**DANIEL W. BELSKY**

*Curriculum Vitae*

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**EDUCATION**

Post Doc Center for the Study of Aging and Human Development, Duke University Medical Center, *Developmental Genetic Epidemiology* (w/ TE Moffitt & A Caspi)

Ph.D. Gillings School of Public Health, University of North Carolina at Chapel Hill, 2012, *Health Policy & Management*. Dissertation Title “Informing public health approaches to obesity and smoking using genome-wide association studies: Genetic epidemiology affirms the importance of early prevention”

B.A. Department of Psychology, Swarthmore College, 2002, *Psychology*.

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**RESEARCH**

**Areas of Interest**

* Aging
* Health disparities and social gradients in health
* Genetics/Genomics – Life course and developmental approaches

The goal of my work is to reduce social inequalities in aging outcomes in the US and elsewhere. My research sits at the intersection of public health, population & behavioral science, and genomics. My studies seek to understand how genes and environments combine to shape health across the life course. I use tools from genome science and longitudinal data from population-based cohort studies. The aim is to identify targets for policy and clinical interventions to promote positive development from early life and extend healthspan.

**Bibliometrics** (Google Scholar): H-Index = 35, I-10 Index = 64, Total citations = 7,717

Altmetric evidence of impact outside the ivory tower: 65 published journal articles have 7,111 total mentions, including 712 newspaper articles, 127 blogs, 6,224 social media posts or tweets, 28 policy documents, 9 Wikipedia mentions, and 8 recommendations in Faculty-1000. Downloaded 26 September, 2018. [https://www.altmetric.com](https://www.altmetric.com/explorer/report/c283b56f-6a4f-4b17-9e39-ce886242d4b6)

**Refereed Journal Articles**\* denotes corresponding author; ¶ denotes equal contribution;

**2019**

1. **Belsky DW**¶, Harden KP¶. Phenotypic annotation: Translating discoveries from genome-wide association studies from the top down. [*Current Directions in Psychological Science*](https://journals.sagepub.com/doi/10.1177/0963721418807729), 28(1):82-90. PMCID Pending
2. **Belsky DW\***, Caspi A, Arseneault L, Corcoran D, Houts R, Moffitt TE, Prinz J, Sugden K, Wertz J, Williams BS, Odgers CL. Genetics and the geography of health, behavior, and attainment. [*Nature Human Behaviour*](https://t.co/Z5suZg904R), Published online April 8, 2019. PMC6565482
3. **Belsky DW\***, Haratti A. To the freezers! Stored biospecimens from human randomized trials are an important new direction for studies of biological aging. [*Journals of Gerontology A: Medical Sciences*](https://www.thessgac.org/data),74(1):89-90, 2019. PMCID pending
4. Hastings W, Shalev I, **Belsky DW\***. Comparability of biological aging measures in the National Health and Nutrition Examination Surveys 1999-2002. [*Psychoneuroendocrinology*](https://urldefense.proofpoint.com/v2/url?u=https-3A__authors.elsevier.com_a_1Yufu15hUdI-7Etq&d=DwMFaQ&c=G2MiLlal7SXE3PeSnG8W6_JBU6FcdVjSsBSbw6gcR0U&r=OlWfs5O9QXha_nXJR-2DgJvYiNuJc4sMXHQxHF7ymmM&m=Xd7z_-jPAp9x_2OJwLMx7t1sZiDUUYqdM30FGGSe0ec&s=_Ys63Yr_-_BFHqO8EfgV90kmnrLAv7wjSJjQ2pswIEQ&e=), 106: 171-178. PMC6599717
5. Parker DC, Bartlett BN,Cohen HJ, Fillenbaum G, Huebner J, Kraus VB, Pieper C, **Belsky DW\***. Association of blood chemistry quantifications of biological aging with disability and mortality in older adults. In Press, *Journals of Gerontology A: Biological Sciences.*
6. Gaydosh L, **Belsky DW**, Glei D, Goldman N. Testing proposed quantifications of biological aging in Taiwanese older adults. Published online Sept 30, 2019, *Journals of Gerontology A: Biological Sciences.*
7. Haag S, **Belsky DW**, Cohen A. Developments in molecular epidemiology of aging. *Emerging Topics in Life Sciences*, ETLS20180173, Published online June 20, 2019.
8. Reuben A, Arseneault L, **Belsky DW**, Caspi A, Fisher HL, Houts RM, Moffitt TE, Odgers C. Residential neighborhood greenery and children’s cognitive development. *Social Science & Medicine*, 230:271-2179. PMCID Pending
9. Wertz J, Belsky J, Moffitt TE, **Belsky DW**, Harrington HR, Avunim R, Poulton R, Ramrakha S, Caspi A. Genetics of nurture: A test of the hypothesis that parents’ genetics predict their observed caregiving. *Developmental Psychology,* Published online March 28, 2019. PMC6586484
10. Wertz J, Moffitt TE, Agnew-Blais J, Arseneault L, **Belsky DW**, Corcoran DL, Houts R, Matthews T, Prinz JA, Richmond-Rakerd LS, Sugden K, Williams BS, Caspi A. Using DNA from mothers and children to study parental investment in children’s educational attainment. In Press, *Child Development.*
11. Wertz J, Caspi A, Ambler A, Arseneault L, **Belsky DW**, Danese A, Fisher HL, Matthews T, Richmond-Rakerd L, Moffitt TE. Adolescent borderline symptoms signal risk for poor outcomes in early adulthood: Findings from a genetically sensitive longitudinal cohort study. In Press, *JAACAP*.
12. Sugden K, Hannon E, Arseneault E, **Belsky DW**, Broadbent J, Corcoran D, Hancox R, Houts R, Moffitt TE, Poulton R, Prinz J, Thomson W, Williams B, Wong C, Mill J, Caspi A. Establishing a generalized polyepigenetic biomarker for tobacco smoking. *Translational Psychiatry*, 9(92), 2019*.* PMC6377665
13. Guida JL, Ahles TA, **Belsky DW**, Campisi J, Cohen HJ, DeGregori J, Fuldner R, Ferrucci L, Gallicchio L, Gavrilov L, Gavrilova N, Green PA, Jhappan C, Kohanski R, Krull K, Mandelblatt J, Ness KK, O’Mara A, Price N, Schrack J, Studenski S, Theou O, Tracy RP, Hurria A. Measuring Aging and Identifying Aging Phenotypes in Cancer Survivors. Published online July 18, 2019, *JNCI*, djz136.

**2018**

1. **Belsky DW\***, Moffitt TE, Cohen AA, Corcoran DL, Levine ME, Prinz J, Schaefer J, Sugden K, Williams B, Poulton R, Caspi A. Telomere, epigenetic clock, and biomarker-composite quantifications of biological aging: Do they measure the same thing? [*American Journal of Epidemiology*](https://academic.oup.com/aje/article/doi/10.1093/aje/kwx346/4622080), 187(6):1220-1230, 2018 (published online November 2017). PMC6248475

Selected as a 2018 *Article of the Year* by the *American Journal of Epidemiology*.

