beltz, A. M.** (2020, December). *Childhood violence exposure predicts adolescent neural network sparsity*. Presentation at the American College Neuropsychopharmacology Annual Meeting, virtual.
- Weigard, A., Loviska, A., & **Beltz, A.** (2020, October). *Ovarian hormones and daily emotional variability: Little evidence for differences between the endogenous menstrual cycle and exogenous oral contraceptive use*. Presentation at the Society for Psychophysiological Research annual meeting, virtual.
- Karthikeyan, G., **Beltz, A. M.**, & Brang, D. (2019, October). *Building generalizable cognitive models using ECoG: An improvised technique for group-level analysis*. Nanosymposium presentation at the Society for Neuroscience annual meeting, Chicago, IL.
- Simmonite, M., Khammash, D., **Beltz, A.**, & Polk, T. (2019, October). *Reliable, person-specific functional architecture derived from Human Connectome Project task data*. Nanosymposium presentation at the Society for Neuroscience annual meeting, Chicago, IL.
- Beltz, A. M.** (2018, October). *Comments and future directions on open fMRI data analysis*. Presentation at the Society for Research in Child Development Special Topic Conference on the Use of Secondary and Open Source Data in Developmental Science, Phoenix, AZ.
- Beltz, A. M.**, Loviska, A. M., Foster, K. T., & Kelly, D. P. (2018, May). *Behavioral networks in oral contraceptive users: Exploring ovarian hormone links to gendered cognition and personality qualities*. Presentation at the Association for Psychological Science annual meeting, San Francisco, CA.
- Beltz, A. M.**, & Dotterer, H. L. (2018, May). *Leveraging a between-person grouping algorithm to estimate within-person brain dynamics*. Presentation at the Modern Modeling Methods annual conference, Storrs, CT.
- Beltz, A.** (2018, April). *Pubertal timing is related to adolescent depressive symptoms via gendered mechanisms*. Presentation at the Society for Research on Adolescence biennial meeting, Minneapolis, MN.
- Morris, A., **Beltz, A.**, Guyer, A., Silk, J., Squeglia, L., & Tezler, E. (2018, April). *Integrating neuroimaging with developmental research to better understand risk and resilience processes in adolescence*. Roundtable at the Society for Research on Adolescence biennial meeting, Minneapolis, MN.
- Berenbaum, S. A., & **Beltz, A. M.** (2017, November). *From genes to behavior through sex hormones & socialization: The example of gender development*. Presentation at the TWINS Congress, Madrid, Spain.
- Beltz, A. M.**, Acharya, R., Graber, J. A., Nixon, S. J., & Lynne-Landsman, S. D. (2017, April). *Puberty influences reward-related neural connectivity: Girls with early versus typical maturation*. Paper presentation at the Society for Research in Child Development biennial meeting, Austin, TX.
- Wright, A. G. C., **Beltz, A. M.**, Gates, K. M., Molenaar, P. C. M., & Simms, L. J. (2016, October). *Examining the dynamic structure of daily internalizing and externalizing behavior at multiple levels*

of analysis. Presentation at the Association for Behavioral and Cognitive Therapies annual convention, New York City, NY.

- Beltz, A. M.**, Hallquist, M. N., Calabro, F. J., Molenaar, P. C. M., Luna, B. (2016, September). *Intra-individual time-varying network connectivity provides insight into functional brain development*. Presentation at the Developmental Methods Conference, Whitefish, MT.
- Beltz, A. M.** (2016, August). *Prenatal androgen effects on behavioral and neural networks: Insights from females with congenital adrenal hyperplasia*. Presentation at the Society for Behavioral Neuroendocrinology annual meeting, Montréal, Quebec, Canada.
- Beltz, A. M.**, & Wright, A. G. C. (2016, May). *The potential of unified structural equation modeling (uSEM) for personalized medicine: Personality pathology as a model system*. Presentation at the International Society for Pharmacoeconomics and Outcomes Research, Washington, D.C.
- Wright, A. G. C., Gates, K. M., **Beltz, A. M.**, Molenaar, P. C. M., & Simms, L. J. (2015, June). *Using Group Iterative Multiple Model Estimation (GIMME) to study dynamic individual structures in ambulatory assessment data of psychiatric patients*. Presentation at the Society for Ambulatory Assessment meeting, University Park, PA.
