**Madeline H. Meier**

Department of Psychology, The College of Arts and Sciences, Arizona State University

Email: [Madeline.Meier@asu.edu](mailto:Madeline.Meier@asu.edu)

**Employment**

2020-present **Associate Professor of Psychology**, The College of Liberal Arts and Sciences, Barrett Honors Faculty, Arizona State University

2013-2020 **Assistant Professor of Psychology**, The College of Liberal Arts and Sciences, Barrett Honors Faculty, Arizona State University

**Education**

2010-13 **Postdoctoral Research Associate**, Department of Psychology and Neuroscience, Duke Transdisciplinary Prevention Research Center, Duke University

2010 **Doctor of Philosophy** (Clinical Psychology), University of Missouri

2009-10 **Pre-doctoral Clinical Internship**, Durham Veterans Affairs Medical Center (accredited by the American Psychological Association)

2004 **Master of Arts** (Clinical Psychology), University of Missouri

2001 **Bachelor of Arts**, University of Virginia

**Peer-Reviewed Publications**

Key:

\*\*Undergraduate student author

\*Doctoral student author

± Postdoctoral student author

**2024**

1. **Meier, M.H.**, Olive, M.F., \*\*Jenks, O.A., & \*\*Wernik, S.R. Cannabis use and cognitive functioning across the lifespan. *Current Addiction Reports*, 11, 384-395. (Invited review.)
2. **Meier, M.H.,** \*\*Hummel, H., & ±Miller, M.L. Trends in cannabis-related hospitalizations in Arizona from 2016-2021 and associations with mental health-related hospitalizations. *Journal of Studies on Alcohol and Drugs.*
3. **Meier, M.H.**, Elliott, M.L., & Knodt, A.R. Findings of no change in medical cannabis users’ fMRI-based brain activation have limited implications for actual brain function given the poor test-retest reliability of task-fMRI measures: A reply to Burdinski et al. (2024). *JAMA Network Open*, October 18, 2024.
4. Khalifeh,L., Caspi, A., Dent, K.R., Harrington,H., **Meier, M.H.**, Poulton, R., Ramrakha, S., Moffitt, T.E., & Richmond-Rakerd. (2024). Characterizing midlife-onset alcohol dependence: Implications for etiology, prevention, and healthy aging. *Clinical Psychological Science,* 0(0). [https://doi.org/10.1177/21677026241260249](https://urldefense.com/v3/__https:/doi.org/10.1177/21677026241260249__;!!IKRxdwAv5BmarQ!dhPJObOOwROsW3-3G0ZvDbZGHn2h5-EfiSamqTJGc2668IwAM93WO7ZPeqJLb3hGbHxO-04vajaOsFj4WUV2SQg$).

**2023**

1. **Meier, M.H.,** Meier, M.A., Anderson, S.F., Schaeffer, A., \*Waddell, J., \*\*Roman, B.A., \*\*Poling, S.L., and \*\*Barton, E.A. (2023). The effects of the 4/20 cannabis holiday and adult-use cannabis legalization on medical cannabis sales and medical cannabis patient registration in Arizona. *International Journal of Drug Policy, 114,* 103974*.*
2. National Academies of Sciences, Engineering, and Medicine. 2023. Substance

Misuse Programs in Commercial Aviation: Safety First. Washington, DC: The

National Academies Press. <https://doi.org/10.17226/27025>. (I am a co-author of this report.)

1. Braymiller, J.L., Riehm, K.E., **Meier, M.H,** Krueger, E.A., Unger, J.B., Barrington-Trimis, J.L., Cho, J, Lanza, H.I., Madden, D.R., Kechter, A., & Leventhal, A.M. (2023). Associations of alternative cannabis product use and poly-use with subsequent illicit drug initiation during adolescence. *Psychopharmacology,* 1-11*.*

**2022**

1. **Meier, M.H.**, Caspi, A., Ambler, A., Hariri, A.R., Harrington, H.L., Hogan, S., Houts, R., Knodt, A., Ramrakha, S., Richmond-Rakerd, L.S., Poulton, R., & Moffitt, T.E. (2022). Preparedness for healthy aging and polysubstance use in long-term cannabis users: A population-representative longitudinal study. *Lancet Healthy Longevity,* 3: e703–14.
2. **Meier, M.H.**, Caspi, A., Knodt, A., Hall, W., Ambler, A., Harrington, H.L., Hogan, S., Houts, R., Poulton, R., Ramrakha, S., Hariri, A.R., & Moffitt, T.E. (2022). Long-term cannabis use and cognitive reserves and hippocampal volume in midlife. *American Journal of Psychiatry,* 179, 362-374*.*
3. Knodt, A.R., **Meier, M.H,** Ambler, A., Gehred, M.Z., Harrington, H.L., Ireland, D., Poulton, R., Ramrakha, S., Caspi, A., Moffitt, T.E., and Hariri, A.R. (2022). Diminished structural brain integrity in long-term cannabis users reflects a history of polysubstance use. *Biological Psychiatry, 92*, 861-870.
4. \*Pelham, W. E., Corbin, W.C., & **Meier, M.H**. Validating a brief screening measure for early-onset substance use during adolescence in a diverse, nationwide birth cohort. (2022). *Addictive Behaviors,* 129, 107277.
5. \*Okey, S.A., \*Castro, S.A., \*Waddell, J.T., \*Jones, C.B., \*Blake, A.J., O’Rourke, H.P., Davis, M.C, & **Meier, M.H.** (2022). Are recreational cannabis laws associated with declining medical cannabis program enrollment in the US? An analysis of cardholder enrollment and demographic characteristics from 2013 to 2020. *International Journal of Drug Policy,* 100, 103531.
6. \*\*Berberian, S., \*\*Broussard, M.L., \*\*Tully, C., \*\*Methuki, V., Pardini, D.A., **Meier, M.H.** (2022). Young adults’ familiarity with different cannabis product terms: The need for standardized cannabis surveys. *Journal of Cannabis Research,* 4, 1-7*.*
7. \*Waddell, J.T., \*King, S.E., \*Okey, S.A., **Meier, M.H.**, Metrik, J., & Corbin, W.R. (2022). The anticipated effects of simultaneous alcohol and cannabis use: Initial development and preliminary validation. *Psychological Assessment*, *34*(9), 811–826.

**2021**

1. **Meier, M.H.** Cannabis use and psychosocial functioning: Evidence from prospective longitudinal studies. (2021). *Current Opinion in Psychology,* 38, 19-24*.* (Invited review.)
2. \*Waddell, J.T., Corbin, W.R., **Meier, M.H.**, Morean, M.E., & Metrik, J. (2021). The Anticipated Effects of Cannabis Scale (AECS): Initial development and validation of an affective- and valence-based expectancy measure. *Psychological Assessment,* 33,180-194.
3. \*Jones, C.B., **Meier, M.H**., Corbin, W.C., & Chassin, L. (2021). Adolescent executive cognitive functioning and trait impulsivity as predictors of young-adult risky drinking and alcohol-related problems. *Psychology of Addictive Behaviors,* 35, 187-198.

**2020**

1. **Meier, M.H.,** ± Beardslee, J., & Pardini, D. (2020). Associations between recent and cumulative cannabis use and internalizing problems in boys from adolescence to young adulthood. *Journal of Abnormal Child Psychology,* 48, 771-782.
2. \*Okey, S., **Meier, M.H.** A within-person comparison of the subjective effects of higher vs. lower-potency cannabis. (2020). *Drug and Alcohol Dependence,* 216,108225. <https://doi.org/10.1016/j.drugalcdep.2020.108225>
3. \*Hill, M.L., Wong, T.Y., Davis, M., & **Meier, M.H.** (2020). Associations between cannabis use and retinal vessel diameter in young adults. *Schizophrenia Research,* 219, 62-68.