1. **Belsky DW**¶\*, Domingue BD¶, Weedow R, Arseneault L, Boardman J, Caspi A, Conley DC, Fletcher J, Freese J, Herd P, Moffitt TE, Poulton R, Sicinski K, Wertz J, Harris KM. Genetic analysis of social-class mobility in five longitudinal studies. [*Proceedings of the National Academy of Sciences (Plus) USA*](http://www.pnas.org/content/early/2018/07/03/1801238115), 115(31):E7275-84, 2018*.* PMC29987013
2. **Belsky DW**. Life-course longitudinal studies are needed to advance integration of genomics and social epidemiology. [*American Journal of Epidemiology*](https://academic.oup.com/aje/advance-article/doi/10.1093/aje/kwy060/4967659?guestAccessKey=64f1470e-4e37-480c-91c1-d26c4f58fb13), 187(6):1337-8, 2018. PMC Journal, PMCID pending.
3. Elliott ML¶, **Belsky DW¶**, Anderson K, Corcoran DL, Ge T, Knodt A, Prinz J, Sugden K, Williams B, Ireland D, Poulton R, Caspi A, Holmes A, Moffitt TE, Hariri AR. A polygenic score for educational attainment is associated with larger brain size. [*Cerebral Cortex*](https://academic.oup.com/cercor/advance-article/doi/10.1093/cercor/bhy219/5095370?guestAccessKey=36db66e2-49ba-4a1c-842b-7a1e08f34898), Published online September 12, 2018. PMCID Pending.
4. Domingue BW, **Belsky DW**, Fletcher J, Conley D, Boardman JB, Harris KM. The social genome of friends and schoolmates in the National Longitudinal Study of Adolescent to Adult Health. *Proceedings of the National Academy of Sciences USA*, Published online January 20, 2018. PMC5789914
5. Gaydosh L, **Belsky DW**, Domingue BW, Boardman J, Harris KM. Father absence and accelerated reproductive development. *Demography*, 55(4):1245-67, 2018. PMC6467216
6. Trejo S, **Belsky DW**, Sicinski K, Freese J, Herd P, Boardman J, Harris KM, Domingue BW. Schools as moderators of genetic associations with life-course attainments: Evidence from the WLS and Add Heath. *Sociological Science*, 5:513-540, 2018*.* PMC6314676
7. Marioni RE, **Belsky DW**, Wagner W. Association of facial ageing with DNA methylation and epigenetic age predictions. *Clinical Epigenetics*, 10(1):140, 2018. PMC6225560
8. Wertz J, Caspi A, **Belsky DW**, Beckley AL, Arseneault L, Barnes JC, Corcoran D, Hogan S, Houts RM, Morgan N, Odgers CL, Prinz JA, Sugden K, Williams BS, Poulton R, Moffitt TE. Genetics and crime: Integrating new genomic discoveries into psychological research about antisocial behavior. *Psychological Science*, 29(5):791-803, 2018. PMC5945301
9. Marzi SJ, Sugden K, Arseneault L, **Belsky DW**, Burrage J, Corcoran D, Danese A, Fisher HL, Hannon E, Moffitt TE, Odgers CL, Pariante C, Williams BS, Wong CY, Mill J, Caspi A. Analysis of DNA methylation in young people: Limited evidence for an association between victimization stress and epigenetic variation in blood. *American Journal of Psychiatry,* 175(6):517-529, 2018. PMC5988939
10. Rasmussen LJH, Moffitt TE, Eugen-Olsen J, **Belsky DW**, Danese A, Harrington HL, Houts R, Poulton R, Sugden K, Williams B, Caspi A. Cumulative childhood risk is associated with a new measure of chronic inflammation in adulthood. *J Child Psychology & Psychiatry*, 60(2):199-208, 2019. Published online May 9, 2018.
11. Hannon E, Knox O, Sugden K, Burrage J, Wong CCY, **Belsky DW**, Arseneault L, Moffitt TE, Caspi A, Mill J.  Characterizing genetic and environmental influences on variable DNA methylation using monozygotic and dizygotic twins. *PLOS Genetics*, 14(8):e1007544, 2018. PMC6084815

**2017**

1. **Belsky DW\***, Huffman K, Pieper C, Shalev I, Kraus W. Change in the Rate of Biological Aging in Response to Caloric Restriction: CALERIE Biobank Analysis. [*Journals of Gerontology A: Biological Sciences*](https://academic.oup.com/biomedgerontology/article/doi/10.1093/gerona/glx096/3834057/Change-in-the-Rate-of-Biological-Aging-in-Response), 12;73(1):4-10, 2017*.* PMC5861848

Editor’s Choice Article, [US News & World Report](http://health.usnews.com/health-care/articles/2017-05-22/cut-calories-lengthen-life-span), [Men’s Health](http://www.menshealth.com/health/reverse-aging-cut-calories), [AltMetric](https://oxfordjournals.altmetric.com/details/20379969/news)

1. **Belsky DW\***, Caspi A, Kraus W, Cohen HJ, Ramrakha S, Poulton R, Moffitt TE. Impact of early personal-history characteristics on the Pace of Aging: Implications for clinical trials of therapies to slow aging and extend healthspan. [*Aging Cell*](http://onlinelibrary.wiley.com/doi/10.1111/acel.12591/full), 16(4):644-651, 2017 PMC5506399.
2. **Belsky DW**. Translating polygenic analysis for prevention: from “who” to “how”. [*Circulation: Cardiovascular Genetics*](http://circgenetics.ahajournals.org/content/10/3/e001798), 10:e001798, 2017. PMC5533187
3. **Belsky DW\***, Snyder-Mackler N. Integrating genomics and social epidemiology. [*American Journal of Epidemiology*](https://academic.oup.com/aje/article/doi/10.1093/aje/kwx145/4049569/Invited-Commentary-Integrating-Genomics-and-Social), 186(5):510-513, 2017. PMC5860011
4. Domingue BW, Liu H, Okbay A, **Belsky DW\***. Genetic heterogeneity in depressive symptoms following the death of a spouse: Polygenic score analysis of the US Health and Retirement Study. [*American Journal of Psychiatry*](http://ajp.psychiatryonline.org/doi/full/10.1176/appi.ajp.2017.16111209)*,* 174(10): 963-970, 2017. PMC5610918
5. Domingue BW, **Belsky DW\***. The social genome: Current findings and implications for human genetics. [*PLoS Genetics*](http://journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1006615)*,* 13(3): e1006615, 2017. PMC5354246
6. Richmond-Rakerd L‡, **Belsky DW\***. Swedish Register analysis of divorce and alcohol use disorder highlights social relationships as a target for preventive psychiatry and genetic research. [*American Journal of Psychiatry*](http://ajp.psychiatryonline.org/doi/full/10.1176/appi.ajp.2017.17020170), 174(5): 411-413*.* PMC5506830
7. Hastings W, Shalev I, **Belsky DW\***. Translating measures of biological aging to test effectiveness of geroprotective interventions: What can we learn from research on telomeres? [*Frontiers in Genetics*](https://www.frontiersin.org/articles/10.3389/fgene.2017.00164/abstract), 8:164, doi:10.3389/fgene.2017.00164. PMC5702647
8. Domingue BW, **Belsky DW**, Harrati A, Conley D, Weir D, Boardman J. Mortality selection in a genetic sample and implications for association studies. *International Journal of Epidemiology*, 46(4):1285-1294, 2017. PMC5837559
9. Reuben A, Caspi A, **Belsky DW**, Broadbent J, Harrington H, Sugden K, Houts RM, Ramrakha S, Poulton R, and Moffitt TE. Association of childhood blood lead levels with cognitive function and socioeconomic status at age 38 years and with IQ change and socioeconomic mobility between childhood and adulthood. *JAMA*, 317(12): 1244-1251, 2017. PMC5490376
10. Schaefer JD, Scult MA, Caspi A, Arseneault L, **Belsky DW**, Hariri AR, Harrington M, Houts R, Ramrakha S, Poulton R, Moffitt TE. Is low cognitive functioning a predictor or consequence of major depressive disorder? A test in two longitudinal birth cohorts. *Development & Psychopathology*, Nov 16:1-15, 2017. PMC5842891

**2016**

1. **Belsky DW\***, Moffitt TE, Corcoran DL, Domingue B, Harrington HL, Hogan S, Houts R, Ramrakha S, Sugden K, Williams B, Poulton R, Caspi A. The genetics of success: How SNPs associated with educational attainment relate to life course development. [*Psychological Science*](http://pss.sagepub.com/content/27/7/957), 27(7)957-972, 2016. PMC4946990.

[New Scientist](https://www.newscientist.com/article/2092757-genetic-test-predicts-your-success-in-life-but-not-happiness/), [US News & World Report](http://health.usnews.com/health-care/articles/2016-06-08/does-dna-determine-success-in-life), [CBS News](http://www.cbsnews.com/news/can-your-genes-predict-future-success-in-life/), [AltMetric](https://www.altmetric.com/details/8430180)

1. **Belsky DW**. Lessons for research on cognitive aging from a study of children. [*American Journal of Epidemiology*](http://aje.oxfordjournals.org/content/early/2016/05/24/aje.kww029.abstract), 183(12):1083-1085, 2016.
2. Steinsbekk S, **Belsky DW**, Cuzey J, Wardle J, Wichstrøm L. Polygenic risk, appetite traits, and weight gain in middle childhood: A longitudinal study. [*JAMA Pediatrics*](http://jamanetwork.com/journals/jamapediatrics/fullarticle/2485206), 170(2):e154472, 2016. PMC5914161
3. Moffitt TE, **Belsky DW**, Danese A, Poulton R, Caspi A. The longitudinal study of aging in human young adults: Knowledge gap and research agenda. [*Journals of Gerontology A: Medical Sciences*](http://biomedgerontology.oxfordjournals.org/content/early/2016/10/07/gerona.glw191.full). Published online October 7, 2016. doi: 10.1093/gerona/glw191. PMC5233916
4. Conley D, Laidely T, **Belsky DW**, Fletcher JM, Boardman JD, Domingue BW. Assortative mating and differential fertility by phenotype and genotypes across the 20th Century. *Proceedings of the National Academy of Sciences USA*, 113(24):6647-6652, 2016. PMC4914190.
5. Caspi A, Houts RM, **Belsky DW**, Harrington HL, Hogan S, Ramrakha S, Poulton R, Moffitt TE. A small segment of the population with large economic burden: Childhood forecasting. *Nature Human Behavior*, 1:0005 (2016). Published online December 12, 2016. PMC5505663
6. Schaefer JD, Caspi A, **Belsky DW**, Harrington HL, Houts R, Horwood J, Husson A, Ramrakha S, Poulton R, Moffitt TE. Enduring mental health: Prevalence and prediction. *Journal of Abnormal Psychology*, 126(2)212-214, 2016. PMC5304549
7. Baldwin J, Arseneault L, Odgers C, **Belsky DW**, Matthews T, Ambler A, Caspi A, Moffitt TE, Danese A. Childhood bullying predicts overweight in young adulthood: A cohort study. *Psychosomatic Medicine*, 78(9):1094-1103, 2016. PMCID5098717
8. Meier MH, Hall W, Caspi A, **Belsky DW**, Cerdá M, Harrington HL, Houts R, Poulton R, Terrie E. Moffitt TE. Which adolescents develop persistent substance dependence in adulthood? Using population-representative longitudinal data to inform universal risk assessment. *Psychological Medicine*, 46(4):877-889, 2016. PMC4752874
9. Reuben A, Moffitt TE, Caspi A, **Belsky DW**, Harrington HL, Schroeder F, Hogan S, Ramrakha, S, Poulton R, Danese A. Lest we forget: Comparing retrospective and prospective assessments of adverse childhood experiences in the prediction of adult health. *Journal Child Psychology & Psychiatry*, 57(10):1103-1112, 2016. PMC5234278

