
ADRIENE M. BELTZ

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CURRENT POSITION

- 2016- **Assistant Professor of Psychology**
 University of Michigan
- 2017- **Research Assistant Professor of Data Science**
 University of Michigan Institute for Data Science

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:

- 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: 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: 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

Mentor on training grants:

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

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

PIs: Vonnie McLoyd and Christopher Monk

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

Source: National Institute on Alcohol Abuse and Alcoholism

PI: Frederic Blow

Pending:

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

Source: **National Institute of Mental Health**

Award Amount: \$155,822 (subaward)

Role: co-I (PIs: Nelson, Chen, & Strang)

Award Period: 04/2021-03/2026

Score: 6th percentile

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

Source: **National Institutes of Health**

Award Amount: \$2,367,868

Role: co-PI

Award Period: 09/2021-08/2026

Score: Under review

Completed:

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

Role: PI

Award Period: 01/2018-01/2020

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

Role: PI

Award Period: 10/2018-09/2019

Title: Computational social science and individualized medicine

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

Award Amount: \$50,000

Role: PI

Award Period: 06/2017-06/2019

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

Role: PI

Award Period: 06/2018-08/2018

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

Role: PI

Award Period: 09/2013-09/2014

PUBLICATIONS (*Italics denote mentored trainee; * denote joint first authors*)

Berenbaum, S. A., & **Beltz, A. M.** (in press). Evidence and implications from a natural experiment of prenatal androgen effects on gendered behavior. *Current Directions in Psychological Science*.

Foster, K. T., & **Beltz, A. M.** (in press). Heterogeneity in affective complexity among men and women. *Emotion*.

Kelly, D., & **Beltz, A. M.** (in press). Capturing fluctuations in gendered cognition with novel intensive longitudinal measures. *Assessment*. doi: 10.1177/1073191120952888

Chen, D.*, 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. (in press). Consensus parameter: Research methodologies to evaluate neurodevelopmental effects of pubertal suppression in transgender youth. *Transgender Health*. 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
- 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
- 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 P. Rakic & J. Rubenstein (Series Eds.), *Comprehensive developmental neuroscience* (2nd ed.), In H. Tager-Flusberg (Vol. Ed.), *Neural circuit development and function in the healthy and diseased brain, vol. 3* (pp. 585-638). Oxford: Elsevier. 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
- 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
- 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
- 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

- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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 Nadal, K. L. (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
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- Beltz, A. M.**, Berenbaum, S. A., & Wilson, S. J. (2015). Sex differences in resting state brain networks underlying cigarette smoking and links to nicotine dependence. *Experimental and Clinical Psychopharmacology, 23*(4), 247-254. doi: 10.1037/pha0000033
- 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
- 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
- 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
- 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
- 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:*
- Arredondo, M. M., Kovelman, I., Satterfield, T., Hu, X., Stojanov, L., & **Beltz, A. M.** (under review). Person-specific connectivity mapping uncovers differences of bilingual language experience on brain bases of attention in children.
- Beltz, A. M.**, Demidenko, M. I., Wilson, S. J., & Berenbaum, S. A. (invited paper under review). Prenatal hormone influences on the brain: A review, critique, and illustration. *Journal of Neuroscience Research*.
- Beltz, A. M.**, Loviska, A. M., Weigard, A. (under review). How masculine were you today? Daily fluctuations in gender identity are associated with adjustment...for some people, but mainly men.
- Chaku, N., Kelly, D. P., & **Beltz, A. M.** (invited paper under review). Individualized learning potential in stressful times: How to leverage intensive longitudinal data to inform online learning. *Computers in Human Behavior*.
- Dorn, L. D., & **Beltz, A. M.** (invited chapter revision under review). Puberty: Foundations, findings, and the future. In L. J. Crockett, G. Carlo, & J. E. Schulenberg (Eds.), *APA handbook of adolescent and young adult development*.
- 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. (under review). Detecting task-dependent functional connectivity in GIMME with person-specific hemodynamic response functions.
- Egumenovska, K., **Beltz, A.**, Luo, Y., Gay, M., Slobunov, S., & Molenaar, P.M. (under review). Feasibility of EEG measures to detect sub-acute residual damage in subjects recovering from sports-related concussion.
- 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. (under review). Visual speech differentially modulates beta, theta, and high gamma bands in auditory cortex.
- Gloe, L. M., Russman-Block, S., Klump, K. L., **Beltz, A. M.**, & Moser, J. S. (under review). Defining menstrual cycle phase: How methodological challenges are confounding biobehavioral neuroendocrinology research and recommendations for improvement.
- Kelly, D. P., & **Beltz, A. M.** (under review). Spatial skills and self-perceived masculinity: Considering directionality, STEM, and gender.
- Louis, C. C., Kneip, C., Moran, T. P., **Beltz, A. M.**, Klump, K. L., & Moser, J. S. (under review). Hormonal contraceptive use moderates the association between worry and error-related brain activity.
- Luo, L., Fisher, Z., Arizmendi, C., **Beltz, A.**, & Gates, K. (under review). Estimating both directed and bidirectional contemporaneous relations in time series data using hybrid-GIMME.