- Morales, S., Shewark, E., **Beltz, A.**, Molenaar, P., & Buss, K. (2015, March). *The utility of unified structural equation modeling (uSEM) for the study of regulation and dysregulation of fear*. Presentation at the Society for Research in Child Development biennial meeting, Philadelphia, PA.
- Molenaar, P. C. M., & **Beltz, A. M.** (2013, October). *Dynamic factor analysis of nonstationary processes*. Presentation at the Society of Multivariate Experimental Psychology annual meeting, St. Petersburg, FL.
- Beltz, A. M.**, Lam, C. B., McHale, S., & Berenbaum, S. A. (2011, April). *Links between gendered socialization and sex hormones*. Presentation at the Society for Research in Child Development biennial meeting, Montréal, Quebec, Canada.
- Beltz, A. M.**, & Murray, C. S. (2009, April). *A comprehensive analysis of gender differences in attachment*. Presentation at the Geis Student Research on Women Conference, Newark, DE.

POSTER PRESENTATIONS (*Italics denote mentored trainee*)

- Chang, S.-E., Liu, Y., Höbler, F., *Becker, H.*, Angstadt, M., & **Beltz, A.** (2024, October). *Subgroup-level functional connectivity of the M1 inter-effector areas differentiating stuttering and non-stuttering children*. Poster presentation at the Society for the Neurobiology of Language Conference, Brisbane, Australia.
- Yan, R., Yang, T. A., *Hidalgo-Lopez, E.*, Reece, G., & **Beltz, A. M.** (2024, June). *Hormonal intrauterine device use and three-dimensional mental rotation skills in women*. Poster presentation at the Society for Behavioral Neuroendocrinology annual meeting, Columbus, OH.
- Portengen, C. M.*, & **Beltz, A. M.** (2024, June). *Daily variability in parental acceptance and conflict is associated with adolescent academic well-being*. Poster presentation at the International Society for the Study of Behavioral Development biennial meeting, Lisbon, Portugal.
- Chang, S.-E., Liu, Y., Höbler, F., *Becker, H.*, *Caruso, V.*, Angstadt, M., & **Beltz, A. M.** (2024, June). *Distinct subgroup-level functional connectivity in stuttering and non-stuttering children*. Poster presentation at the Organization for Human Brain Mapping annual meeting, Seoul, South Korea.
- Hidalgo-Lopez, E.*, Smith, T., *Becker, H.*, Mindell, J. A., Angstadt, K. M., Schrepf, A., Williams, D. A., Clauw, D., Harte, S. E., Kaplan, C., & **Beltz, A.** (2024, May). *Sex differences in resting state neural networks underlying adolescent multisite pain*. Poster presentation at the Organization for the Study of Sex Differences annual meeting, Bergen, Norway.
- Becker, H.*, Smith, T., *Hidalgo-Lopez, E.*, Fitzgerald, K., Kaplan, C., & **Beltz, A.** (2024, April). *Early pubertal timing increases risk of conversion from anxiety to depression in adolescent girls*. Poster presentation at Anxiety & Depression Association of America annual conference, Boston, MA.

- Marks, R., Sun, X., Caballero, J., Bouhali, F., Kepinska, O., **Beltz, A.**, Hoeft, F., & Kovelman, I. (2024, April). *Individual differences in the emerging reading network: A CS-GIMME investigation of functional connectivity in beginning readers*. Poster presentation at the Cognitive Neuroscience Society annual meeting, Toronto, Ontario, Canada.
- Hidalgo-Lopez, E., Smith, T., Becker, H., Angstadt, M., Schrepf, A., Williams, D. A., Clauw, D., Harte, S. E., Kaplan C., & **Beltz, A.** (2024, April). *Resting state connectivity networks underpinning multisite pain in adolescent girls and boys*. Poster presentation at the United States Association for the Study of Pain annual meeting, Seattle, WA.
- Smith, T., Hidalgo-Lopez, E., Becker, H., Schrepf, A., Williams, D. A., Clauw, D., Harte, S. E., Mindell, J. A., **Beltz, A.**, & Kaplan C. (2024, April). *Sex differences in pain-related CNS-mediated symptom clusters in children with multisite pain*. Poster presentation at the United States Association for the Study of Pain annual meeting, Seattle, WA.
- Zhang, Y., Hardi, F., McLoyd, V. C., Lopez-Duran, N., Mitchell, C., Hyde, L. W., **Beltz, A. M.**, & Monk, C. S. (2023, September). *Examination of adolescent person-specific neural networks implicated in reward processing and internalizing symptoms*. Poster presentation at the Flux Congress, Santa Rosa, CA.