**2019**

1. **Meier, M.H.,** ± Docherty, M., Leischow, S., Grimm, K., & Pardini, D. (2019). Cannabis concentrate use in adolescents. *Pediatrics,* 144, e201930338.
2. **Meier, M.H.,** ± Schriber, R., ± Beardslee, J., Hanson, J., & Pardini, D. (2019). Associations between adolescent cannabis use frequency and adult brain structure: A prospective study of men. *Drug and Alcohol Dependence,* 202, 191-199*.*
3. **Meier, M.H.,** Pardini, D., ± Beardslee, J. & Matthews, K.A. (2019). Associations between cannabis use and cardiometabolic risk factors: A longitudinal study of men*. Psychosomatic Medicine,* 81, 281-288.
4. \*Sternberg, A. \*Hill, M.L., Suk H.W., **Meier, M.H.**, & Chassin, L. (2019). Exploring cannabis-specific parenting as a mechanism of the intergenerational transmission of cannabis use and cannabis use disorder. *Journal of Studies on Alcohol and Drugs,* 80, 32-41.

**2018**

1. **Meier, M.H.**, Caspi, A., Danese, A., Fisher, H.L., Houts, R., Arseneault, L., & Moffitt, T.E. (2018). Associations between adolescent cannabis use and neuropsychological decline: A longitudinal cotwin-control study. *Addiction, 113,* 257-265.
2. **Meier, M.H.,** & \*\*White, M. (2018). Do young-adult cannabis users show amotivation? An analysis of informant reports. *Translational Issues in Psychological Science, 4,* 99-107*.*
3. \*Jones, C.B., **Meier, M.H.,** & Pardini, D. (2018). Comparison of the locations where young adults smoke, vape, and eat/drink cannabis: Implications for harm reduction. *Addictive Behaviors Reports*, 8, 140-146.
4. \*Hill, M.L., \*Sternberg, A., Suk H.W., **Meier, M.H.**, & Chassin, L. (2018). The intergenerational transmission of cannabis use: Associations between parental history of cannabis use and cannabis use disorder, low positive parenting, and offspring cannabis use. *Psychology of Addictive Behaviors, 32,* 93-103.
5. ± Beardslee, J., Donley, S., Byrd, A., **Meier, M.H.**, Prins, S., Cerda, M., & Pardini, D. (2018). An examination of parental and peer influence on substance use and criminal offending during the transition from adolescence to adulthood. *Criminal Justice and Behavior, 45,* 783-798*.*
6. Meier, M.A., & **Meier, M.H.** Clinical implications of a general psychopathology factor: A cognitive-behavioral transdiagnostic group treatment for community mental health. (2018). *Journal of Psychotherapy Integration, 28,* 253-268.

**2017**

1. **Meier, M.H.**  Associations between butane hash oil use and cannabis-related problems. (2017). *Drug and Alcohol Dependence, 179,* 25-31*.*

**2016**

1. **Meier, M.H.**, Caspi, A., Cerdá, M., Hancox, R.J., Harrington, H.L., Houts, R., Poulton, R., Ramrakha, S., Thomson, W.M., & Moffitt, T.E. (2016). Associations between cannabis use and physical health problems in early midlife: A longitudinal comparison of persistent cannabis versus tobacco users. *JAMA Psychiatry, 73,* 731-740*.*
2. **Meier, M.H.**,Hall, W., Caspi, A., Belsky, W., Cerdá, M., Harrington, H.L., Houts, R., Poulton, R., & Moffitt, T.E. (2016). Which adolescents develop persistent substance dependence in adulthood? Using population-representative longitudinal data to inform universal risk assessment. *Psychological Medicine, 46*, 877-889.
3. **Meier, M.H.,** \*Hill, M.L., & Breitborde, N.J.K. (2016). Retinal Imaging: A new tool for studying underlying liability to cardiovascular disease in schizophrenia. *Current Psychiatry Reviews, 12,* 326-334*.*
4. \*Jones, C.B.,\* Hill, M.L., Pardini, D., & **Meier, M.H.** (2016). Prevalence and correlates of vaping cannabis in a sample of young adults. *Psychology of Addictive Behaviors, 30,* 915-921.
5. Breitborde, N.J.K. & **Meier, M.H.** (2016). Cognition in first-episode psychosis: From phenomenology to intervention. *Current Psychiatry Reviews, 12,* 306-318.
6. Volkow, N.D., Swanson, J.M., Evins, A.E., DeLisi, L.E., **Meier, M.H.,** Gonzalez, R., Bloomfield, M.A., Curran, H.V., & Baler, R. (2016). Effects of cannabis use on human behavior, including cognition, motivation, and psychosis: A review. *JAMA Psychiatry, 73,* 292-297.
7. Cerdá, M., Moffitt, T.E., **Meier, M.H.,** Harrington, H.L., Houts, R., Ramrakha, S., Hogan, S., Poulton, R., & Caspi, A. (2016). Persistent cannabis dependence and alcohol dependence represent risks for midlife economic and social problems: A longitudinal cohort study. *Clinical Psychological Science*, *4,* 1028-1046.

**2015**

1. **Meier, M.H.,** \*Hill, M.L., \*Small, P.S., & Luthar, S.S. (2015). Associations of adolescent cannabis use with academic performance and mental health: A longitudinal study of upper middle class youth. *Drug and Alcohol Dependence, 156*, 207-212*.*
2. **Meier, M.H.,** Gillespie, N.A., Hansell, N.K., Hewitt, A.W., Hickie, I.B., Lu, Y., McGrath, J., MacGregor, S., Medland, S.E., Sun, C., Wong, T.Y., Wright, M., Zhu, G., Martin, N.G., & Mackey, D.A. (2015). Retinal microvessels reflect familial vulnerability to psychotic symptoms: A comparison of twins discordant for psychotic symptoms and controls. *Schizophrenia Research, 164,* 47-52.
3. Moffitt, T.E., Houts, R., Asherson, P., Belsky, D.W., Corcoran, D.L., Hammerle, M., Harrington, H.L., Hogan, S., **Meier, M.H.**, Polanczyk, G.V., Poulton, R., Ramrakha, S., Sugden, K., Williams, B., Rohde, L.A., & Caspi, A. (2015). Is adult ADHD a childhood-onset neurodevelopmental disorder? Evidence from a 4-decade longitudinal cohort study. *American Journal of Psychiatry, 172,* 967-977.

**2014**

1. **Meier, M.H.,** Gillespie, N.A., Hansell, N.K., Hewitt, A.W., Hickie, I.B., Lu, Y., MacGregor, S., Medland, S.E., Sun, C., Wong, T.Y., Wright, M., Zhu, G., Martin, N.G., & Mackey, D.A. (2014). Associations between depression and anxiety symptoms and retinal vessel caliber in adolescents and young adults. *Psychosomatic Medicine, 76,* 732-738*.*
2. **Meier, M.H.**, Moffitt, T.E., Caspi, A., & Poulton, R. (2014). Response to Bora. *American Journal of Psychiatry, 171,* 369-370.
3. **Meier, M.H.**, Caspi, A., Reichenberg, A., Keefe, R.S.E, Fisher, H.L., Harrington, H.L., Houts, R., Poulton, R., & Moffitt, T.E. (2014). Neuropsychological decline in schizophrenia from the premorbid to postonset period: Evidence from a population-representative longitudinal study. *American Journal of Psychiatry, 171,* 91-101*.*
4. Caspi, A., Houts, R., Belsky, D.W., Goldman-Mellor, S., Harrington, H.L., Israel, S., **Meier, M.H.**, Ramrakha, S., Shalev, I., Poulton, R., & Moffitt, T.E. (2014). The p factor: One general psychopathology factor in the structure of psychiatric disorders? *Clinical Psychological Science, 2,* 119-137.