- Nielson, M. G., & Beltz, A. M. (under review). Oral contraceptives and gender: Pill use is not related to gender self-concept.
- Pham, H. T., Beltz, A. M., Corley, R. P., & Berenbaum, S. A. (invited chapter revision under review). Twin studies of puberty. In A. D. Tarnoki, D. L. Tarnoki, J. R. Harris, N. Segal, & L. Littvay (Eds.), *Twin research*.
- Van Ockenburg, S. L., Beltz, A., Kema, I., Bos, E. H., de Jonge, P., Gans, R. O. B., Molenaar, P. C., & Rosmalen, J. G. M. (under review). Cortisol dynamics in healthy individuals.
- Weigard, A., Lane, S., Gates, K. M., & Beltz, A. M. (under review). The influence of autoregressive relation strength and search strategy on directionality recovery in GIMME.
- Weigard, A., Loviska, A. M., & Beltz, A. M. (under review). Men and women ride the same emotional rollercoaster: Little evidence for sex or ovarian hormone influences on affective variability.

In preparation:

- Russman Block, S., Winters, A., Beltz, A., Burt, S. A., Klump, K. L., & Moser, J. (in prep). The effect of estradiol on the association between anxiety and cognitive control-related brain function.
- Constante, K., Demidenko, M. I., Huntley, E., Rivas-Drake, D., Keating, D., & Beltz, A. M. (in prep). Personalized neural networks underlie ethnic-racial identity exploration and resolution.
- 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.

RESEARCH PRODUCTS (*Italics denote mentored trainee*)

- Beltz, A., Foster, K. T., & Loviska, A. (2020, July 7). The Emoji Positive and Negative Affect Schedule (E-PANAS) [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. (2019, September 13). 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

INVITED TALKS AND WORKSHOPS

- 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

Associate editor:

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

Consulting editor, statistics:

- 2019- **Child Development**

Editorial board member:

- 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:

- 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:

Proceedings of the National Academy of Sciences
The American Journal of Psychiatry
Frontiers in Neuroendocrinology
Psychological Science
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:

2016- **Methods Hour**, founder and organizer at the University of Michigan

2020- **Quantitative Methods in the Social Sciences**, steering committee member

Internal invited talks and workshops:

Beltz, A. (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. (2020, March). *GIMME: Group iterative multiple model estimation*. Invited presentation in the University of Michigan Neuroimaging Initiative – Methods group, Ann Arbor, Michigan.

Beltz, A. (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. (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., 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

- 2008- **Affiliate**
 American Psychological Association
 Association for Psychological Science
 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
- 2007-2009 **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

- 2019 **The Behavioral Neuroscience of Puberty**
- 2018 & 2021 **Advanced Research Methods and Statistics II** (graduate)
- 2017 & 2020 **Advanced Research Methods and Statistics I** (graduate)
- 2017- **Methods Hour** (graduate)
- 2015 **Introductory Psychology**
- 2013-2018 **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)

ORAL PRESENTATIONS (*Italics denote mentored trainee*)

- Chaku, N., Kaplan, C., Foster, K. T., & **Beltz, A. M.** (2021, March). *Daily depression and working memory: Pubertal timing moderates adult relations*. Virtual presentation to be given 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 to be given 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 to be given 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 student trainee*)

- Kaplan, C., Schrepf, A., Mawla, I., Ichescu, 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 to be presented 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 to be presented 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., 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, 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., 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, 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.