- Hardi, F. A., **Beltz, A. M.**, Tillem, S., McLoyd, V., Mitchell, C., Hyde, L. W., & Monk, C. S. (2023, September). *Person-oriented approaches identify distinct longitudinal associations of childhood adversity with adolescent functional brain networks and mental health*. Poster presentation at the Flux Congress 2023, Santa Rosa, CA.
- Zhang, Y., Hardi, F., McLoyd, V.C., Lopez-Duran, N., Mitchell, C., Hyde, L.W., **Beltz, A.M.**, & Monk, C.S. (2023, May). *Associations between person-specific reward processing neural networks and internalizing symptoms in adolescents*. Poster presentation at the Association for Psychological Science annual convention, Washington, D.C.
- Beltz, A.**, Smith, T., Becker, H., Schrepf, A., Boehnke, K., Williams, D., Clauw, D., Harte, S., & Kaplan, C. (2023, May). *Sex differences in the adolescent development of multisite pain*. Poster presentation at the Organization for the Study of Sex Differences, Calgary, Alberta, Canada.
- Reece, G., Chaku, N., & **Beltz, A. M.** (2023, April). *An investigation of real-world risk-related decision-making across adolescence*. Poster presentation at the Society for Research on Adolescence annual meeting, San Diego, CA.
- Rajagopal, S., **Beltz, A. M.**, Hampstead, B., & Polk, T. (2023, March). *Estimating individual trajectories of structural and cognitive decline in mild cognitive impairment*. Poster presentation at the Cognitive Neuroscience Society annual meeting, San Francisco, CA.
- Chaku, N., Qian, Y., Corley, R. P., Berenbaum, S. A., & **Beltz, A. M.** (2022, June). *Reliability and validity of retrospectively reported pubertal timing: Evidence from adolescence to adulthood*. Poster presentation at the International Society for the Study of Behavioral Development biennial meeting, Rhodes, Greece.
- Yan, R., Chaku, N., Lopez-Duran, N., Deldin, P., & **Beltz, A. M.** (2022, June). *Gender differences in 100-day depressive symptomatology in early and middle adulthood*. Poster presentation at the International Society for the Study of Behavioral Development biennial meeting, Rhodes, Greece.
- Kelly, D. P., & **Beltz, A. M.** (2022, May). *Describing me today: The person-specificity of relations between cognition and personality over 75 days*. Poster presentation at the Association for Psychological Science annual convention, Chicago, IL.
- Wengrovius, C., Zick, S., **Beltz, A. M.**, Wentz, E. E., Ulrich, D. A., & Robinson, L. E. (2022, May). *Relationships between parent-reported physical activity and facets of interoceptive awareness in children*. Poster presentation at the International Congress on Integrative Medicine and Health, Phoenix, AZ.
- Becker, H., **Beltz, A.**, Taylor, S., & Fitzgerald, K. D. (2022, April). *Changes in strength of brain network connections after cognitive behavioral therapy treatment for OCD in youth*. Poster presentation at the Society for Biological Psychiatry, New Orleans, LA.

- Kelly, D. P., Chaku, N., & Beltz, A. M. (2022, March). *Development through the eyes of emoji: Investigating associations of emoji use with personality and emotion*. Poster presentation at the Society for Research on Adolescence biennial meeting, New Orleans, LA.
- Yan, R., Zhang, Z., Chaku, N., & Beltz, A. M. (2022, March). *A role for mothers in the link between COVID-19 stress and adolescent mental health*. Poster presentation at the Society for Research on Adolescence biennial meeting, New Orleans, LA.
- Chaku, N., Kaplan, C., Foster, K.T., & Beltz, A. M. (2021, November). *Pubertal timing and gender moderate adult relations between working memory and daily internalizing behaviors*. Poster presentation at the International Society for Developmental Psychobiology meeting, Chicago, IL.
- Kelly, D., Dzera, J., Demidenko, M., Weigard, A., Foster, K., & Beltz, A. (2021, April). *Pubertal timing and daily adult alcohol consumption: Examining mediating effects of alcohol beliefs by gender*. Poster presentation at the Society for Research in Child Development biennial meeting, virtual.
- Russman Block, S., Klump, K. L., Winters, A., Beltz, A., Burt, S. A., & Moser, J. (2021, March). *Estradiol is protective against the negative impact of worry on cognitive control*. Poster presentation at the Anxiety and Depression Association of America Conference, virtual.