**2013**

1. **Meier, M.H.**,**a** Shalev, I.,a Moffitt, T.E., Kapur, S., Keefe, R.S.E., Wong, T.Y., Belsky, D.W., Harrington, H.L., Hogan, S., Houts, R., Caspi, A., & Poulton, R. (2013). Microvascular abnormality in schizophrenia as shown by retinal imaging. *American Journal of Psychiatry, 170,* 1451-1459. aJoint first authors.
2. **Meier, M.H.**, Caspi, A., Houts, R., Slutske, W.S., Harrington, H.L., Jackson, K.M., Belsky, D.W., Poulton, R., & Moffitt, T.E. (2013). Prospective developmental subtypes of alcohol dependence from age 18 to 32 years: Implications for nosology, etiology, and intervention. *Development and Psychopathology, 25,* 785-800.
3. Belsky, D.W., Caspi, A., Goldman-Mellor, S., **Meier, M.H.,** Poulton, R., & Moffitt, T.E. (2013). Is obesity associated with a decline in intelligence quotient during the first half of the life course? *American Journal of Epidemiology, 178,* 1461-1468.
4. Belsky, D.W., Moffitt, T.E., Baker, T.B., Biddle, A.K., Evans, J.P., Harrington H.L., Houts, R., **Meier, M.H.**, Sugden, K., Williams, B., Poulton, R., & Caspi, A. (2013). Polygenic risk and the developmental progression to heavy, persistent smoking and nicotine dependence: Evidence from a 4-Decade Longitudinal Study. *JAMA Psychiatry, 70,* 534-542.
5. Shalev, I., Moffitt, T.E., Wong, T.Y., **Meier, M.H.**, Houts, R., Ding, J., Cheung, C.Y., Ikram, K.M., Caspi, A., & Poulton, R. (2013). Retinal vessel caliber and lifelong neuropsychological functioning: Retinal imaging as an investigative tool for cognitive epidemiology. *Psychological Science*, *24*, 1198-1207.
6. Fisher, H.L., Caspi, A., Poulton, R., **Meier, M.H.,** Houts, R., Harrington, H.L., Arseneault, L., & Moffitt, T. (2013). Specificity of childhood psychotic symptoms for predicting schizophrenia by 38 years of age: A birth cohort study. *Psychological Medicine, 43,* 2077-2086.
7. Moffitt, T.E., **Meier, M.H.**, Caspi, A., & Poulton, R. (2013). Reply to Rogeberg and Daly: No evidence that socioeconomic status or personality differences confound the association between cannabis use and IQ decline. *Proceedings of the National Academy of Sciences, 110,* E980-E982.

**2012**

1. **Meier, M.H.,** Caspi, A., Ambler, A., Harrington, H.L., Houts, R., Keefe, R.S.E., McDonald, K., Ward, A., Poulton, R., & Moffitt, T.E. (2012). Persistent cannabis users show neuropsychological decline from childhood to midlife. *Proceedings of the National Academy of Sciences*,109, 2657-2664.

**2011**

1. **Meier, M.H.**, Slutske, W.S., Heath, A.C., & Martin, N.G. (2011). Sex differences in the genetic and environmental influences on childhood conduct disorder and adult antisocial behavior. *Journal of Abnormal Psychology*, 120, 377-388.
2. Slutske, W.S., Zhu, G., **Meier, M.H.**, & Martin, N.G. (2011). Disordered gambling as defined by the DSM-IV and the South Oaks Gambling Screen: Evidence for a common etiologic structure. *Journal of Abnormal Psychology*, 120, 743-751.
3. Slutske, W.S., \*\*Bascom, E.N., **Meier, M.H.**, Medland, S.E., & Martin, N.G. (2011). Sensation seeking in females from opposite- versus same-sex twin pairs: Hormone transfer or sibling imitation? *Behavior Genetics,* 41, 533-542*.*

**2010**

1. Slutske, W.S., Zhu, G., **Meier, M.H.**, & Martin, N.G. (2010). Genetic and environmental influences on disordered gambling in men and women. *Archives of General Psychiatry, 67,* 624-630.

**2009**

1. **Meier, M.H.**, Slutske, W.S., Heath, A.C., & Martin, N.G. (2009). The role of harsh discipline in explaining sex differences in conduct disorder: A study of opposite-sex twin pairs. *Journal of Abnormal Child Psychology, 37,* 653-664.
2. Slutske, W.S., **Meier, M.H.**, Zhu, G., Statham, D.J., Blaszczynski, A., & Martin, N.G. (2009). The Australian twin study of gambling (OZ-GAM): Rationale, sample description, predictors of participation, and a first look at sources of individual differences in gambling involvement. *Twin Research and Human Genetics, 12,* 63-78.

**2008**

1. **Meier, M.H.**, Slutske, W.S., Arndt, S., & Cadoret, R.J. (2008). Impulsive and callous traits are more strongly associated with delinquent behavior in higher risk neighborhoods among boys and girls. *Journal of Abnormal Psychology, 117,* 377-385.

**2007**

1. **Meier, M.H.**, Slutske, W.S., Arndt, S., & Cadoret, R.J. (2007). Positive alcohol expectancies partially mediate the relation between delinquent behavior and alcohol use: Generalizability across age, sex, and race in a cohort of 85,000 Iowa schoolchildren. *Psychology of Addictive Behaviors, 21,* 25-34.

**Manuscripts Under Review**

Mun, C.J., Timmons, P., Perez, I.I., **Meier, M.H.,** Wegener, S.T., Campbell, C.M., & Aaron, R.V., Cannabis non-users versus those at risk for cannabis use disorder: psychosocial and pain characteristics, and two-year trajectories of pain outcomes.

\*\*Colby, A., \*Barashy, S., ± Miller, M.L., & **Meier, M.H.** Associations between cannabis-related hospital visits and psychotic disorder-related hospital visits in Arizona from 2016-2022.

**Manuscripts in Preparation**

**Meier, M.H.,** et al. Cannabis- and tobacco-related DNA methylation in a representative cohort.

**Meier, M.H.,** \*Jones, C.B., et al. The proximal antecedents and acute effects of cannabis use in medical cannabis users: An ecological momentary assessment study.

\*Barashy, S., ± Miller, M.L., \*\*Colby, A., Goldman-Mellor, S.& **Meier, M.H.** Cannabis-related disorders and subsequent risk of mental health problems: A statewide, longitudinal study of hospital discharge data.

\*\*Abraham, T. et al. Outcomes associated with implementation of an inpatient addiction medicine consult service: A systematic review and meta-analysis.

± Miller, M.L., **Meier., M.H.**, et al. Improved estimation of blood alcohol concentration from self-reported alcohol use: Implications for intensive longitudinal data.

Bourassa et al. PTSD, trauma, and DNA methylation: A multicohort investigation of candidate CpG sites.