**2015**

1. **Belsky DW\***, Caspi A, Houts R, Corcoran D, Cohen HJ, Danese A, Harrington HL, Israel S, Levine M, Schaefer J, Sugden K, Williams B, Yashin AI, Poulton R, Moffitt TE. Quantification of biological aging in young adults. [*Proceedings of the National Academy of Sciences (Plus) USA*](http://www.pnas.org/content/early/2015/07/01/1506264112.abstract). 112(30):E4104-4110, 2015. PMC4522793

Featured: In This Issue “Measuring aging in young adults”, PNAS 112(30):9141-9142
[F1000 Recommended (Prime Rating: 7)](http://f1000.com/prime/725620209?subscriptioncode=54cddf62-21e1-41ca-a5f4-5ca327877ee1)
ISI Highly Cited Article
[Wall Street Journal](http://www.wsj.com/articles/how-quickly-are-you-growing-old-1436808166), [Washington Post](http://www.washingtonpost.com/news/to-your-health/wp/2015/07/07/study-of-1000-38-year-olds-shows-biological-age-ranges-from-30-to-60/), [LA Times](http://www.latimes.com/science/sciencenow/la-sci-sn-old-young-biomarkers-20150706-story.html), [TIME](http://time.com/3946850/slow-down-aging/), [BBC News](http://consumer.healthday.com/senior-citizen-information-31/misc-aging-news-10/some-people-do-age-faster-or-slower-than-others-701047.html), [The Guardian](http://www.theguardian.com/science/2015/jul/06/old-before-your-time-people-age-at-wildly-different-rates-study-confirms), [AltMetric](http://pnas.altmetric.com/details/4248247/news)

1. **Belsky DW**. Reply to Newman: Quantification of biological aging in young adults is not the same as the onset of obesity. [*Proceedings of the National Academy of Sciences USA*](http://www.pnas.org/content/early/2015/12/15/1518878112.extract). Published online before print December 2015 doi: 10.1073/pnas.1518878112. PMC4703021

In Reply to Newman A. Is the onset of obesity the same thing as aging? *Proceedings of the National Academy of Sciences USA*. Published online before print December 2015, doi:10.1073/pnas.1515367112

1. **Belsky DW\***, Caspi A, Israel S, Blumenthal JA, Poulton R, Moffitt TE. Cardiorespiratory fitness and cognitive function at midlife: Neuroprotection or neuroselection? [*Annals of Neurology*](http://onlinelibrary.wiley.com/doi/10.1002/ana.24356/abstract;jsessionid=9131FD97D935409D8828F360783AA35B.f03t01), 77(4):607-617, 2015. PMC4376580
2. Albert WD¶, **Belsky DW**¶, Crowley DM, Latendresse SJ, Aliev F, Riley B, Sun C, Conduct Problems Prevention Research Group, Dick DM, Dodge KR. Can genetics predict response to complex behavioral interventions? Evidence from a genetic analysis of the Fast Track randomized control trial. [*Journal of Policy Analysis & Management*](http://onlinelibrary.wiley.com/doi/10.1002/pam.21811/abstract), 34(3):497-518, 2015. PMC4480598
3. Albert WD, **Belsky DW**, Crowley DM, Conduct Problems Prevention Research Group, Bates JE, Pettit GS, Lansford JE, Dick DM, Dodge KR. Developmental mediation of genetic variation in response to the Fast Track prevention program. *Development & Psychopathology*, 27(S01): 81-95, 2015. PMC4465235
4. Domingue B, **Belsky DW**, Conley D, Harris KM, Boardman JD. Polygenic influence on educational attainment: New evidence from The National Longitudinal Study of Adolescent to Adult Health. *AERA Open*, 1(3):1-13, 2015. PMCID Pending, Archiving by journal.
5. Schaefer J, Caspi A, **Belsky DW**, Harrington HL, Houts R, Israel S, Levine M, Sugden K, Williams B, Poulton R, Moffitt TE. Early-life intelligence predicts midlife biological age. *Journals of Gerontology B: Psychological Sciences*, 71(6):968-977. PMC5067943.
6. Moffitt TE, Houts R, Asherson P, **Belsky DW**, Corcoran, DL, Hammerle M, Harrington HL, Hogan S, Meier M, Polanczyk GV, Poulton R, Ramrakha S, Rohde LA, Sugden, K, Williams, B, Caspi A. Is adult ADHD a childhood-onset neurodevelopmental disorder? A 4-decade longitudinal cohort study. *American Journal of Psychiatry*, 172(10):967-977. PMC4591104

**2014**

1. **Belsky DW**, Shalev I, Sears MR, Hancox RJ, Harrington H, Houts R, Moffitt TE, Sugden K, Williams B, Poulton R, Caspi A. Is chronic asthma associated with shorter leukocyte telomere length at midlife? [*American Journal of Respiratory & Critical Care Medicine*](http://www.atsjournals.org/doi/abs/10.1164/rccm.201402-0370OC#.U9f2-Y1dVd8), 190(4):384-391, 2014. PMC4214127

Editorial by S Guerra "New Asthma Biomarkers: Shorter Telomeres, Longer Disease?" *American Journal of Respiratory and Critical Care Medicine*, 190(4):356-358, 2014.

1. **Belsky DW**. Appetite for prevention: Genetics and developmental epidemiology join forces in obesity research. [*JAMA Pediatrics*](http://archpedi.jamanetwork.com/article.aspx?articleid=1831290), 168(4):309-311, 2014. PMC3981876

[LA Times](http://www.latimes.com/science/sciencenow/la-sci-sn-obesity-genes-appetite-20140218%2C0%2C841640.story#axzz2vl3MoZ7L), [NPR](http://www.npr.org/blogs/health/2014/02/18/279155687/babies-who-eat-too-well-may-be-on-the-path-to-obesity), [CBS News](http://www.cbsnews.com/news/childs-appetite-may-predict-future-obesity-risk/)

1. **Belsky DW**, Sears MR. The potential to predict the course of childhood asthma. [*Expert Review of Respiratory Medicine*](http://informahealthcare.com/doi/abs/10.1586/17476348.2014.879826), 8(2):137-141, 2014. PMC3949175
2. **Belsky DW**, Suppli N, Israel S. Gene-environment interaction research in psychiatric epidemiology: A framework and implications for study design. [*Social Psychiatry & Psychiatric Epidemiology*](http://link.springer.com/article/10.1007/s00127-014-0954-5)*,* 49(10):1525-1529, 2014. PMC4174337
3. **Belsky DW**, Israel S. Integrating genetics and social science: Genetic risk scores. [*Biodemography & Social Biology*](http://www.tandfonline.com/doi/full/10.1080/19485565.2014.946591), 60:137-155, 2014. PMC4274737
4. Domingue BW, **Belsky DW**, Harris KM, Smollen A, McQueen MB, Boardman JD. Polygenic risk predicts obesity in black and white young adults. *PLoS ONE*, 9(7):e101596. doi:10.1371/journal.pone.0101596, 2014. PMC4081643
5. Israel S, Caspi A, **Belsky DW**, Harrington HL, Hogan S, Houts R, Ramrakha S, Sanders S, Poulton R, Moffitt TE. Credit scores, cardiovascular disease risk, and human capital. *Proceedings of the National Academy of Sciences of the United States*, 111(48): 17087-92, 2014. PMC4260546
6. Danese A, Dove R, **Belsky DW**, Henchy J, Williams B, Ambler A, Arseneault L. Leptin deficiency in maltreated children. *Translational Psychiatry*, 4:e446. doi:10.1038/tp.2014.79, 2014. PMC4203008
7. Shalev I, Caspi A, Ambler A, **Belsky DW**, Chapelle S, Cohen H, Israel S, Poulton R, Ramrakha S, Rivera C, Sugden K, Williams B, Wolke D, Moffitt TE. Perinatal complications predict subjective and objective aging indicators at midlife. *Pediatrics*, 134(5):e1315-1323. PMC4210799