- Kaplan, C., Schrepf, A., Mawla, I., Ichescio, E., Boehnke, K., Rutherford, S., Beltz, A., Tsodikov, A., Williams, D., Hassett, A., Clauw, D., Harte, S., Harris, R. (2020, June). *Neurobiological evidence of pain vulnerability in children*. Poster presentation at the Organization for Human Brain Mapping annual meeting, virtual.
- Dzera, J., Kelly, D., Weigard, A., Demidenko, M. I., Stone, S., Foster, K. T., & Beltz, A.M. (2020, May). *Persisting effects of pubertal timing on alcohol expectancies and use in adulthood*. Poster presentation at the Association for Psychological Science annual meeting, virtual.
- Le, E., Weigard, A., & Beltz, A. M. (2020, May). *Daily affective complexity depends on emotional disposition and exogenous hormones*. Poster presentation at the Association for Psychological Science annual meeting, virtual.
- Solomon, Z., Kelly, D., & Beltz, A. M. (2020, May). *Gender and personality links to social media use: A partial replication and extension*. Poster presentation at the Association for Psychological Science annual meeting, virtual.
- Dotterer, H. L., Hyde, L. W., Shaw, D. S., Forbes, E. E., & Beltz, A. M. (2020, February). *Psychopathic traits are related to distinct patterns of neural connectivity at rest using a personalized directed connectivity approach in a diverse, low-income community sample*. Poster presentation at the annual meeting of the International Neuropsychological Society, Denver, CO.
- Reitz, E. L., Palmer, L. E., Beltz, A. M., Bryk, K. L., Bailey, J. M., & Berenbaum, S. A. (2020, February). *Variation in female sexual orientation: Biological and social correlates in Congenital Adrenal Hyperplasia*. Poster presentation at the Society for Personality and Social Psychology annual meeting, New Orleans, LA.
- Goetschius, L.G., Hein, T. C., McLananahan, S. S., Brooks-Gunn, J., McLoyd, V. C., Dotterer, H. L., Mitchell, C., Lopez-Duran, N. L., Hyde, L. W., Monk, C. S., & Beltz, A. M. (2019, September). *Childhood violence exposure and resting-state connectivity: Person-specific networks capture heterogeneity and some consistency*. Poster presentation at the FLUX Congress, New York, NY.
- Weigard, A., Beltz, A., & Heitzeg, M. M. (2019, June). *Timing of puberty and family history of alcoholism are independent predictors of late adolescent alcohol and marijuana use in males*. Poster presentation at the Research Society on Alcoholism annual meeting, Minneapolis, MN.
- Dotterer, H. L., Hyde, L. W., Shaw, D. S., Forbes, E. E., & Beltz, A. M. (2019, May). *Psychopathic traits are related to distinct patterns of neural connectivity at rest using a personalized directed connectivity approach in a diverse, low-income community sample*. Poster presentation at the biennial meeting of the Society for the Scientific Study of Psychopathy, Las Vegas, NV.
- Kelly, D., & Beltz, A. (2019, March). *Spatial ability and self-perceived masculinity are positively related in women but not in men*. Poster presentation at the Society for Research in Child Development biennial meeting, Baltimore, MD.

- Kelly, D., Loviska, A., & **Beltz, A.** (2019, March). *Validation of a 75-day intensive longitudinal measure of immediate and delayed paired verbal recall*. Poster presentation at the International Convention of Psychological Science annual meeting, Paris, France.
- Grower, P., Ward, L. M., & **Beltz, A.** (2018, October). *Downstream consequences of pubertal timing for women's body beliefs*. Poster presentation at the Gender Development Research Conference, San Francisco, CA.
- Loviska, A. M., & **Beltz, A. M.** (2018, October). *Daily fluctuations in gender identity and adjustment: Implications for person-oriented research*. Poster presentation at the Gender Development Research Conference, San Francisco, CA.
- Arredondo, M., Hu, X.S., Satterfield, T., Kovelman, I., & **Beltz, A.** (2018, October). *It's a GIMME": Data-driven connectivity mapping identifies monolingual vs. bilingual brain activity*. Poster presentation at the fNIRS 2018 biennial meeting, Tokyo, Japan.
- Foster, K. T., Hicks, B. M., & **Beltz, A. M.** (2018, September). *Precision medicine using functional dynamics clinical profiling: The case of internalizing and alcohol use problems*. Poster presentation at the Society for Research in Psychopathology, Indianapolis, IN.