**Sponsored Research and Other Funding**

**Funding Source: Arizona Department of Health Services**

Title: Cannabis Use and Safety Outreach

Role: Co-Investigator (PI: Leung)

Status: Funded

Amount of Award: $884, 715

Funding Period: 2023-2025

**Funding Source: American Psychological Association**

Title: Psi Chi – ASU Psych for All-Psi Chi-SciTech DEIB Program

Role: Co-Investigator [PI: McBeath]

Status: Funded

Amount of Award: $10,000

Funding Period: 2023-2024

**Funding Source: Institute of Mental Health Research:**

Title: Using Wastewater Epidemiology and Hospital Discharge Data to Examine COVID-related Changes in Drug Use and Problems

Role: Principal Investigator [Co-PIs: Halden and Driver]

Status: Funded

Amount of Award: $125,000

Funding Period: 2022-2024

**Funding Source: Arizona Biomedical Research Commission:**

Title: Using Electronic Health Record Data to Monitor Cannabis-related Mental Health Emergencies in Arizona

Role: Principal Investigator

Status: Funded

Amount of Award: $79,651

Funding Period: 2022-2025

**Funding Source: Health Resources and Services Administration:**

**D40HP45672**

Title: ASU Graduate Psychology Training Consortium: Improving Integrated Health and Opioid and Other Substance Use Disorder Treatment Access to Underserved Native American Communities Via Telehealth

Role: Co-Investigator [PI: M.A. Meier]

Status: Funded

Amount of Award: $1,332,706

Funding Period: 2022-2025

**Funding Source: ASU Department of Psychology** **DEIB Seed Grant:**

Title: Psi Chi – High School DEIB Promotion of Diversity Program

Role: Principal Investigator [Co-PIs: McBeath and Mae]

Status: Funded

Amount of Award: $10,000

Funding Period: 2022

**Funding Source: National Institute on Drug Abuse:**

**R01DA055853**

Title: Innovative Data Sources and Data Dissemination Strategies to Combat Opioid Misuse Role: Principal Investigator [Co-PIs: Halden and Berkel]

Status: Scored 6th percentile but unfunded

Amount of Award: $3,655,896

Funding Period: 2022-2027

**Funding Source: National Institute on Drug Abuse:**

**T32DA039772**

Title: Research Training in Drug Abuse Prevention: Closing the Research-Practice Gap

Role: Co-Investigator [PIs: Gonzalez and Berkel]

Status: Funded

Amount of Award: $2,229,493

Funding Period: 2021-2026

**Funding Source: Glen J. Swette Seed Grant and the Arizona State University Substance Abuse Translational Research Network:**

Title: Developing and Integrating Data Sources to Monitor the Effects of Cannabis Legalization in Arizona

Role: Principal Investigator

Status: Funded

Amount of Award: $13,500

Funding Period: 2021-2022

**Funding Source: National Institute on Aging:**

**R01AG069939**

Title: Comprehensive Portrait of Long-term Cannabis Users: Are They Ready for Old Age?

Role: Co-Investigator [PIs: Moffitt, Caspi, Hariri]

Status: Funded

Amount of Award: $40,000 to Meier

Funding Period: 2020-2024

**Funding Source: National Institute on Drug Abuse:**

**F31DA049432**

Title: Proximal Antecedents and Subjective Effects of Medical Cannabis Use

Role: Mentor [Predoctoral Trainee: Jones]

Status: Funded

Amount of Award: $127,531

Funding Period: 2020-2022

**Funding Source: National Institute on Alcohol Abuse and Alcoholism:**

**F31AA026768**

Title: Identifying Children and Teens at Risk for Early-Onset Alcohol Use

Role: Co-Mentor [Predoctoral Trainee: Pelham]

Status: Funded

Amount of Award: $106,825

Funding Period: 2018-2020

**Funding Source: Arizona State University Department of Psychology Cialdini Leap Forward Investment:**

Title: Effects of Cannabis Use on Cognition, Affect, and Pain in Older and Younger Adults

Role: Principal Investigator

Status: Funded

Amount of Award: $10,000

Funding Period: 2018

**Funding Source: National Science Foundation:**

Title: Graduate Research Fellowship Program

Role: Mentor [Predoctoral Trainee: Hill]

Status: Funded

Amount of Award: $138,000

Funding Period: 2016-2019

**Funding Source: Arizona State University Institute for Social Science Research:**

Title: Cannabis Use Among Older Adults

Role: Principal Investigator

Status: Funded

Amount of Award: $4,000

Funding Period: 2015

**Funding Source: National Institute on Drug Abuse:**

**T32DA039772**

Title: Research Training in Drug Abuse/HIV Prevention: Closing the Research-Practice Gap

Role: Co-Investigator [PI: Chassin]

Status: Funded

Amount of Award: $1,948,920

Funding Period: 2015-2021

**Funding Source:** Duke Transdisciplinary Prevention Research Center Seed Grant:

Title: Do Smoking-associated Genetic Variants Underlie a Spectrum of Externalizing Behavior?

Role: Principal Investigator [Co-PI: Belsky]

Status: Funded

Amount of Award: $3,733

Funding Period: 2012

**Funding Source:** National Institute of Mental Health:

**F31MH079683**

Title: Sex Differences in Antisocial Behavior

Role: Predoctoral trainee

Status: Funded

Amount of Award: $60,139

Funding Period: 2006-2008

**Honors and Awards**

2023 Professor of Impact of Award. The College of Liberal Arts and Sciences, Arizona State University

2019 Zebulon Pearce Distinguished Teaching Award finalist. The College of Liberal Arts and Sciences, Arizona State University

2016 Recognized as top 5% of >1,500 journal reviewers for *Drug and Alcohol Dependence*

2015 APS Rising Star, Awarded by the Association for Psychological Science

2012 Enoch Gordis Award, Research Society on Alcoholism Annual Meeting, Awarded by the Research Society on Alcoholism

2012 Early Career Investigator Award, Awarded by the Research Society on Alcoholism

2010 Student Travel Award, American Psychopathological Association Annual Meeting, Awarded by the American Psychopathological Association

2007 Mark H. Thelen Outstanding Clinical Graduate Student Award, Awarded by the University of Missouri Department of Psychological Sciences

2005 Summer Grant Writing Fellowship, Awarded by the University of Missouri Department of Psychological Sciences

2002 Academic Fellowship, Awarded by the University of Missouri Department of Psychological Sciences

2001 Phi Beta Kappa, University of Virginia

**Invited Presentations**

**Meier, M.H.** Preparedness for healthy aging and polysubstance use in long-term cannabis users: A population-representative longitudinal study. Women’s Brain Health Rounds. University of Toronto, Toronto, Canada. Virtual meeting. March 2024**.**

**Meier, M.H.** Long-term cannabis use and cognitive reserves and hippocampal volume in midlife. Psychiatry Grand Rounds. JPS Health Network, Fort Worth, Texas. Virtual meeting. February, 2023.

**Meier, M.H.** Long-term cannabis use and cognitive reserves and hippocampal volume in midlife. International Academy on the Science and Impact of Cannabis. Virtual meeting. August, 2022.

**Meier, M.H.** Cognitive deficits in long-term cannabis users.Copenhagen University Hospital, Mental Health Centre Copenhagen. Virtual meeting. November, 2021.

**Meier, M.H.** Long-term cannabis use and cognitive functioning. Nordic Summit on Cannabis. World Federation Against Drugs. Copenhagen, Denmark. September, 2021.

**Meier, M.H.** Public health impacts of cannabis legalization: Translating Research into Practice Series. Arizona State University College of Health Solutions. Virtual meeting. January, 2021.

**Meier, M.H.,** & Peterson, D.Cannabis in neurodegenerative diseases. Michael J. Fox Foundation Cannabis Workshop. Virtual meeting. June, 2020.