**2013**

1. **Belsky DW**, Moffitt TE, Baker T, Biddle AH, Evans JP, Harrington HL, Houts R, Meier MH, Sugden K, Williams B, Poulton R, Caspi A. Polygenic risk and the developmental progression to heavy, persistent smoking and nicotine dependence: Evidence from a 4-decade longitudinal study. [*JAMA Psychiatry*](http://archpsyc.jamanetwork.com/article.aspx?articleid=1672838), 70(5):534-542, 2013. PMC3644004

[F1000 Recommended](http://f1000.com/prime/718020180#recommendations) (Prime Rating: 2)

ISI Highly Cited Article

[Fox News](http://www.foxnews.com/health/2013/03/28/genetics-may-determine-who-becomes-heavy-smoker/), US News & World Report, [Every Day Health](http://www.everydayhealth.com/sanjay-gupta/morning-rounds-genes-may-determine-smoking-addiction.aspx), [Huffington Post](http://www.huffingtonpost.co.uk/2013/03/27/failing-to-stop-smoking-may-be-genes_n_2966573.html), [Medline](http://www.nlm.nih.gov/medlineplus/news/fullstory_135326.html), [Times of India](http://timesofindia.indiatimes.com/life-style/health-fitness/health/Teen-smoking-addiction-linked-to-genes/articleshow/19259032.cms)

1. **Belsky DW\***, Sears MR, Hancox R, Moffitt TE, Harrington H, Houts R, Sugden K, Williams B, Poulton R, Caspi A. Polygenic risk and the development and course of asthma: an analysis of data from a 4-decade longitudinal study. [*Lancet Respiratory Medicine*](http://www.thelancet.com/journals/lanres/article/PIIS2213-2600%2813%2970101-2/abstract), 1:453-461, 2013. PMC3899706

Editorial by MJ Ege and E von Mutius, “Can genes forecast asthma risk?” *Lancet Respiratory Medicine*, 1:425-426, 2013.

[F1000 Recommended (Prime Rating: 2)](http://f1000.com/prime/718076927)

[Time](http://healthland.time.com/2013/06/28/genetic-test-could-predict-which-kids-will-have-lasting-asthma-symptoms/), [US News & World Report](http://health.usnews.com/health-news/news/articles/2013/06/28/genetic-risks-for-asthma-may-persist-into-adulthood), [BBC News](http://www.bbc.co.uk/news/health-23080636), [MedPage Today](http://www.medpagetoday.com/AllergyImmunology/Asthma/40145), [WebMD](http://www.webmd.boots.com/asthma/news/20130628/children-grow-out-of-asthma), [Science Daily](http://www.sciencedaily.com/releases/2013/06/130628092151.htm)

1. **Belsky DW\***, Moffitt TE, Caspi A. Genetics in population health science: Strategies and opportunities. [*American Journal of Public Health*](http://ajph.aphapublications.org/doi/pdf/10.2105/AJPH.2012.301139), 103:S73-S83, 2013. PMC3786748
2. **Belsky DW\***, Moffitt TE, Sugden K, Williams B, McCarthy J, Caspi A. Development and evaluation of a genetic risk score for obesity. [*Biodemography & Social Biology*](http://www.tandfonline.com/doi/abs/10.1080/19485565.2013.774628#.U9gB8o1dVd8), 59:85-100*,* 2013. PMC3671353.
3. **Belsky DW\***, Caspi A, Goldman-Mellor S, Meier MH, Poulton R, Moffitt TE. Is obesity associated with a decline in intelligence quotient during the first half of the life course? [*American Journal of Epidemiology*](http://aje.oxfordjournals.org/content/172/7/809), 178:1461-1468, 2013. PMC3813310
4. Israel S, Moffitt TE, **Belsky DW**, Hancox RJ, Poulton R, Roberts B, Thompson WM, Caspi A. Translating personality psychology to help personalize preventive medicine for young adults. *Journal of Personality & Social Psychology*, 106:484-498, 2014*.* PMC3951727
5. Caspi A, Houts R, **Belsky DW**, Goldman-Mellor S, Harrington HL, Israel S, Meier MH, Ramrakha S, Shalev I, Poulton R, Moffitt TE. The `p factor’: One general psychopathology factor in the structure of psychiatric disorders? *Clinical Psychological Science*, 2:119-137, 2013. PMC4209412
6. Meier MH, Shalev I, Moffitt TE, Kapur S, Keefe RSE, Wong T, **Belsky DW**, Harrington HL, Hogan S, Houts R, Caspi A, Poulton R. Microvascular abnormality in schizophrenia as shown by retinal imaging. *American Journal of Psychiatry*, 170:1451-1459, 2013. PMC3857729
7. Meier MH, Caspi A, Houts R, Slutske WS, Harrington HL, Jackson KM, **Belsky DW**, Poulton R, Moffitt TE. Prospective developmental subtypes of alcohol dependence from age 18 to 32 years: Implications for nosology, etiology, and intervention. *Development & Psychopathology*, 25:785-800, 2013. PMC3725643

**2012**

1. **Belsky DW\***, Moffitt TE, Houts RH, Bennett GG, Biddle AH, Blumenthal J, Evans JP, Houts RH, Sugden K, Williams B, Poulton R, Caspi A. Polygenic risk, rapid childhood growth, and the development of obesity: Evidence from a 4-decade longitudinal study. *Archives of Pediatrics & Adolescent Medicine* (now [*JAMA Pediatrics*](http://archpedi.jamanetwork.com/article.aspx?articleid=1171937)), 166:515-521, 2012. PMC3534740

Editorial by JR Fernandez, “Translating developmental genetic findings into obesity-related clinical practice: Are we there yet?” *Archives of Pediatrics & Adolescent Medicine*, 166:576-577, 2012. Letter by RP Young & RJ Hopkins. “Genetic risk in childhood obesity: Implications for clinical practice.” *JAMA Pediatrics*, 167:196-198, 2013. Reply by JR Fernandez, “Genetic risk in childhood obesity: Implications for clinical practice—Reply.” *JAMA Pediatrics*, 167:196-198, 2013.

[US News and World Report](http://health.usnews.com/health-news/news/articles/2012/06/04/some-genes-seem-to-raise-risk-of-obesity-study); [Reuters](http://www.reuters.com/article/2012/06/05/us-black-girls-exercise-idUSBRE85414720120605); [MedicalXpress](http://medicalxpress.com/news/2012-06-genetics-rapid-childhood-growth-obesity.html); [Health Magazine](http://en.paperblog.com/can-a-genetic-test-say-why-you-are-fat-240346/); [Medscape](https://navnode.appspot.com/www.medscape.com/viewarticle/765048)

1. **Belsky DW**, Caspi A, Arseneault L, Bleidorn W, Fonagy P, Goodman M, Houts R, Moffitt TE. Etiological features of borderline personality-related characteristics in a cohort of 12-year old children. [*Development & Psychopathology*](http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=8481653&fileId=S0954579411000812), 24:251-265, 2012*.*PMC3547630
2. Fisher H, Moffitt T, Houts R, **Belsky DW**, Arseneault L, Caspi A. Bullying victimization and risk of self-harm in early adolescence: Longitudinal cohort study. *BMJ*, 344:e2683, 2012. PMC3339878
3. Ricketts TC, **Belsky DW**. Medicare costs and surgeon supply in Hospital Service Areas. *Annals of Surgery*, 255:474-477, 2012.

