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**ADRIENE M. BELTZ**

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**CURRENT POSITION**

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- 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

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**EDUCATION AND TRAINING**

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- 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

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**HONORS**

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*Honors and awards:*

- 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: 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: \$150,000

Award Period: 01/2020-12/2022

Role: PI

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: 09/2020-08/2024

Role: PI

doi: 10.37717/2020-1145

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: 07/2021-06/2022

Role: co-I (PI: Weigard)

Title: The impact of pubertal suppression on adolescent neural and mental health trajectories

Source: **National Institute of Mental Health** (R01MH123746) Award Period: 08/2021-7/2026

Award Amount: \$115,822 (subaward)

Role: Co-I (MPIs: Diane Chen, Eric Nelson, and John Strang)

Title: Investigating age-related neural dedifferentiation longitudinally and in Alzheimer's pathology

Source: **National Institutes of Health** (R01AG050523)

Award Amount: \$3,656,073

Award Period: 08/2021-07/2026

Role: co-I (PI: Thad Polk)

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: Behavioral and neurobiological predictors of widespread pain in early adolescence and sex-specific trajectories of pain during puberty

Source: **National Institutes of Health** (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: 04/20/2022-04/20/2023

Role: PI

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

*Mentor on training grants:*

Title: **Developmental Psychology Training Grant** (T32 HD007109)

Source: Eunice Kennedy Shriver National Institute of Child Health and Human Development

PIs: Christopher Monk, Vonnie McLoyd, and Susan Gelman

Title: **Multidisciplinary Alcoholism Research Training Program** (T32 AA007477)

Source: National Institute on Alcohol Abuse and Alcoholism

PI: Frederic Blow

*Pending:*

Title: Training in functional magnetic resonance imaging

Source: **National Institutes of Health**

Award Amount: \$1,038,163

Status: resubmitted

Role: co-I (PI: John Jonides)

Title: Efficiency of evidence accumulation as a computationally defined, higher-order RDoC construct  
 Source: **National Institutes of Health**  
 Award Amount: \$429,000 Status: resubmitted  
 Role: co-I (PI: Alexander Weigard)

*Completed:*

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 first authors*)

*Constante, K., Demidenko, M. I., Huntley, E., Rivas-Drake, D., Keating, D., & Beltz, A. M.* (in press). Personalized neural networks underlie individual differences in ethnic identity exploration and resolution. *Journal of Research on Adolescence*. doi: 10.1111/jora.12760

Luo, L., Fisher, Z., Arizmendi, C., Molenaar, P. C. M., **Beltz, A.**, & Gates, K. (in press). Estimating both directed and undirected contemporaneous relations in time series data using hybrid-group iterative multiple model estimation. *Psychological Methods*. doi: 10.1037/met0000485

*Weigard, A., Lane, S., Gates, K. M., & Beltz, A. M.* (in press). The influence of autoregressive relation strength and search strategy on directionality recovery in GIMME. *Psychological Methods*. doi: 10.1037/met0000460

- Beltz, A. M., Demidenko, M. I., Wilson, S. J., & Berenbaum, S. A.** (in press). Prenatal androgen influences on the brain: A review, critique, and illustration of research on congenital adrenal hyperplasia. *Journal of Neuroscience Research*. doi: 10.1002/jnr.24900
- Foster, K. T., & **Beltz, A. M.** (in press). Heterogeneity in affective complexity among men and women. *Emotion*. doi: 10.1037/emo0000956
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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

- 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
- 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
- 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: 10.1177/09637214219983
- 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
- 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
- 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
- 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
- Chen, D. A., Strang, J. F. A., 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
- 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
- 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
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- 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
- 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
- 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* (2<sup>nd</sup> ed., pp. 585-638). Academic Press. doi: 10.1016/B978-0-12-814411-4.00027-5

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- 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
- 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
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- 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
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- 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
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- 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
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- 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
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- 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
- 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
- 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
- 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
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- 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
- 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

*Under review:*

- Beltz, A. M.**, Chaku, N., Loviska, A. M., & Foster, K. T. (under review). Measuring emotion with emoji (eMOTION).
- Beltz, A. M.**, & Kelly, D. P. (invited paper under first revision). Daily gender and cognition: A person-specific behavioral network analysis. *Multivariate Behavioral Research*.
- Chaku, N., Yan, R., Kelly, D. P., Zhang, Z., Lopez-Duran, N., Weigard, A., & **Beltz, A. M.** (invited paper under review). 100 days of adolescence: Elucidating externalizing behaviors through the daily assessment of inhibition. *Research on Child and Adolescent Psychopathology*.
- 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., Smith, M. R., Simpson, T., 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. (first revision under review). The daily association between affect and alcohol use: A meta-analysis of individual participant data. *Psychological Bulletin*.