**Meier, M.H.** Invited testimony. United States Senate Caucus on International Narcotics Control Hearing – “Marijuana and America’s Health: Questions and Issues for Policy Makers.” Washington, D.C. October, 2019. <https://m.youtube.com/watch?v=bYEgAyK2W9o&fbclid=IwAR2clo-1X6SfSbfP1SCjbY0kmQlbm2n_HJBD8iVwNh79u0dDJOFD1IEai7k>

**Meier, M.H.** Associations between persistent cannabis use and cognitive and psychosocial functioning. Duke University Center on Addiction and Behavior Change. Durham, NC. April, 2019.

**Meier, M.H**. Cannabis use and cognitive impairment. NIH Summit on Marijuana and Cannabinoids. Bethesda, MD. March, 2016.

**Meier, M.H.** Retinal microvessels reveal familial vulnerability to psychosis symptoms. Phoenix VA Health Care System. Phoenix, AZ. April, 2015.

**Meier, M.H.** Persistent cannabis users show neuropsychological decline from childhood to midlife. Fourth World Forum Against Drugs. Stockholm, Sweden. May, 2014.

**Meier, M.H.** Adolescent-onset persistent cannabis users show IQ decline from childhood to midlife. California Society of Addiction Medicine. San Diego, CA. October, 2013.

**Meier, M.H.** Microvascular abnormality in schizophrenia as shown by retinal imaging. QIMR Berghofer Medical Research Institute. Brisbane, Australia. August, 2013.

**Teaching**

**Arizona State University, Department of Psychology**

PSY 366: Psychological Disorders [formerly Abnormal Psychology]: 16 sections, ~100 undergraduate students per section

PSY 394: Substance Abuse Overview: 1 section, ~50 undergraduate students

PSY 591: Psychology of Addictions: 4 sections, 6-10 graduate students per section

PSY 578: Developmental Psychopathology: 5 sections, 6-14 graduate students per section

PSY 601: Addiction and Substance Abuse Assessment and Diagnosis: online course development

**Mentoring**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Doctoral Student Mentoring.** This table is organized by my role (chaired roles come first) and then by milestone completion year. | | | | | | |
| Student | **Role on committee** | | **Milestone**  **Completion Year** | | **Milestonea** | |
| Sivan Barashy | Chair | | 2024 | | Master’s Thesis Proposal | |
| Connor Jones | Chair | | 2022 | | Ph.D., VA Portland Healthcare System, Staff Psychologist | |
|  | Chair | | 2022 | | Dissertation | |
|  | Chair | | 2018 | | Comprehensive Exam | |
|  | Chair | | 2017 | | Master’s Thesis | |
| Sarah Okey | Chair | | 2020 | | Comprehensive Exam | |
|  | Chair | | 2019 | | Master’s Thesis | |
| Melanie Hill | Chair | | 2020 | | Ph.D., Postdoctoral Fellow, VA San Diego Health Care System | |
|  | Chair | | 2019 | | Dissertation | |
|  | Chair | | 2017 | | Comprehensive Exam | |
|  | Chair | | 2016 | | Master’s Thesis | |
| Abigail McDonald | Member | | 2024 | | Master’s Thesis | |
| Xavier Celaya | Member | | 2023 | | Master’s Thesis | |
| Jack Waddell | Member | | 2023 | | Dissertation | |
| Austin Blake | Member | | 2023 | | Dissertation Proposal | |
| Joshua Steele | Member | | 2022 | | Dissertation | |
| Austin Blake | Member | | 2021 | | Comprehensive Exam | |
| Jack Waddell | Member | | 2021 | | Comprehensive Exam | |
| Rana Uhlman | Member | | 2021 | | Master’s Thesis | |
| Amanda Bruening | Member | | 2020 | | Dissertation | |
| Ariel Sternberg | Member | | 2020 | | Dissertation | |
| Austin Blake | Member | | 2019 | | Master’s Thesis | |
| Amanda Bruening | Member | | 2017 | | Comprehensive Exam | |
| Kyle Menary | Member | | 2017 | | Dissertation | |
|  | Member | | 2015 | | Comprehensive Exam | |
|  | Member | | 2014 | | Master’s Thesis | |
| Holly O’Rourke | Member | | 2016 | | Dissertation | |
|  | Member | | 2015 | | Comprehensive Exam | |
| Mariam Hanna | Member | | 2016 | | Comprehensive Exam | |
| Phillip Small | Member | | 2015 | | Master’s Thesis | |
| Meghan Lally | Member | | 2015 | | Dissertation Proposal | |
| a. Doctoral student master’s theses and dissertations in the clinical area of the Psychology Department are completed in three stages: proposal, data meeting, and defense. There is a formal committee meeting and pass/fail designation at each stage. For simplicity, milestones in this table are labeled as “proposal” if the final defense has not yet occurred. Comprehensive exams involve either a grant proposal or a literature review, with a single defense meeting. Clinical area doctoral students are required to complete a 1-year clinical internship before they can be awarded their PhD. | | | | | | |
| **Undergraduate Student Mentoring.** This table is organized by milestone, my role (chaired roles come first), and by year. | | | | | | |
| Student | | **Role on committee** | | **Milestone**  **Completion Year** | | **Milestonea** |
| Alana Colby | | Chair | | 2024 | | Undergraduate Honor’s Thesis |
| Tina Abraham | | Chair | | 2024 | | Undergraduate Honor’s Thesis |
| Grace Harris | | Chair | | 2022 | | Undergraduate Honor’s Thesis |
| Olivia Jenks | | Chair | | 2022 | | Undergraduate Honor’s Thesis |
| Ryleigh Collins | | Chair | | 2021 | | Undergraduate Honor’s Thesis |
| Alexandria Dake | | Chair | | 2019 | | Undergraduate Honor’s Thesis |
| Makita White | | Chair | | 2016 | | Undergraduate Honor’s Thesis |
| Lucia Carbajal | | Chair | | 2016 | | Undergraduate Honor’s Thesis |
| Katherine Gandee | | Chair | | 2016 | | Undergraduate Honor’s Thesis |
| Emily Lynch | | Chair | | 2015 | | Undergraduate Honor’s Thesis |
| Kirin Uppal | | Member | | 2024 | | Undergraduate Honor’s Thesis |
| Alexa Johnson | | Member | | 2024 | | Undergraduate Honor’s Thesis |
| Noah In | | Member | | 2023 | | Undergraduate Honor’s Thesis |
| Haley Hummel | | Member | | 2022 | | Undergraduate Honor’s Thesis |
| Jaclyn Stack | | Member | | 2017 | | Undergraduate Honor’s Thesis |
| Kira Gomez | | Member | | 2016 | | Undergraduate Honor’s Thesis |
| Elizabeth Perry | | Member | | 2015 | | Undergraduate Honor’s Thesis |
| Emma Lauer | | Member | | 2014 | | Undergraduate Honor’s Thesis |
| Alexandria Melick | | n/a | | 2019 | | Barrett Honor’s Contract |
| Callista Morlock | | n/a | | 2019 | | Barrett Honor’s Contract |
| Kali Draper | | n/a | | 2018 | | Barrett Honor’s Contract |
| Angelica Town | | n/a | | 2018 | | Barrett Honor’s Contract |
| Jenna Vanderhave | | n/a | | 2018 | | Barrett Honor’s Contract |
| Karla Valenzuela | | n/a | | 2018 | | Barrett Honor’s Contract |
| Mikayla Carlson | | n/a | | 2018 | | Barrett Honor’s Contract |
| Libby Allnatt | | n/a | | 2017 | | Barrett Honor’s Contract |
| Aegia Mari Baldevia | | n/a | | 2017 | | Barrett Honor’s Contract |
| Victoria Temporini | | n/a | | 2017 | | Barrett Honor’s Contract |
| Stephanie Miller | | n/a | | 2017 | | Barrett Honor’s Contract |
| Maddie Barton | | n/a | | 2017 | | Barrett Honor’s Contract |
| Lennie To | | n/a | | 2015 | | Barrett Honor’s Contract |
| Steven Granger | | n/a | | 2014 | | Barrett Honor’s Contract |
| Katherine Zwickl | | n/a | | 2013 | | Barrett Honor’s Contract |
| Yosemi Mendoza | | n/a | | 2013-15 | | ASU Upward Bound Program |
| a. Psychology honor’s theses are empirical papers. Students develop a research question, collect the data, analyze the data using inferential statistics, and write up the results in a paper that includes an introduction, methods, results, and discussion section. Barrett Honor’s contracts involve writing a literature review or preparing an oral presentation on a controversial topic in psychological science. | | | | | | |