**2011 and Before**

1. Moffitt TE, Arseneault L, **Belsky DW**, Dickson N, Hancox RJ, Harrington HL, Houts R, Poulton R, Roberts BW, Ross S, Sears MR, Thomson WM, Caspi A. A gradient of childhood self-control predicts health, wealth, and public safety. *Proceedings of the National Academy of Sciences of the United States*, 108:2693-2698, 2011. PMC3041102
2. Sloan FA, Costanzo PR, **Belsky DW**, Holmberg E, Malone PS, Wang Y, Kertesz S. Heavy drinking in early adulthood and outcomes at mid-life. *Journal of Epidemiology & Community Health*, 65:600-605, 2011. PMC3573762
3. **Belsky DW**, Moffitt TE, Melchior M, Arsenault L, Caspi A. Context and sequelae of food Insecurity in children’s development. [*American Journal of Epidemiology*](http://aje.oxfordjournals.org/content/172/7/809.long), 172:809-818, 2010. PMC2984258
4. **Belsky DW**, Ricketts T, Poley S, Gaul K, Fraher E, Sheldon G. Surgical deserts in the US: Places without surgeons. [*Bulletin of the American College of Surgeons*](http://www.acshpri.org/documents/ACSHPRI_FS2.pdf), 95 (9):32-35, 2010.
5. Melchior M, Caspi A, **Belsky** D, Moffitt TE. Nutritional-assistance programs play a critical role in reducing food insecurity – In Reply. *Pediatrics*, 125(5):e1267-e1268, 2010.
6. Poley S, Ricketts T, **Belsky DW**, Gaul K. Pediatric surgeons: Subspecialists increase faster than generalists. *Bulletin of the American College of Surgeons*, 95 (10):36-39, 2010.
7. Fraher EF, **Belsky DW**, Gaul K, Carpenter J. Factors affecting attrition from associate degree nursing programs in North Carolina. *Cahiers de Sociologie et de Démographie Médicales*, 50:213-246, 2010.
8. Poley S, **Belsky DW**, Gaul K, Ricketts T, Fraher E, Sheldon G. Longitudinal trends in the US surgical workforce 1981-2006. *Bulletin of the American College of Surgeons*, 94 (8):27-31, 2009.
9. Sloan FA, **Belsky DW**, Ruiz D, Lee PP. Changes in incidence of diabetes mellitus-related eye disease among U.S. elderly persons, 1994-2005. *Archives of Ophthalmology*, 126:1548-1553, 2008. PMC3578924
10. Sloan FA, **Belsky DW**, Boly IA. Prevalence of major eye diseases among U.S. Civil War veterans, 1890-1910. *Archives of Ophthalmology,* 126:246-250, 2008. PMC3576890
11. Stein JD, Ruiz D, **Belsky DW**, Lee PP, Sloan FA. Longitudinal rates of postoperative adverse outcomes after glaucoma surgery among Medicare beneficiaries - 1994 to 2005. *Ophthalmology*, 115:1109-1116, 2008. PMC3576429
12. Costanzo PR, Malone PS, **Belsky DW**, Kertesz S, Pletcher M, Sloan FA. Longitudinal differences in alcohol use in early adulthood. *Journal of Studies on Alcohol and Drugs*, 68:727-737, 2007.
13. Humphreys M, Costanzo P, Haynie KL, Ostbye T, Boly I, **Belsky DW**, Sloan F. Racial disparities in diabetes a century ago: Evidence from the pension files of U.S. Civil War veterans. S*ocial Science and Medicine*, 64:1766-1775, 2007.
14. Bethel MA, Sloan FA, **Belsky DW**, Feingloss MN. Longitudinal incidence and prevalence of adverse outcomes of diabetes mellitus in elderly patients. *Archives of Internal Medicine*, 167:921-927, 2007
15. Salm M, **Belsky DW**, Sloan FA. Trends in cost of major eye diseases to Medicare, 1991 to 2000. *American Journal of Ophthalmology*, 142:976-982, 2006.

**Fact Sheets, Reports, Blog Posts**

Harden KP, **Belsky DW**. Predicting education from DNA? [Jacobs Foundation Blog on Learning and Development (BOLD)](https://bold.expert/predicting-education-from-dna/)

**Belsky DW**. The Genetics of Success: Life-course sociogenomic analysis of genetic discoveries for educational attainment. NIH [Office of Behavioral and Social Sciences Research Blog](https://obssr.od.nih.gov/genetics-of-success/)

**Belsky DW**. Why should we study the genetics of success? [Jacobs Foundation Blog on Learning and Development (BOLD)](http://bold.expert/why-should-we-study-the-genetics-of-success/)

Moskalev et al. (including DW Belsky among 50+ co-authors). A review of biomedical innovations for healthy longevity. *Aging (Albany)* 9(1):7-25, 2017

Marsman D, **Belsky DW**, Gregori D, Johnson MA, Low Dog T, Meydani S, Pigat S, Sadana R, Shao A, Griffiths JC. Healthy ageing: The natural consequence of good nutrition – a conference report. *European Journal of Nutrition*, 57(Suppl 2):15-34, 2018.

Fraher EP, **Belsky DW**, Carpenter JM, Gaul K. A Study of Associate Degree Nursing Program Success. Prepared for the North Carolina Community College System. <http://www.shepscenter.unc.edu/hp/publications/NCCCS_ADN_Report.pdf>, Accessed February 11, 2008.

**Belsky DW**, Sloan FA. Interim Report: Health and Survival Effects of Advanced Medical Technologies—Eye Diseases. Prepared for the Institute of Medical Technology Innovation, 2005.

**Honors & Awards**

2019 Canadian Institute for Advanced Research CBD Network Fellow

2018 Jacobs Foundation Young Scholar

2015 Jacobs Foundation Early Career Research Fellowship (2016-18)

2014 National Institute on Aging Butler Williams Scholar

2012 NIH Loan Repayment Program Award from the National Institute on Minority Health and Health Disparities

2012 Postdoctoral Fellowship, NIA, Center for the Study of Aging and Human Development, Duke University Medical Center

2012 Delta Omega Academic Excellence Award, Awarded by the Department of Health Policy & Management, Gillings School of Public Health, University of North Carolina at Chapel Hill

2011 NRSA Predoctoral Fellowship, AHRQ

2010 Predoctoral Fellowship, NICHD, Carolina Consortium for Human Development

Conference Travel Awards: American Psychopathological Association 2010, 2012; Integrating Genetics & Social Science 2012-2015; Gerontological Society of America 2014

**Research Positions**

Dec 2018- *Assistant Professor*Columbia University Mailman School of Public Health, New York NY
[Department of Epidemiology](https://www.mailman.columbia.edu/people/our-faculty/db3275)
[Robert N Butler Columbia Aging Center](https://aging.columbia.edu/about/people/Belsky)

2015-2018 *Assistant Professor*Duke University School of Medicine, Durham NC
Department of Population Health Sciences (from 2017)Department of Medicine (from 2015)
Duke University, Durham NC
Social Science Research Institute (from 2014)

2012-2014 *T32 Postdoctoral Fellow, NIA*
Center for the Study of Aging, Duke University Medical Center, Durham NC
Supervisors: A Caspi & TE Moffitt

2011-2012 *R36* *Predoctoral Fellow, AHRQ*
Department of Health Policy & Management, Gillings School of Public Health, University of North Carolina at Chapel Hill, Chapel Hill NC
Supervisors: JP Morrissey, JP Evans, AK Biddle, A Caspi, JA Vernon

2010-2011 *T32 Predoctoral Fellow, NICHD*
Carolina Consortium for Human Development, Center for Developmental Science, University of North Carolina at Chapel Hill, Chapel Hill NC
Supervisor: JP Morrissey, JP Evans, AK Biddle, A Caspi, JA Vernon

2008-2009 *Analyst*
American College of Surgeons Health Policy Research Institute, Cecil G. Sheps Center for Health Services Research, Chapel Hill NC
Supervisor: T Ricketts

2006-2007 *Country Coordinator*
Positive Outcomes for Orphans Study, Battambang Cambodia
Supervisor: K Whetten

2005-2007 *Associate in Research*
Center for Health Policy, Duke University, Durham NC
Supervisor: FA Sloan

**Non-Departmental Affiliations**

Member, [Human Capital and Economic Opportunity Network on Health Inequality](https://hceconomics.uchicago.edu/networks/hi)

Fellow, [Canadian Institute for Advanced Research Child Brain Development Network](https://www.cifar.ca/research/programs/child-brain-development)

Core Faculty, [Columbia University Aging Center](https://aging.columbia.edu/)

Faculty Affiliate, [Columbia University Population Center](https://cupop.columbia.edu/)

**Past**

Faculty Scholar, [Duke University Population Research Institute](https://dupri.duke.edu/)

Senior Fellow, [Duke University Center for the Study of Aging](https://sites.duke.edu/centerforaging/)

Faculty, [Carolina Population Center Biosocial Training Program](https://www.cifar.ca/research/programs/child-brain-development)

**Research Support**

**PENDING**

R01AG066887 Genetic analysis of the Dutch Hunger Winter Families Study to Boost Rigor and Robustness for Testing In-Utero Famine Effects on Aging-Related Health Conditions and Biological Aging
Role: MPI w/ L Lumey

**CURRENT**

R01AG061378 Genomic analysis of the CALERIE Trial to generate new knowledge for geroscience
Role: PI
Project Period: 7/1/2019-3/31/2024
Total Costs: $2.2m

Russel Sage Foundation BioSS Grant 1810-08987: Life-course sociogenomic analysis of social inequalities in aging.
Role: PI
Project Period: 4/1/2019-3/31/2021
Direct Costs: $167,303

Jacobs Foundation Young Scholars Award: Developing epigenetic measurements to forecast long-term benefits of early-life interventions.
Role: Co-PI with S Mostafavi, K O’Donnell, N Provencal.
Project Period: 2019-2020
Direct Costs: 160,000 CHF

NIA Center for Population Health and Aging Pilot Research Grant: A pilot study to reverse-translate measures of biological aging to Cynomolgus Monkeys to test causal effects of social disadvantage on biological aging.
Role: co-PI w J Tung
Direct Costs: $25,000
Parent Grant: P30AG034424, PI A. O’Rand