- Gloe, L. M., Russman Block, S., Klump, K. L., **Beltz, A. M.**, & Moser, J. S. (first revision under review). Determining menstrual cycle phase: An empirical examination of methodologies and recommendations for improvement in behavioral and brain sciences. *Hormones and Behavior*.
- Hardi, F. A., Goetschius, L. G., McLoyd, V., Lopez-Duren, N. L., Mitchell, C., Hyde, L. W., **Beltz, A. M.**, & Monk, C. S. (second revision under review). Adolescent functional network connectivity prospectively predicts adult anxiety symptoms related to perceived COVID-19 economic adversity. *Journal of Child Psychology and Psychiatry*.
- Holman, A., Foxen-Craft, E., **Beltz, A. M.**, Bohnert, A., Schrepf, A., Clauw, D., Harris, R., Harte, S., & Kaplan, C. (under review). The emergence of sex differences in chronic pain in youth: The importance of measuring pubertal development in concert with changes in brain structure and function.
- 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. (under review). Sleep problems, somatic complaints and attention issues precede the development of new multisite pain in children.
- Petersen, N., **Beltz, A. M.**, Casto, K. V., Taylor, C., Jacobs, E. G., Sundström-Poromaa, I., & Pletzer, B. (invited paper under first revision). On the neuroscience of hormonal contraception. *Nature Neuroscience*.
- Russman Block, S., Klump, K. L., Winters, A., **Beltz, A.**, Burt, S. A., & Moser, J. (under review). Ovarian hormones reduce the negative association between worry and cognitive control: A combined neural and behavioral investigation.
- 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. (under review). Mapping heterogeneous language neural networks: An fNIRS investigation with Chinese-English, Spanish-English bilingual, and English monolingual children.

*In preparation:*

- Chaku, N., Corley, R. P., Qian, Y., Berenbaum, S. A., & **Beltz, A. M.** (in prep). Reliability and validity of retrospectively reported pubertal timing: Prospective evidence from adolescence to adulthood.
- 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.
- Kelly, D. P., Dzera, J., Demidenko, M. I., Weigard, A., Foster, K. T., & **Beltz, A. M.** (in prep). Pubertal timing and daily adult alcohol consumption: Examining the mediating effects of alcohol beliefs by gender.
- Le, E., Chaku, N., Foster, K. T., Weigard, A. S., & **Beltz, A. M.** (invited paper in prep). The link between daily affective complexity and anxiety is altered by oral contraceptive use. *International Journal of Psychophysiology*.
- McGowan, A. L., McGrath, J. J., **Beltz, A. M.**, Mucha, P. J., Ochsner, K. N., Bassett, D. S., Falk, E. B., & Lydon-Staley-D. M. (invited paper in prep). Connecting theory and methods in physical activity research. *Medicine & Science in Sports & Exercise*.

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 RESEARCH PRODUCTS (*Italics denote mentored trainee*)
 

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- 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

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 PRESS COVERAGE
 

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- 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) and Beltz, Hampson, and Berenbaum (2015)** 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, Swanson, and Berenbaum (2011)** covered by *LiveScience* and *Science Daily*

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 INVITED TALKS AND WORKSHOPS
 

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- 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 the Brain conference 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 the Brain 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, Illinois.
- 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*. Virtual presentation for the Ann Arbor District Library “Exploring the Mind” Community Talk.
- 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, Michigan.
- 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, California.
- Beltz, A. M.** (2018, August). *Oral contraceptives and cognition: A methodological perspective*. Invited presentation at the American Psychological Association annual convention, San Francisco, California.
- 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, Minnesota.
- Beltz, A. M.** (2017, February). *Network analysis of clinical time series data*. Invited presentation at the Michigan State University Clinical Science Forum, East Lansing, Michigan.
- 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, Pennsylvania.
- 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, Pennsylvania.
- 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, Georgia.
- 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, Georgia.

## PROFESSIONAL SERVICE

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Associate editor:

2020- **Journal for Research on Adolescence**

2018- **Multivariate Behavioral Research**

Topic editor:

2021-2022 **Journal of Neuroscience Research**

*Statistical consulting editor:*

- 2021- **The Journal of Child Psychology and Psychiatry**  
 2019- **Child Development**

*Editorial board member:*

- 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:*

- 2023-2024 **Society for Research on Adolescence annual meeting**  
 Program co-chair  
 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:*

- 2022- **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:*

- 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, 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:*

- 2020-2022 **Quantitative Methods in the Social Sciences**, steering 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:*

- 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, Michigan.
- Beltz, A. M. (2022, August). *Basic statistics primer*. Invited presentation at the University of Michigan Training Course in fMRI, Ann Arbor, Michigan.
- Beltz, A. M. (2022, July). *The psychology of hormonal contraceptives: Empowering women through personalization*. Invited presentation at Camp Michigania by the Alumni Association of the University of Michigan, Walloon Lake, Michigan.
- Beltz, A. M. (2022, July). *From average differences to different from average: When gender matters for emotion*. Invited presentation at Camp Michigania by the Alumni Association of the University of Michigan, Walloon Lake, Michigan.
- 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, Michigan.
- 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, Michigan.
- 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, Michigan.
- 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, Michigan.
- Beltz, A. M. (2018, May). *Studying gendered psychological processes with person-specific temporal networks*. Invited presentation at ICOS Big Data Summer Camp, Ann Arbor, Michigan.
- 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, Michigan.
- Beltz, A. M., & Molenaar, P. C. M. (2017, May). *GIMME*. Invited workshop by the inter-institutional LIFE Course Program, Ann Arbor, Michigan.
- Beltz, A. M. (2017, February). *The development of i*. Invited presentation at the University of Michigan developmental area brownbag, Ann Arbor, Michigan.
- Beltz, A. M. (2016, October). *Connectivity mapping with insights into development*. Invited presentation at the University of Michigan developmental area brownbag, Ann Arbor, Michigan.
- Beltz, A. M. (2016, October). *Network analysis of clinical data*. Invited presentation at the University of Michigan clinical science area brownbag, Ann Arbor, Michigan.
- 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, Pennsylvania.
- 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, Pennsylvania.