**Student Awards**

**2020** Connor Jones (Doctor Student): Recipient of a National Institute on Drug Abuse F31 Fellowship

**2020** Sarah Okey (Doctoral Student): Recipient of the Manne Award, Arizona State University, Department of Psychology

**2020** Melanie Hill (Doctoral Student): First place winner of the Outstanding Writing in Psychology Award, Arizona State University, Department of Psychology

**2017** Connor Jones (Doctoral Student): Recipient of a National Institute on Drug Abuse T32 Pre-Doctoral Training Fellowship (T32 DA039772)

**2016** Melanie Hill (Doctoral Student): Recipient of the National Science Foundation Graduate Research Fellowship

**2015** Emily Lynch (Undergraduate Student): $1,700 Zita M. Johnson Child Study Scholarship, Arizona State University, Department of Psychology

Aundrea DeGravina (Undergraduate Student): $1,000 Psychology Scholar Award, Arizona State University, Department of Psychology

**Conference Presentations**

Khalifeh, L., Caspi, A., Harrington, H.L., **Meier, M.H.,** Poulton, R., Ramrakha, S., Moffitt, T.E., & Richmond-Rakerd, L. (March 2023). *Midlife-Onset alcohol dependence: What sets it apart?* Poster presented at the annual meeting of the American Psychopathological Association Meeting, New York, NY.

\*\*Hummel, H., \*Jones, C.J., & **Meier, M.H**. (April, 2023). *Antecedents and subjective effects of cannabis use among medical cannabis users: An ecological momentary assessment study.* Poster presented at the annual meeting of the Western Psychological Association, Riverside, CA.

\*\*Roman, B., \*\*Barton, E., & **Meier, M.H.** (April, 2023). *Changes in state medical cannabis program registration and in daily medical cannabis sales in Arizona from 2018-2021.* Poster presented at the annual meeting of the Western Psychological Association, Riverside, CA.

\*Waddell, J.T., Corbin, W.R., **Meier, M.H.,** & Metrik, J. (July, 2022). *The development and validation of two novel measures to assess cannabis expectancies and simultaneous cannabis and alcohol expectancies.* Paper presentation at the annual meeting of Research Society on Marijuana, Boston, MA.

**Meier, M.H.** (March, 2021). *Cannabis concentrate use in adolescents.* Paper presentation at a symposium I co-chaired at the annual Collaborative Perspectives on Addiction, Virtual Presentation.

**Meier, M.H.,** & Leventhal, A.M. (March 2021). Symposium co-chair: Adolescent and Young-Adult Use of Novel Cannabis Preparations and Administration Methods. Collaborative Perspectives on Addiction, Virtual Meeting.

\*Pelham, W.E., Corbin, W.R., Chassin, L., **Meier, M.H.,** & Grimm, K.J. (June, 2020). *How early and how well can we predict early onset of alcohol or drug use?* Poster presented at the 43rd annual Research Society on Alcoholism Meeting, Virtual Meeting.

\*Waddell, J.T., Corbin, W.R., **Meier, M.H.**, & Morean, M.E. (April, 2020). *The anticipated cannabis effects scale (ACES): Initial development and validation.* Poster presented at the Collaborative Perspectives on Addiction 2020 meeting, San Diego, CA.

(Conference canceled.)

\*Okey, S., & **Meier, M.H.** (June, 2019). *Are acute effects more extreme with higher-potency cannabis? A within-person comparison of marijuana and butane hash oil.* Paper presentation at a symposium at the annual meeting of the College on Problems of Drug Dependence, San Antonio, TX.

\*Jones, C.B., **Meier, M.H.,** & Chassin, L. (May, 2019). *Adolescent executive cognitive functioning and impulsivity as predictors of young-adult risky drinking and alcohol-related problems.* Poster presented at the annual Association for Psychological Science Convention, Washington, DC.

\*Hill, M.L, \*Jones, C.B., & **Meier, M.H.** (March, 2019).*Rumination prospectively predicts increased cannabis problems in young adults.* Poster presented at the 2019 International Convention of Psychological Science, Paris, France.

**Meier, M.H.,** & Chassin, L. (August, 2018). *A developmental psychopathology perspective on addiction and psychopathology.* Talk given at a symposium at the annual meeting of the American Psychological Association, San Francisco, CA.

\*Hill, M.L. & **Meier, M.H.** (May, 2018). *Cannabis use is associated with subclinical markers of vascular risk in young adults.* Poster presented at the annual Association for Psychological Science Convention, San Francisco, CA.

**Meier, M.H.** (June, 2018). *Neuropsychological impairment in older adult cannabis users.* Poster presented at the annual meeting of the College on Problems of Drug Dependence, San Diego, CA.

\*Jones, C.B., & **Meier, M.H**. (June, 2018). *Potential risks of cannabis vaping and edible use.* Poster presented at the annual meeting of the College on Problems of Drug Dependence, San Diego, CA.

\*Sternberg, A., \*Hill, M.L., Suk, H.W., **Meier, M.H**., & Chassin, L. (June, 2018). *Exploring cannabis-specific parenting as a mechanism of the intergenerational transmission of cannabis use and cannabis use disorder on offspring adolescent cannabis use.* Poster presented at the annual meeting of the College on Problems of Drug Dependence, San Diego, CA.

**Meier, M.H.,** Byrne, E., Wong, T., & Sim, X. (April, 2018). *Phenotypic and genetic associations between schizophrenia and retinal vessel diameter.* Paper presentation at a symposium at the meeting of the Schizophrenia International Research Society, Florence, Italy.

**Meier, M.H.,** & Pardini, D.A. (May, 2017). *Accurately identifying adolescents who will exhibit persistent frequent substance use in adulthood.* Paper presentation at a symposium at the annual meeting of the Society for Prevention Research, Washington, D.C.

\*Hill, M.L., \*Sternberg, A., Suk H.W., **Meier, M.H.**, & Chassin, L. (May, 2017). *Parenting and the intergenerational transmission of cannabis use: A multilevel mediation model approach.* Poster presented at the annual Association for Psychological Science Convention, Boston, MA.

**Meier, M.H.** *Neuropsychological impairment among adolescent-onset cannabis users* (December, 2016)*.* Paper presentation at a symposium at the annual meeting of the American College of Neuropsychopharmacology, Hollywood, FL.

\*Small, P. J., **Meier, M. H.**, Infurna, F. J., & Luthar, S. S. (May, 2016). *Affluent youth in emerging adulthood: Elevated substance use relative to norms*. Poster presented at the annual Association for Psychological Science Convention, Chicago, IL.

**Meier., M.H.** (May, 2016). *Associations between cannabis use and laboratory-based physical health problems in early midlife: A longitudinal comparison of persistent cannabis and tobacco users.* Paper presentation at a symposium at the Life History Society Annual Meeting, Amsterdam, The Netherlands.