Jacobs Foundation Early Career Research Fellowship 2015-1170-09
Role: PI
Project Period: 2016-2018 (no-cost extension through 2019)
Direct Costs: 150,000 CHF

R21AG054846 A pilot study to advance translation of molecular signatures of aging
Role: PI
Project Period: 3/15/2017-2/28/2019 (no-cost extension through 2/28/2020)
Direct Costs: $275,000

R01-AG057800 Life Course Process of Alzheimer's Disease: Sex Difference and Biosocial Mechanisms (PI Yang)
Role: Co-Investigator
Project Period: 9/15/2017-5/31/2022

R01AG032282 Aging in 1000 healthy young adults: The Dunedin Study; National Institute on Aging (PI Moffitt)
Role: Co-Investigator
Project Period: 7/1/2015 - 6/30/2020

UH2AG056925 Physical Resiliencies: Indicators and Mechanisms in the Elderly Collaborative (PIs Colon-Emeric, Whitson)
Role: Co-Investigator
Project Period 9/30/2017-5/31/2019

CIHR CLSA Catalyst grant “Health-age”: A novel measure of healthy aging in older Canadian adults. (PI Verschoor)
Role: Co-Investigator
Project Period: 2019-2020

CIHR417007 Geroscience Demonstration Grant: Early-Life Stress Accelerates Aging (PI Bowdish)
Role: Co-Investigator
Project Period: 2019-2022

**COMPLETED**

NIA Claude D. Pepper Older Americans Independence Center Career Development Award, Quantification of Molecular Signatures of Resilience in Aging.
Role: PI
Project Period 7/1/2016-6/31/2018
Direct Costs: $120,000
Parent Grant: P30AG028716, PI M. Morey & K. Schmader

CALERIE Biorepository Pilot Research Grant, A Pilot Study to Assess Whole-genome DNA Methylation from Peripheral Blood in the CALERIE Biobank and to Compare Epigenetic and Physiological Quantifications of Biological Aging.
Role: PI
Project Period: 1/1/2017-12/31/2017
Total Cost: $100,000
Parent Grant: U24AG047121

NIA Center for Population Health and Aging Pilot Research Grant: Advancing translation of molecular signatures of biological aging: A pilot study.
Role: PI
Project Period: 1/1/2016-12/31/2016
Direct Costs: $25,000
Parent Grant: P30AG034424, PI A. O’Rand

NIA Network on Life Course Health Dynamics and Disparities in 21st Century America Pilot Research Grant, Building a Data Resource to Test for Increasing Selectivity of Persons at the Low End of the Educational Continuum: Harmonizing Measures in the National Longitudinal Study of Adolescent to Adult Health and the Health and Retirement Study.
Role: PI
Project Period: 7/1/2016-6/31/2017
Total Costs: $12,500
Parent Grant: R24AG045061, PIs E Crimmins, M Hayward, R Hummer, J House

R01AG048895 Generating new knowledge to support reversibility interventions; National Institute on Aging (PI Moffitt)
Role: Co-Investigator
Project Period: 9/1/2014-4/1/2016

NIA Claude D. Pepper Older Americans Independence Center Pilot Research Grant, A Pilot Study to Identify Physiological Vulnerabilities to Accelerated Functional Decline.
Role: PI
Project Period 3/31/2014-3/31/2015
Direct Costs: $38,193
Parent Grant: P30AG028715, PI H. Cohen

R01HD060726 Social demographic moderation of genome-wide associations for body mass index; National Institute of Child Health and Development (PI Boardman, McQueen)
Role: Co-I
Project Period: 9/24/2010-5/31/2015

NIA Center for the Study of Aging and Human Development Postdoctoral Training Grant (T-32)
Role: Postdoctoral Fellow
Project Period 09/01/2012 – 09/01/2014
Parent Grant: T32AG000029

NIDA Transdisciplinary Prevention Research Center Seed Grant, Do Smoking-associated Genetic Variants Underlie a Spectrum of Externalizing Behavior?
Role: Co-PI (with MH Meier)
Project Period 05/15/2012-06/30/2012
Direct Costs $3,733
Parent Grant: P30DA023026, PI R. Hoyle

1R36HS020524-01, Evaluating the Comparative Effectiveness of Genomic Health Risk Assessments; Agency for Health Care Research & Quality.
Role: PI
Project Period 02/01/2011 – 07/01/2012
Direct Costs $40,532

NICHD Ruth L. Kirschstein National Research Service Award (NRSA) Predoctoral Training Grant (T-32) at the Carolina Consortium for Human Development
Role: Predoctoral Fellow
Project Period: 6/15/2010 – 06/15/2011
Parent Grant: HD007376, PI A. Hussong

Trondheim Early Secure Study (TESS)
Explaining Overweight and Physical Activity in Young Children: A Bio‐Psycho‐Social and Ecological Model, Research Council of Norway grant 213793/H10
Norwegian University of Science and Technology, Trondheim, Norway
Role: Co-investigator

**Service**

Editorial Board Member: *Journals of Gerontology A: Biological Sciences*

Institutional Review Board Member 2017-2018, Duke University School of Medicine

Executive Committee Member 2017-2018, Duke University Population Research Institute

External Scientific Committee 2016-, CALERIE Biorepository

Study Section (Center for Scientific Review):

U19 AG066611-01, Measuring Biomarkers of Aging in the TAME Trial, September 2019

NIA Special Emphasis Panel ZAG1 ZIJ-G (O1), May 2019

Special Emphasis Panel on Social Epigenomics Research Focused on Minority Health and Health Disparities, 2017-2019

Social Sciences and Population Studies Section B, Feb 2016

NIA Social and Behavioral Sciences Standing Study Section, Feb 2016

Other Grant Review: Asthma UK 2013; Russell Sage Foundation 2015; Israel Science Foundation 2016; Nuffield Foundation 2019; Swiss National Science Foundation 2019.

External reviewer, National Academies of Science and Engineering Workshop Proceedings, Nutrition Across the Lifespan for Healthy Aging, 2017 ([download](https://www.nap.edu/login.php?record_id=24735&page=https%3A%2F%2Fwww.nap.edu%2Fdownload%2F24735))

Conference Review: Abstract Reviewer, World Congress of Gerontology & Geriatrics (2017), Gerontological Society of America Annual Meeting (2016), American Public Health Association Annual Meeting (Maternal & Child Health, Mental Health Sections; 2011, 2012); Dissertation Award Reviewer, Society for Research in Child Development (2011, 2012).

Dissertation Committees: David B Braudt, Sociology, UNC Chapel Hill 2019

**Ad Hoc Journal Reviewer**

Biomedicine & Public Health

Am J Epidemiology

Am J Psychiatry

Am J Public Health

Behavior Genetics

Biological Psychiatry

Circulation: Cardio Genet

Experimental Gerontology

Int J Obesity

JAGS

JAMA

JAMA Pediatrics

JAMA Psychiatry

J Geron A Biol Sci Med Sci

J Geron B Psych Sci Soc Sci Molecular Psychiatry

Nature Human Behavior

Nature Genetics

Nature Neuroscience
Pediatrics

PLoS Genetics

PNAS

Translational Psychiatry

Social Science

Biodemog & Soc Biol

Child Development

Demography

Developmental Psychology

Psychological Science

**Invited Journal Articles** (includes only articles responding to invitations to Belsky)

Appetite for prevention: Genetics and developmental epidemiology join forces in obesity research. [*JAMA Pediatrics*](http://archpedi.jamanetwork.com/article.aspx?articleid=1831290), 168(4):309-311, 2014. (Invited Commentary)

Gene-environment interaction research in psychiatric epidemiology: A framework and implications for study design. [*Social Psychiatry & Psychiatric Epidemiology*](http://link.springer.com/article/10.1007/s00127-014-0954-5)*,* 49(10):1525-1529, 2014. PMC4174337 (Invited Perspective)

Lessons for research on cognitive aging from a study of children. [*American Journal of Epidemiology*](http://aje.oxfordjournals.org/content/early/2016/05/24/aje.kww029.abstract), 183(12):1083-1085, 2016. (Invited Commentary)

Swedish Register analysis of divorce and alcohol use disorder highlights social relationships as a target for preventive psychiatry and genetic research. With Leah Richmond-Rakerd. [*American Journal of Psychiatry*](http://ajp.psychiatryonline.org/doi/full/10.1176/appi.ajp.2017.17020170), 174(5): 411-413, 2017*.* (Invited Commentary)

Integrating genomics and social epidemiology. With Noah Snyder-Mackler. [*American Journal of Epidemiology*](https://academic.oup.com/aje/article/doi/10.1093/aje/kwx145/4049569/Invited-Commentary-Integrating-Genomics-and-Social), 186(5):510-13, 2017. (Invited Commentary)

Translating polygenic analysis for prevention: from “who” to “how”. [*Circulation: Cardiovascular Genetics*](http://circgenetics.ahajournals.org/content/10/3/e001798), 10:e001798, 2017. (Invited Commentary)