- Foster, K. T., & **Beltz, A. M.** (2018, June). *Accounting for heterogeneity in alcohol use problems: Three person-oriented techniques*. Poster presentation at the Research Society on Alcoholism, San Diego, CA.
- Kelly, D., Loviska, A., **Beltz, A.** (2018, May). *Validation of a daily diary measure of three-dimensional mental rotations ability*. Poster presentation at the Association for Psychological Science annual meeting, San Francisco, CA.
- Loviska, A., Colton, Z., Kelly, D., **Beltz, A.** (2018, May). *No evidence for personality differences between oral contraceptive users and naturally cycling women: Implications for research on sex hormones*. Poster presentation at the Association for Psychological Science annual meeting, San Francisco, CA.
- Foster, K. T., Hicks, B. M., & **Beltz, A. M.** (2017, September). *Person-specific variation in the structure of affect and implications for affective disorders*. Poster presentation at the Society for Research in Psychopathology Conference, Denver, CO.
- Reitz, E. L., Groh, T. L., **Beltz, A. M.**, Bryk, K. L., McHale, S. M., & Berenbaum, S. A. (2017, April). *Gendered peer preferences in girls with prenatal androgen exposure: Effects of gender identity, activities, and temperament*. Poster presentation at the Society for Research in Child Development biennial meeting, Austin, TX.
- Zelle, S. L., **Beltz, A. M.**, Bryk, K. L. K., Wilson, S. J., & Berenbaum, S. A. (2016, November). *Prenatal androgen effects on neural processing of reward*. Poster presentation at the Society for Neuroscience annual meeting, San Diego, CA.
- Beltz, A. M.**, Gates, K. M., & Molenaar, P. C. M. (2016, June). *Selection of a hemodynamic response function influences task effects in connectivity maps*. Poster presented at the Organization for Human Brain Mapping annual meeting, Geneva, Switzerland.
- Bouwman, M. E. J., **Beltz, A. M.**, Bos, E. H., Oldehinkel, A. J., de Jonge, P., & Molenaar, P. C. M. (2016, March). *Dynamic interplay between melatonin, affect, and fatigue*. Poster presentation at the American Psychosomatic Society annual meeting, Denver, CO.
- Beltz, A. M.**, & Molenaar, P. C. M. (2015, June). *A posteriori validation of temporal lags used in directed functional connectivity maps*. Poster presentation at the Organization for Human Brain Mapping annual meeting, Honolulu, HI.
- Beltz, A. M.**, & Molenaar, P. C. M. (2015, June). *Mapping intra-individual time-varying connectivity with group iterative multiple model estimation*. Poster presentation at the Organization for Human Brain Mapping annual meeting, Honolulu, HI.
- Beltz, A. M.**, Molenaar, P. C. M., & Berenbaum, S. A. (2015, March). *Dynamic dyads: Behavioral maps reveal the time-varying nature of children's play*. Poster presentation at the Society for Research in Child Development biennial meeting, Philadelphia, PA.

- Beltz, A. M.**, Bryk, K., McHale, S., & Berenbaum, S. A. (2014, October). *Effects on STEM-related occupational interests of prenatal hormones and gendered socialization*. Poster presentation at the Gender Development Research Conference, San Francisco, CA.
- Beltz, A. M.**, & Berenbaum, S. A. (2014, August). *Behavioral mapping technique reveals prenatal androgen effects on dyadic play*. Poster presentation at the American Psychological Association annual convention, Washington, D.C.
- Corley, R. P., **Beltz, A. M.**, Wadsworth, S. J., & Berenbaum, S. A. (2014, June). *Augmenting pubertal Developmental Scale indicators with height in two genetically-informative longitudinal studies*. Poster presentation at the Behavior Genetics Association annual meeting, Charlottesville, VA.
- Beltz, A. M.**, Berenbaum, S. A., & Wilson, S. J. (2014, June). *Sex-related resting state brain function in cigarette smokers and links to behavior*. Poster presentation at the Organization for Human Brain Mapping annual meeting, Hamburg, Germany.
- Beltz, A. M.**, & Molenaar, P. C. M. (2014, June). *Dealing with equivalent solutions in effective connectivity analysis*. Poster presentation at the Organization for Human Brain Mapping annual meeting, Hamburg, Germany.