**Meier, M.H.** (December, 2014). *Persistent cannabis users show neuropsychological decline from childhood to midlife.* Paper presentation at a symposium at the annual meeting of the American College of Neuropsychopharmacology, Phoenix, Arizona.

**Meier, M.H.** (October, 2014). *Persistent cannabis users show neuropsychological decline from childhood to midlife.* Paper presentation at a symposium at the annual meeting of the American Academy of Child and Adolescent Psychiatry, San Diego, CA.

**Meier, M.H.** (March, 2014). *How accurately can childhood and adolescent risk factors predict persistent substance dependence in adulthood?* Poster presented at the annual meeting of the American Psychopathological Association, New York, New York.

**Meier, M.H.** (April, 2013). *Adolescent-onset cannabis users show IQ decline from childhood to midlife.* Paper presentation at a symposium at the meeting of the International Congress on Schizophrenia Research, Orlando, FL.

**Meier, M.H.** (June, 2012). *Prospective developmental subtypes of alcohol dependence from age 18 to 32 years: Implications for nosology, etiology, and intervention.* Paper and poster presentation at the annual meeting of the Research Society on Alcoholism, San Francisco, CA. *Enoch Gordis Award winner.*

**Meier, M.H.,** Slutske, W.S., Heath, A.C., & Martin, N.G. (March, 2010). *Sex differences in the genetic and environmental influences on childhood conduct disorder and adult antisocial behavior.* Poster presented at the annual meeting of the American Psychopathological Association, New York, New York.

**Meier, M.H.,** Slutske, W.S., & Cadoret, R.J. (June, 2005). *Positive alcohol expectancies partially mediate the relation between delinquent behavior and alcohol use: Generalizability across age, sex, and race in a cohort of 85,000 Iowa schoolchildren.* Poster presented at the annual meeting of the Research Society on Alcoholism, Santa Barbara, CA.

**Meier, M.H.,** Slutske, W.S., Bucholz, K.K., Madden, P.A.F., & Heath, A.C. (June, 2004). *Disentangling genetic and environmental contributions to the association between oppositional defiant disorder symptoms and alcohol problems.* Poster presented at the annual meeting of the Research Society on Alcoholism, Vancouver, B.C.

**Meier, M.H.,** Slutske, W.S., Bucholz, K.K., Madden, P.A.F., & Heath, A.C. (June, 2003).

*The persistence of oppositional defiant disorder and the risk for alcohol problems in a community sample of adolescent female twins.* Poster presented at the annual meeting of the Research Society on Alcoholism, Fort Lauderdale, FL.

**Service**

**Department**

2024 Promotion and Tenure Committee Member – Promotion and Tenure of Dr. Jinni Su

2024-present Area Head and Co-director of Clinical Training for the clinical area, ASU Department of Psychology

2024 Organized Department of Psychology Team Walk with the American Foundation for Suicide Prevention

2023 Drafted comprehensive exam contract for clinical area

2023 Organized donation to Boston Rape Crisis Center in Honor of an ASU graduate student

2023-present T32 Steering Committee

2022-present ASU Psych4All PsiChi SciTech

2022-2024 Faculty Evaluation Committee

2022-2023 Chair Search Committee

2022 Promotion and Tenure Committee Member – Tenure and Promotion of Dr. Thao Ha

2022 Biodesign/Department of Psychology Center for Addictions Directorship Search Committee

2022 Tested QuestionPro data collection software and provided and organized faculty feedback on strengths and limitations

2021-2022 Clinical Area Speaker Series Lead

2020 Chair of Doctoral Admissions Committee for Clinical Psychology

2020-present Addictions Certificate Admissions Committee

2019-2023 DoctoralAdmissions Committee for Clinical Psychology

2019 Child Clinical Psychology Search Committee

2019 Teaching of Psychology Practicum Supervisor

2018-2019 Clinical Psychology Center Alcohol Diversion Program Development

2018-2019 Addictions Certificate Program Development

2017-present Psi Chi Faculty Advisor (2017-present) and Director (2019-present)

2018-2019 Behavior Genetics Search Committee

2016-2018 Psychology Advisory Committee

2016-2019 Psychology Lab Tours

2016-2022 Poster Reviewer for the Arizona Psychology Undergraduate Research Conference

2014-present Clinical Area Internship Mock Interviews

2014-2016 DoctoralAdmissions Committee for Clinical Psychology

**University**

2022 Leadership Development Design

2020-2021 Substance Abuse Translational Research Network (SATRN) -- Youth Substance Use Lead

2020 Biodesign Faculty Search Committee

2019 Envisioning the Future of High Impact Research on Substance Use, Abuse, and Addiction Ideas Lab

2019 College of Arts and Sciences Teaching at ASU Workshop -- Panelist

2017 Faculty Emissary to STEM Camp

2017 Faculty Cross Talk Seminar: Health in Social Sciences Speaker

2017 Institute for Social Science -- Research Poster Presenter

2015-2016 Night of the Open Door

2014 ASSIST Sun Devil Workshop (2014)

2014 American English and Culture Program

**Profession**

2023 External Tenure Evaluation (n=1)

2023 Grant Reviewer, National Institutes of Health, Special Emphasis Panel: Accelerating the Pace of Drug Abuse Research Using Existing Data(June)

2023 Grant Reviewer, National Institutes of Health, Addiction Risks and Mechanisms study section (February)

2022-2023 National Academies of Sciences, Engineering, and Medicine, Committee on Study and Recommendations on the HIMS, FADAP and other Drug and Alcohol Programs within the Department of Transportation

2022 External Tenure Evaluations (n=2)

2022 IASIC (International Academy on the Science and Impact on Cannabis) Expert Science Advisory Council

2022 Grant Reviewer, National Institutes of Health, Addiction Risks and Mechanisms study section (June)

2020 Grant Reviewer, Institute of Mental Health Research (April)

2020 Grant Reviewer, National Institutes of Health, Infectious Disease, Reproductive Health, and Asthma/Pulmonary Conditions study section (February)

2019 Grant Reviewer, Center for Medical Cannabis Research, University of California San Diego (June,)

2019 Early Career Grant Reviewer at the Center for Scientific Review, National Institutes of Health, Drug Abuse Research Panel (June)

2018 Grant Reviewer, Canadian Institutes of Health Research (October)

**Editorial Positions**

Consulting Editor

*Psychology of Addictive Behaviors*, 2020-present

*Journal of Psychopathology and Clinical Science*, 2017-present

Ad-Hoc Journal Reviewer

*Addiction, Addictive Behaviors, Addictive Behaviors Reports, Alcoholism: Clinical and Experimental Research, American Journal of Preventive Medicine, American Journal of Psychiatry, American Journal on Addictions, Bipolar Disorders, Clinical Psychological Science, Criminal Justice and Behavior, Drug and Alcohol Dependence, JAMA, JAMA Psychiatry, Journal of Psychopathology and Clinical Science, Journal of Adolescent Health, Journal of Personality, Journal of Research in Personality, Journal of Studies on Alcohol and Drugs, Lancet Psychiatry, Molecular Psychiatry, Preventive Medicine, Psychology of Addictive Behaviors, Psychological Science, Schizophrenia Bulletin, Schizophrenia Research, Social Psychiatry and Psychiatric Epidemiology*

**Community Service**

**Meier, M.H.** (May, 2023). *Trends in cannabis-related hospital visits in Arizona.* Meeting of the Arizona Substance Abuse Partnership.