Life-course longitudinal studies are needed to advance integration of genomics and social epidemiology. [*American Journal of Epidemiology*](https://academic.oup.com/aje/article/187/6/1337/4967659), 187(6)1337-8, 2018. (Reply to Letter to the Editor)

To the freezers! Stored biospecimens from human randomized trials are an important new direction for studies of biological aging. (with Amal Haratti), [*Journals of Gerontology A: Medical Sciences*](https://www.thessgac.org/data),74(1):89-90, 2019.(Invited Commentary)

**Invited Lectures**

2019 National Institute on Aging, Butler Williams Scholars Program, Bethesda, MD

2019 University of Washington, Center for Demography and Ecology, Seattle, WA

2019 Wake Forest School of Medicine, Stricht Center for Healthy Aging, Winston-Salem NC

2018 University of Chicago School of Medicine, Chicago IL

2018 University of Wisconsin La Follette School of Public Affairs, Madison WI

2018 University of Southern California School of Gerontology, Los Angeles CA

2017 University of Southern California Center for Economic and Social Research, Los Angeles CA

2017 Columbia University Mailman School of Public Health, Dept. of Epidemiology, New York NY

2017 Stanford University Graduate School of Education, Center for Education Policy Analysis (online at [CEPA](https://youtu.be/F7Y6lZoRJx0)), Palo Alto, CA

2016 University of North Carolina, Carolina Population Center, Chapel Hill NC

2016 Princeton University Office of Population Research, Princeton NJ

2016 Harvard T.H. Chan School of Public Health, Department of Social & Behavioral Sciences, Boston MA

2016 University of Southern California, Population Research Institute, Los Angeles CA

2016 Columbia University, University-wide Seminar (USEM), New York NY

2015 Rutgers University, Department of Nutrition, New Brunswick NJ

2015 University of Colorado, Boulder, Department of Integrative Physiology, Boulder CO

2015 Pennsylvania State University, Department of Biobehavioral Health, University Park PA

2014 Duke University, Sanford School of Public Policy, Durham NC

2014 University of Iowa School of Public Health, Department of Health Management & Policy, Iowa City IA

2014 University of North Carolina, Carolina Population Center, Chapel Hill NC

2014 Johns Hopkins University Bloomberg School of Public Health, Department of Mental Health, Baltimore MD

2012 Columbia University Mailman School of Public Health, Dept. of Epidemiology, New York NY

**Invited Conference Presentations**

DOHaD World Congress, NIA Reversibility Network Prefconference: Emerging research on later-life interventions to remediate and redirect unhealthy lifecourse trajectories induced by early life adversities. Quantification of biological aging. Melbourne, Australia, October 2019.

HCEO Conference on Genes, Schools and Interventions that Address Educational Inequality. Austin Tx, December 2018.

CIFAR Child Brain Development Network Meeting. “Integrating genomics and population health sciences: Theory and translational research agenda”. Toronto, CA, October 2018.

WHO Clinical Consortium on Healthy Aging “Informal Meeting on Conceptualization and Operationalization of Vitality.” Geroscience, Vitality, and Health Aging. New York, NY, September 2018.

CALERIE Biorepository Annual Meeting. Genomic analysis of the CALERIE trial to generate new knowledge for geroscience. Chicago, IL, August 2018.

NCI and NIA “Measuring Aging and Identifying Aging Phenotypes in Cancer Survivors Think Tank Meeting”. Quantification of Biological Aging: Approaches to Validation. Rockville, MD, July 2018. (delivered lecture remotely)

Interventions to Extend Healthspan and Lifespan. Quantification of biological aging: Implication for clinical trials of geroprotective therapies. Kazan, Russia, April 2018.

Jacobs Foundation – CIFAR Annual Conference: Reconciling Genes & Contexts. Marbach, Germany, April 2018. (Young Scholar)

Jacobs Foundation Research Fellows Meeting. Marbach, Germany, April 2018. (Fellow)

Keystone Symposium on Aging, Inflammation, and Immunity. Quantification of biological aging: Implication for clinical trials of geroprotective therapies. Austin TX, February 2018.

The Science of Immorbidity, Janssen Prevention Center, Amsterdam NL, October 2017. “Quantification of Biological Aging to Inform Clinical Trials of Therapies to Extend Healthspan.”

CALERIE Research Network Workshop, Bethesda MD, September 2017. “Does caloric restriction slow biological aging? Pilot epigenetic analysis of the CALERIE trial.”

International Association for Gerontology & Geriatrics Annual Meeting, San Francisco CA, July 2017. Symposium on Biomarkers of Human Aging, Chair Ronald Kohanski, NIA. “Quantification of Biological Aging for Testing Geroprotective Interventions.”

NIA/ Institute for Social Research Summer Institute on Genomics for Social Scientists, Ann Arbor MI, June 2017. “Polygenic Scores: Integrating Genetics and Social Science.”

Glenn/AFAR Conference on the Biology of Aging, Santa Barbara CA, June 2017. “Quantification of Biological Aging to Speed Translation of Geroprotective Therapies.”

Jacobs Center, Add Health Transcription Meeting, Schloss Marbach, Germany, May 2017. “The Dunedin Study & Adventures in Genome Science.”

NIA Network on Life Course Health Dynamics and Disparities Meeting, Chicago IL, April 2017. “Sociogenomic analysis of social mobility and Increasing selectivity of low educational attainment across birth cohorts.”

University of Southern California Dornsife Center for Economic and Social Research, SSGAC Conference on Polygenic Prediction and its Application in the Social Sciences, April 2017. “Sociogenomic analysis of social mobility.” (video)

Jacobs Foundation Fellows Meeting, Austin TX, April 2017. “Neighborhoods and positive youth development: Sociogenomic analysis.”

NIA Frontiers in Aging and Regeneration Research Summer Institute, New Orleans LA, May 2016. “Quantification of biological aging in young adults.”

University of California Berkeley Population Center, Genes and Complex Human Phenotypes Conference, May 2016. “The genetics of success.”

Biomedical Innovation for Healthy Longevity International Conference, St. Petersburg, Russia, April 2016. “Quantification of biological aging in young adults.”

Columbia University Population Center, Gene-environment Interactions in the Era of Genome-wide Data: Conceptual and Analytic Approaches, New York NY, April 2016. “The genetics of success.”

NIA Expert Meeting on Assessing and Encouraging Interaction between Genetics and Social-Behavioral Models. Washington DC, August 2014. “Integrating genetics and social science: Genetic risk scores.”

NHGRI Summer Institute on Applications of Genomics to Public Health Challenges. Bethesda MD, May 2014. “A developmental approach to genetic epidemiology.”

**Conference Presentations** (includes only my presentations and symposium chair-ships)

Gerontological Society of America Annual Meeting, Boston MA, November 2018. “Quantification of biological aging for testing geroprotective interventions.”

Integrating Genetics and Social Science, Boulder CO, October 2018. “Genetics and the geography of health, behavior, and attainment.”

Integrating Genetics and Social Science, Boulder CO, October 2017. “Sociogenomic analysis of social mobility.”

International Association for Gerontology & Geriatrics Annual Meeting, San Francisco CA, July 2017.

* “Quantification of Biological Aging for Testing Geroprotective Interventions.” Symposium on Measuring Physical Resilience in Older Adults
* “Impact of Early Personal History Characteristics on the Pace of Aging.” Symposium on How young and full adult lifespan cohorts contribute to understanding late-life function.
* “Quantification of Biological Aging for Testing Geroprotective Interventions.” Symposium on Biomarkers of Human Aging.
* Chair, Symposium on Quantification and Analysis of Biological Aging: Genetic, Genomic, and Biomarker Geroscience Tools.

Population Association of America Annual Meeting, Chicago IL, April 2017.

* Talk: “Telomere, epigenetic clock, and biomarker composite quantifications of biological aging: Do they measure the same thing?”
* Talk: “Sociogenomic analysis of life-course social mobility.”

Society for Research in Child Development Annual Meeting, Austin Tx, April 2017.

* Chair, Symposium on Integrating genetic discoveries for educational attainment and human development research.
* Symposium presentation “The genetics of success.”

Gerontological Society of America Annual Meeting, New Orleans LA, November 2016. “Impact of early personal history characteristics on the pace of aging: Implications for clinical trials of therapies to slow aging and extend healthspan.” (Poster)

Integrating Genetics and Social Science, Boulder CO, October 2016. “Integrative analysis of genome-wide associations between DNA methylation and RNA expression in human blood: a caution for interpretations of epigenome-wide association studies.”

Jacobs Foundation Research Fellows Meeting, Erice, Sicily, September 2016. “The genetics of success.”

NBER Cohort Studies Meeting, Los Angeles CA, April 2016. “The genetics of success: How SNPs associated with educational attainment relate to life course development.”