## PROFESSIONAL ASSOCIATIONS AND AFFILIATIONS

**Affiliate**


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 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  
 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

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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- **Methods Hour** (graduate)

2015 **Introductory Psychology**

2013-2022 **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 Proseminar (graduate)  
 fMRI Data Analysis (graduate)  
 Gender and Development (graduate)  
 LIFE Course  
 Person-Specific Data Analysis (graduate)

### MENTORING (+ denotes post-doctoral scholar)

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#### *Dissertation committees:*

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

ongoing **Meira Chefitz** (Design Science), cognate

#### *Senior and honor's theses:*

2020 **Elizabeth Le** (Neuroscience), honor's thesis mentor

2020 **Zoe Solomon**, senior thesis mentor

*Training grant mentor:*

2022-	Katherine Ross
2021-	Felicia Hardi
2020-	Natasha Chaku <sup>+</sup>
2020-2022	Matthew Nielson <sup>+</sup>
2020-2022	Averill Cantwell
2020-2022	Jennifer Cleary
2019-2021	Michael Demidenko
2018-2021	Alexander Weigard <sup>+</sup>
2018-2020	Leigh Goetschius
2017-2019	Kevin Constante-Toala
2017-2019	Petal Grower
2017-2018	Melissa Peckins <sup>+</sup>

ORAL PRESENTATIONS (*Italics denote mentored trainee*)

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- 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, 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, Illinois.
- 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, Illinois.
- 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*. Virtual presentation at the NIH Social, Behavioral, and Economic (SBE) Health Impacts of COVID-19 Initiative Grant Results Webinar.
- 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*. Virtual presentation at the Society for Research on Adolescence biennial meeting.
- 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*. Virtual presentation at the American College Neuropsychopharmacology Annual Meeting.
- 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*. Virtual presentation at the Society for Psychophysiological Research annual meeting.
- 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 Illinois.



- 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 Illinois.
- 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, Arizona.
- 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, California.
- 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, Connecticut.
- 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, Minnesota.
- 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, Minnesota.
- 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, Texas.
- 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, New York.
- 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, Montana.
- 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, Pennsylvania.
- 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, Pennsylvania.
- 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, Florida.

- 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, Delaware.

POSTER PRESENTATIONS (*Italics denote mentored trainee*)

- 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, 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, 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, Illinois.*
- 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. Virtual poster presentation at the Society for Research in Child Development biennial meeting.*
- 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. Virtual poster presentation at the Anxiety and Depression Association of America Conference.*
- Kaplan, C., Schrepf, A., Mawla, I., Ichesco, 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. Virtual poster presentation at the Organization for Human Brain Mapping annual meeting.*
- 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. Virtual poster presentation at the Association for Psychological Science annual meeting.*
- Le, E., Weigard, A., & Beltz, A. M. (2020, May). Daily affective complexity depends on emotional disposition and exogenous hormones. Virtual poster presentation at the Association for Psychological Science annual meeting.*

- Solomon, Z., Kelly, D., & Beltz, A. M. (2020, May). *Gender and personality links to social media use: A partial replication and extension*. Virtual poster presentation at the Association for Psychological Science annual meeting.
- 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, New York.
- 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, Minnesota.
- 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, Nevada.
- 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, Maryland.
- 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, California.
- 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, California.
- 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, Indiana.
- 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, California.
- 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, California.
- 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, California.

- 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, Colorado.
- 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, Texas.
- 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, California.
- 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, Colorado.
- 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, Hawaii.
- 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, Hawaii.
- 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, Pennsylvania.
- 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, California.
- 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, Virginia.
- 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., Turrissi, 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, Florida.
- 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, Washington.

- 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, Washington.
- 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, Washington.
- 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, Wisconsin.
- 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, Wisconsin.
- 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, California.
- 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, Florida.
- Beltz, A., Engels, A., Wilson, S., Gates, K., Molenaar, P., Pulido, C., Abar, C., Read, A., Fesi, J., Lemieux, S., Tapert, S., Turrise, 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, California.
- 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, Pennsylvania.
- 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, Pennsylvania.
- Beltz, A. M., & Carpenter, D. W. (2007, November).** *The psychology of religious conversions.* Poster presentation at Saint Joseph's University Summer Scholars Celebration, Philadelphia, Pennsylvania.