- Molenaar, P. C. M., & **Beltz, A. M.** (2014, June). *Individual differences in time-varying neural connectivity and smoking behavior*. Poster presentation at the Organization for Human Brain Mapping annual meeting, Hamburg, Germany.
- Wilson, S. J., **Beltz, A. M.**, Henry, S. L., Geier, C. F., Gilmore, R. O., Turrisi, R. J., & Berenbaum, S. A. (2013, June). *Neurocognitive processing in relation to alcohol use across the early years of college*. Poster presentation at the Research Society on Alcoholism annual meeting, Orlando, FL.
- Beltz, A. M.**, Beckerman, E., Bryk, K. L., McHale, S. M., & Berenbaum, S. A. (2013, April). *Prenatal androgen levels moderate links between gender identity and adjustment*. Poster presentation at the Society for Research in Child Development biennial meeting, Seattle, WA.
- Beltz, A. M.**, & Berenbaum, S. A. (2013, April). *Prenatal androgen influences on childhood dyadic play: Insights from behavioral network mapping*. Poster presentation at the Society for Research in Child Development biennial meeting, Seattle, WA.
- Beltz, A. M.**, Corley, R. P., Bricker, J. B., & Berenbaum, S. A. (2013, April). *Modeling pubertal development and examining links to behavior problems*. Poster presentation at the Society for Research in Child Development biennial meeting, Seattle, WA.
- Beltz, A. M.**, & Berenbaum, S. A. (2012, June). *Examining the organizational effects of pubertal timing on cognition and adjustment in young adults*. Poster presentation at the Society for Behavioral Neuroendocrinology annual meeting, Madison, WI.
- Beltz, A. M.**, Bryk, K. L., & Berenbaum, S. A. (2012, June). *Dose-dependent prenatal androgen influences on gender development in girls with congenital adrenal hyperplasia*. Poster presentation at the Society for Behavioral Neuroendocrinology annual meeting, Madison, WI.
- Beltz, A. M.**, Berenbaum, S. A., & McHale, S. M. (2012, April). *Links among friendship, gendered activities, and adjustment: Evidence from adolescent girls with congenital adrenal hyperplasia*. Poster presentation at the Gender Development Research Conference, San Francisco, CA.
- Beltz, A. M.**, Beekman, C., Molenaar, P. C. M., & Buss, K. A. (2012, February). *It's about time: Revealing the dynamic interplay among children's exuberance characteristics in unstructured group play*. Poster presentation at the Society for Research in Child Development Themed Meeting: Developmental Methodology, Tampa, FL.
- Beltz, A.**, Engels, A., Wilson, S., Gates, K., Molenaar, P., Pulido, C., Abar, C., Read, A., Fesi, J., Lemieux, S., Tapert, S., Turrisi, R., Berenbaum, S., & Gilmore, R. (2011, June). *fMRI connectivity mapping in first year students reveals neural networks engaged by alcohol cues*. Poster presentation at the Organization for Human Brain Mapping annual meeting, Quebec City, Quebec, Canada.
- Beltz, A. M.**, McArdle, J. J., & Berenbaum, S. A. (2011, April). *Hormonal influences on developmental change in gendered activities*. Poster presentation at the Society for Research in Child Development biennial meeting, Montréal, Quebec, Canada.

- Beltz, A. M.,** Bryk, K. L., Quigley, C. A., & Berenbaum, S. A. (2010, July). *Examining Y chromosome effects on human sex-typed behavior*. Poster presentation at the Society for Behavioral Neuroendocrinology annual meeting, Toronto, Ontario, Canada.
- Beltz, A. M.,** Berenbaum, S. A., Bryk, K. L., & Swanson, J.L. (2010, April). *Androgen effects on gendered occupational interests*. Poster presentation at the Gender Development Research Conference, San Francisco, CA.
- Beltz, A. M.,** Bryk, K. L., Bailey, J. M., & Berenbaum, S. A. (2010, March). *Prenatal androgen effects on female sexual orientation and links with gendered activity interests and gender identity*. Poster presentation at the Society for Research on Adolescence biennial meeting, Philadelphia, PA.
- Beltz, A. M.,** & Murray, C. S. (2009, April). *A comprehensive analysis of gender differences in attachment in the college years*. Poster presentation at the Saint Joseph's University Chapter Sigma Xi Research Symposium, Philadelphia, PA.
- Beltz, A. M.,** & Carpenter, D. W. (2007, November). *The psychology of religious conversions*. Poster presentation at Saint Joseph's University Summer Scholars Celebration, Philadelphia, PA.