**Meier, M.H.** (September, 2022). *Long-term cannabis use and cognitive reserves and hippocampal volume in midlife.* Arizona Drug Summit, Tempe, AZ.

**Meier, M.H.** (December, 2021).*Monitoring the effects of cannabis legalization in Arizona to inform prevention and intervention.* Substance use and Addiction Translational Research Network of Arizona, Virtual Presentation.

**Meier, M.H.** (November, 2021). *Public health impacts of cannabis legalization in Arizona.* Substance Abuse Coalition Leaders of Arizona, Virtual Presentation.

**Meier, M.H.** (April, 2021). *Adverse effects of acute cannabis intoxication and long-term cannabis use.* Media Briefing: Cannabis: Health Effects and Regulatory Issues. SciLine AAAS, Virtual Presentation. <https://www.sciline.org/health-medicine/cannabis/>

**Meier, M.H.** (February, 2021).*Changes in medical cannabis sales in Arizona during Covid-19.* Substance Use and Addiction Translational Research Network of Arizona, Virtual Presentation.

**Meier, M.H.** (September, 2020).*Adolescent cannabis use: Risk for long-term negative outcomes.* Arizona Drug Summit, Virtual Presentation.

**Meier, M.H.** (February, 2018). *Preventing adolescent substance use: A public health priority.* Arizona Governor’s Office of Youth and Family – Youth Prevention Program, Phoenix, AZ.

**Meier, M.H.** (July, 2017). *Hallucinations: Epidemiology and implications for nosology, etiology, and treatment.* Spirit of the Senses, Phoenix, AZ.

**Meier, M.H.** (February, 2016). *Persistent cannabis use and associations with cognitive functioning, social and economic functioning, and physical health in early midlife.* Mayo Clinic, Scottsdale, AZ.

**Meier, M.H.** (September, 2015).*Persistent cannabis users show neuropsychological decline from childhood to midlife.* Arizona Drug Summit, Phoenix, AZ.

**Meier, M.H.** (March, 2013).*Teen cannabis use and risks for cognitive deficits.* Durham Academy High School, Durham, NC.

**Meier, M.H.** (December, 2012).*Persistent cannabis users show neuropsychological decline from childhood to midlife.* Alice Aycock Poe Center for Health Education, Raleigh, NC.

Brain Awareness Week, Duke Institute for Brain Sciences, Durham, NC, 2012

**Selected Media Coverage and Editorials**

The Editors. (2023). 2022 Articles of Import and Impact. *American Journal of Psychiatry*, *180* (1).

Hasin, D. (2022). Long-term cannabis use and preparedness for ageing. *The Lancet Healthy Longevity*, *3*(10), e645-e646.

“Long-Term Regular Cannabis Users Showed Cognitive Deficits at Midlife in 45-Year Study” (2022). Brain and Behavior Research Foundation. <https://www.bbrfoundation.org/content/long-term-regular-cannabis-users-showed-cognitive-deficits-midlife-45-year-study>

Conrod, P. J. (2022). Cannabis and brain health: What is next for developmental cohort studies? *American Journal of Psychiatry*, *179*(5), 317-318.

“Long-term Cannabis Use Linked to Dementia Risk Factors” (2022). Medscape. https://www.medscape.com/viewarticle/972160

“Another Great Marijuana Lie: “Dabs” Are Bad and Most Cannabis Consumers Prefer Less THC, Study Finds” (2020). Forbes. https://www.forbes.com/sites/chrisroberts/2020/09/03/another-great-marijuana-lie-dabs-are-bad-and-most-cannabis-consumers-prefer-less-thc-study-finds/#465ec6edce70

“Teens Who Use Concentrated Marijuana More Likely to Use Other Drugs” (2019). NBC News. https://www.nbcnews.com/health/kids-health/teens-who-use-concentrated-marijuana-more-likely-use-other-drugs-n1045961

“Many teens Are Using Ultra-Potent Marijuana Concentrates” (2019). Livescience. <https://www.livescience.com/marijuana-concentrates-teen-use.html>

“Study Finds Youth Cannabis Use Not Linked to Adult Brain Structure” (2019). *Leafly.* <https://www.leafly.com/news/health/study-finds-youth-cannabis-use-not-linked-to-adult-brain-structure>

“Is More Potent Marijuana Driving a Surge in Cannabis Use Disorder?” (2019). *Healthline.*

<https://www.healthline.com/health-news/more-potent-marijuana-driving-cannabis-use-disorder>

“Teen Marijuana Use Not Independently Linked with IQ Decline.” (2017). *New York Daily News*. <http://www.nydailynews.com/life-style/teen-marijuana-not-independently-linked-iq-decline-article-1.3397345>

Heckers, S. (2017). JAMA Psychiatry 2016 Year in Review. *JAMA Psychiatry*, 74, 439-440. (This article lists Meier et al., 2016 as one of the top three most talked about papers of 2016 in *JAMA Psychiatr*y.)

The Late Show with Stephen Colbert covers Meier et al., 2016. <https://www.youtube.com/watch?v=ngoJnWmUXns>

Marijuana and Cannabinoids: A Neuroscience Research Summit. (2016). <https://videocast.nih.gov/summary.asp?Live=18464&bhcp=1> (I speak at 2 hours and 36 minutes.)

“Chronic Marijuana Use is About as Bad for Your Health as Not Flossing, Researchers Find.” (2016). *Washington Post*. https://www.washingtonpost.com/news/wonk/wp/2016/06/02/chronic-marijuana-use-is-about-as-bad-for-your-health-as-not-flossing-researchers-find/?utm\_term=.f248dbdf8083

“Treating Depression Early May Protect the Heart.” (2015). *Scientific American*. <http://www.scientificamerican.com/article/treating-depression-early-may-protect-the-heart/>

Comments by Dr. Irving Gottesman on Meier et al. (2015): “The study of normal persons who are outliers on dimensions of psychopathological interest can often have unexpectedly important outcomes. The leverage added from the use of twins, plus a new candidate endophenotype observed in retinal microvessels, makes this paper a “winner” in my book. Cardiovascular disease is also examined as a byproduct of studying microvasculature.” These comments appeared on the Schizophrenia Research Forum in February/March 2015.

“The Addiction Paradox.” (2014). *Science News*. https://www.sciencenews.org/article/addiction-paradox

Dickson, D. (2014). Zeroing in on early cognitive development in schizophrenia. *American Journal of Psychiatry,* 171, 9-12.

Malaspina, D. (2013). Looking schizophrenia in the eye. *American Journal of Psychiatry,* 170(12), 1382-1384.

“Retinal Blood Vessels May Be Abnormal in Schizophrenia, Study Finds.” (2013). *Psychiatric News*. <http://alert.psychnews.org/search?updated-min=2013-01-01T00:00:00-05:00&updated-max=2014-01-01T00:00:00-05:00&max-results=50>

NIDA Notes: Researchers Speak – Dr. Madeline Meier on Marijuana and IQ. (2013). National Institute on Drug Abuse (NIDA/NIH). <https://www.drugabuse.gov/videos/nida-notes-researchers-speak-dr-madeline-meier-marijuana-iq>

“Regular Long-Term Marijuana Use Lowers IQ.” Billboard on Interstate-10 in Phoenix, Arizona that features my work.

“Teen Pot Use Linked to Later Declines in IQ.” (2012). *Associated Press*. http://news.yahoo.com/teen-pot-linked-later-declines-iq-192328332.html

“Drop in IQ Linked to Heavy Teenage Cannabis Use.” (2012). *Nature*. <http://www.nature.com/news/drop-in-iq-linked-to-heavy-teenage-cannabis-use-1.11278>