National Institute on Aging Claude D. Pepper Older Americans Independence Center Annual Meeting, Washington DC, April 2016. “Impact of early-life personal history characteristics on biological aging: Implications for trials of therapies to slow aging and extend healthspan.” (Poster)

NIA 2016 Advances in Geroscience: Disease Drivers of Aging, New York NY, April 2016. “Impact of early-life personal history characteristics on biological aging: Implications for trials of therapies to slow aging and extend healthspan.” (Poster)

Gerontological Society of America Annual Meeting, November 2015, Orlando, FL.

* Chair, Symposium “Molecular signatures of aging: From bioinformatics to translational geroscience,” with Alan Cohen. Symposium participants Paola Sebastiani, Analtoliy Yashin, Vincent Morissett-Thomas, and myself; Nir Barzilai discussant.
* Symposium presentation: “Molecular signatures of aging in young adults: Functional and subjective correlates.”

Integrating Genetics and Social Science, October 2015, Boulder, CO. “A sociogenomic analysis of life attainments.”

Population Association of America Annual Meeting, April 2015, San Diego CA.

* Talk: “Quantification of biological aging in young adults.”
* Discussant, Genetic risk, family environment, and the life course.

NBER Cohort Studies Meeting, April 2015, Boston MA. “Quantification of biological aging in young adults.”

Gerontological Society of America, November 2014, Washington DC. “Aging in 1000 young adults.”

Integrating Genetics and Social Science, October 2014, Boulder CO. “Polygenic risk and the pace of aging.”

Population Association of America, May 2014, Boston MA.

* Talk: “Is chronic asthma associated with shorter leukocyte telomere length?”
* Discussant, Biosocial Perspectives on Child and Adolescent Development.

Integrating Genetics & Social Science, October 2013, Boulder CO. “Genetics in Population Health Science: Strategies & Opportunities.”

Population Association of American Annual Meeting, April 2013, New Orleans LA. Contributions of Genetics to Understanding Health, Aging, and Mortality. (Discussant)

American Psychopathological Association Annual Meeting, March 2013, New York NY. “Polygenic risk, gateway nicotine exposure, and the development of substance dependence: Evidence from a 4-decade longitudinal study.” (Poster)

International Society of Psychoneuroendocrinology Annual Conference, September 2012, New York NY. “Gene-environment interaction in the development of smoking behavior.” (Poster)

Integrating Genomics and Social Science, August 2012, Boulder CO. “Polygenic risk accelerates the developmental progression of smoking behavior.”

American Psychopathological Association Annual Meeting, March 2012, New York NY. “Polygenic risk accelerates the developmental progression of smoking behavior.” (Poster)

Integrating Genomics and Social Science, June 2011, Boulder CO. “Development and evaluation of a genomic risk score for obesity.”

American Psychopathological Association Annual Meeting, March 2010, New York NY. “A test of diathesis-stress theories of etiology of borderline personality disorder.” (Poster)

American Public Health Association Annual Meeting, November 2010, Denver CO. “Biosocial interaction in the etiology of adolescent self-harm behavior.”

**Internal Talks & Presentations**

BrainGenEthics Seminar, Columbia University Irving Medical Center. GWAS discoveries for educational attainment: What do they mean? September 2019.

Basic Science Day, Duke University School of Medicine. Quantification of Biological Aging: Implications for Clinical Trials of Geroprotective Therapies. November 2017.

Geriatrics Grand Rounds. The Pace of Aging: Implications for Designing Clinical Trials of Geroprotective Therapies. November 2017.

Claude D. Pepper Older Americans Independence Center and Duke Molecular Physiology Institute, Data Integration Working Group. Change in the Rate of Biological Aging in Response to Caloric Restriction: CALERIE Biobank Analysis. January 2017.

Center for Population Health Sciences SYNERGY series. Quantification of biological aging for population health science. October 2016.

Center for the Study of Aging and Human Development Research and Education Retreat. (Keynote) Quantification of biological aging. September 2016.

Duke University Molecular Physiology Institute, Illumina Array Seminar. The genetics of success. September 2016.

Social Science Research Institute Staff Meeting. Quantification of biological aging. July 2016.

Duke Colloquium on Data and Medicine. The E-Risk longitudinal study: design and future directions. December 2015.

Claude D. Pepper Older Americans Independence Center and Duke Molecular Physiology Institute, Data Integration Working Group. Advancing translation of molecular signatures of biological aging. December 2015.

Duke Management Company (DUMAC) Inc. Sociogenomic analysis of life attainments: How SNPs associated with success in schooling shape the course of lives. Durham NC, October 2015.

National Evolutionary Synthesis Center. Quantification of biological aging in young adults. Durham NC, March 2015.

Duke University Population Research Institute (DuPRI). The genetics of success. March 2015.

Center for Developmental Epidemiology. The Dunedin Study. February 2015.

Division of Geriatrics Grand Rounds, Duke University Medical Center. Genetics, epidemiology, and aging science: A life course approach. December 2013.

Claude D. Pepper Older Americans Independence Center. A life-course approach to new genetic discoveries: The case of obesity. January 2013.

Duke University Population Research Institute (DuPRI). Informing public health approaches to obesity & smoking with genome-wide association studies: Genetic epidemiology affirms the importance of early prevention. October 2012.

Childhood Obesity Research (CORE), Department of Pediatrics, Duke University Medical Center. Polygenic risk for adult obesity is mediated by rapid childhood growth: Evidence from a 4-decade longitudinal study. March 2012.

Department of Psychology & Neuroscience. Genetic epidemiology affirms the importance of early prevention: Evidence from research on obesity and smoking. February 2012.

Duke University Institute for Genome Sciences and Policy Annual Retreat, November 2011, Chapel Hill NC. “Polygenic risk for adult obesity is mediated by rapid childhood growth.” (Poster)

**Additional Training (workshops & summer institutes)**

Summer Institute in Public Health Genomics. June 14-18, 2010. University of Washington, Seattle WA.

International Workshop in Statistical Genetics. March 7-11, 2011. University of Colorado, Boulder CO.

Summer Biomarker Institute. June 6-8, 2011, Northwestern University, Cells to Society (C2S): Center on Social Disparities and Health

Genome-Wide Analysis Workshop for Social Scientists. June 2, 2011, University of Colorado, Boulder CO. (repeated October 10, 2013, October 9, 2014)

Duke Bioinformatics Workshop. July 18-21, 2011. Duke University, Durham NC

Summer Institute in Aging Science (NIA Butler Williams Scholars Program). August 3-8, 2014. National Institute on Aging, Washington DC.

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**TEACHING EXPERIENCE**

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2019- Faculty Lead, Masters in Public Health Certificate Program in Health of an Aging Society, Columbia University Mailman School of Public Health

**Courses Taught**

2019 (Fall) EPI P8493: Life Course Epidemiology (Columbia University Mailman School of Public Health)

**Lectures**

2013-15 PSY 321: Personality & Individual Differences; PSY185FS: Decoding Human Behavior (Duke University)

2015 PubPol 241-01 & ChildPol 241-01:  Multi-Method Approaches to Social and Policy Research (Duke University)

2015 PubPol 590S: Advanced Topics in Public Policy – Biology in Public Discourse (Duke University)

2017 Soc 750: Demography of Aging (Duke University)

2017 Global Inequality Research Capstone: Examining Neuroscience, Genetics and Inequality (Duke University)

2019 PUBH GU4100 (Y)our Longer Life: Aging across the life-course (Columbia University)

2019 IPHY 3590 Health and Function over the Adult Lifespan (CU Boulder)

**Workshops and other Teaching/ Mentoring**

2017 HDV450S: Mentored Research Apprenticeship in Human Development (Student – Rimel Mwamba)

2017 Duke University School of Medicine, Department of Medicine Faculty Development Academy: “Getting Paper Writing Done”

2017 NIA/Institute for Social Research Summer Institute on Genomics for Social Scientists: Polygenic Scores

2017 HDV401: Research Apprenticeship in Human Development (mentored independent study)

2015-2017 Duke Aging Center Postdoctoral Training Seminar: Biological Aging

2015, 2016 Duke University Summer Medical and Dental Education Program: Policy Analysis

2012-2014 Undergraduate Academic Advisor, Duke University

2013 Workshop co-leader (with Karen Sugden) “An Introduction to Genetics for Developmental Scientists: Theory and Practice,” Center for Developmental Science, University of North Carolina at Chapel Hill (4 sessions; September-October 2013)

2012 Workshop organizer & panelist “Integrating Genomics in Developmental Science Research,” Center for Child and Family Policy Early Career Professional Development Group, Duke University (November 2012).

2007 Teaching Assistant, Department of Health Policy and Management, UNC Gillings School of Global Public Health, with Bruce Fried, PhD and Dean Harris, JD

2004-2005 Teacher, Advanced Placement Psychology (grade 12), English Literature (grade 11), European History (grade 9), Ancient Civilizations (grade 7), International School of Choueifat, Cairo, Egypt.