

# Francesca M. Filbey, PhD

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## Professor and Bert Moore Endowed Chair

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## Associate Provost

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## Educational History

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- 2005            **Postdoctoral Fellowship (Neuroimaging)**  
National Institute of Mental Health, NIH  
Bethesda, MD, USA  
Supervisor: Robert M. Cohen, Ph.D., M.D.
- 2002            **Doctor of Philosophy (Experimental Neuropsychology)**  
Institute of Psychiatry, King's College, University of London  
London, UK  
Supervisors: Sir Professor Robin Murray, M.D. and Professor Robin Morris, Ph.D.
- 1997            **Master of Science (Applied Cognition and Neuroscience)**  
University of Texas at Dallas  
Dallas, Texas, USA
- 1995            **Bachelor of Arts (Psychology)**  
University of Texas at Arlington  
Arlington, Texas, USA

## Professional Experience

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- 2018 - Present    **Professor**, Cognition and Neuroscience  
School of Behavioral and Brain Sciences  
University of Texas at Dallas
- 2018 - Present    **Associate Provost**  
University of Texas at Dallas
- 2017 – 2018       **Program Head**, Cognition and Neuroscience  
School of Behavioral and Brain Sciences  
University of Texas at Dallas
- 2013 - 2018       **Associate Professor**, Cognition and Neuroscience  
School of Behavioral and Brain Sciences  
University of Texas at Dallas
- 2010 - 2013       **Assistant Professor**, Cognition and Neuroscience  
School of Behavioral and Brain Sciences  
University of Texas at Dallas
- 2010 - Present    **Adjunct Associate Professor**  
Department of Psychiatry  
University of Texas Southwestern Medical Center
- 2010 - Present    **Adjunct Assistant Professor of Translational Neuroscience**

2002 – Present	The Mind Research Network <b>Honorary Researcher</b> Institute of Psychiatry, King’s College University of London
2007 - 2010	<b>Assistant Professor of Translational Neuroscience</b> The Mind Research Network
2007 - 2010	<b>Research Assistant Professor</b> Department of Psychology University of New Mexico
2005 - 2007	<b>Research Assistant Professor</b> Department of Psychology University of Colorado at Boulder
2002 - 2005	<b>Postdoctoral Fellowship</b> Neuroimaging Section, Geriatric Psychiatry Branch National Institute of Mental Health
1998 - 2000	<b>Research Assistant</b> Department of Psychology, Institute of Psychiatry University of London
1995 - 1998	<b>Research Assistant</b> Schizophrenia Research Center Dallas Veterans Affairs Medical Center

**Current Memberships to Professional Societies**

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American College on Neuropsychopharmacology  
 American Psychological Society  
 Human Brain Mapping  
 Society for Neuroscience  
 Cognitive Neuroscience Society  
 Society for Behavioral Medicine  
 Research Society for Alcoholism  
 College on Problems of Drug Dependence

**Recognition and Awards**

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2020	Elected Full Member, American College of Neuropsychopharmacology
2019	LEAD UTD
2019	Federal Research Innovation and Expenditures Dynamo (FRIENDs) of the Office of Research, UTD
2015	Bert Moore Endowed Chair in BrainHealth
2014	Elected Associate Member, American College of Neuropsychopharmacology Elected Member, College on Problems of Drug Dependence Behavioral and Brain Sciences, UT Dallas, Faculty Foreign Travel Award
2010	NIDA “Frontiers in Addiction Research” Travel Award NIDA CPDD Travel Award UCLA Advanced NeuroImaging Training Program Fellowship
2009	NIDA “Frontiers in Addiction Research” Travel Award
2008	The International Society of Psychiatric Genetics Travel Award
2007	Research Society on Alcoholism Junior Investigator Meeting Award

	Enoch Gordis Award Finalist
2006	NIDA Research Training Institute Award
2004	International Conference on Biomagnetism Young Investigator Award
2002	Summer Institute in Cognitive Neuroscience McDonnell Foundation Fellowship
2001	NIMH Postdoctoral Intramural Research Training Award
2000	World Congress on Schizophrenia Research Young Scientist Award International Congress on Psychiatric Genetics Scholarship <i>Brain</i> Travel Grant Award
1998	Psychological Medicine Graduate Program Scholarship
1997	Dallas Veterans Affairs Medical Center Performance Award

### **Achievements in Original Achievement, Investigation and Research**

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#### **A. Peer-reviewed Publications** (\*supervised trainee):

1. \*Edwards, D. and **Filbey, FM** (under review). Are sweet dreams made of these?: Associations between cannabis use and sleep, *Cannabis and Cannabinoid Research*.
2. **Filbey FM**, Beaton D, Prashad S. (2021). The contributions of the endocannabinoid system and stress on the neural processing of reward stimuli. *Prog Neuropsychopharmacol Biol Psychiatry*. 2021;106:110183. Epub 2020/11/23. doi: 10.1016/j.pnpbp.2020.110183. PubMed PMID: 33221340.
3. \*Taylor, M. and **Filbey, FM** (2021). Residual effects of cannabis use on effort-based decision-making in cannabis users, *Journal of the International Neuropsychological Society*. In press.
4. Vilches JR, Taylor MB, **Filbey FM**. A Multiple Correspondence Analysis of Patterns of CBD Use in Hemp and Marijuana Users. *Front Psychiatry*. 2020;11:624012. Epub 2021/02/02. doi: 10.3389/fpsyt.2020.624012. PubMed PMID: 33519562; PMCID: PMC7840961.
5. Kuhns L, Kroon E, **Filbey F**, Cousijn J. Unraveling the role of cigarette use in neural cannabis cue reactivity in heavy cannabis users. *Addict Biol*. 2020:e12941. Epub 2020/08/08. doi: 10.1111/adb.12941. PubMed PMID: 32761688.
6. Wade, N. E., Bagot, K. S., Tapert, S. F., Gruber, S. A., **Filbey, F. M.**, & Lisdahl, K. M. (2020). Cognitive Functioning Related to Binge Alcohol and Cannabis Co-Use in Abstinent Adolescents and Young Adults. *J Stud Alcohol Drugs*, 81(4), 479-483. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32800084>
7. \*Yoo, H. B., Moya, B. E., & **Filbey, F. M.** (2020). Dynamic functional connectivity between nucleus accumbens and the central executive network relates to chronic cannabis use. *Hum Brain Mapp*. doi:10.1002/hbm.25036
8. \*Prashad, S., Hammonds, R. P., Wiese, A. L., Milligan, A. L., & **Filbey, F. M.** (2020). Sex-related differences in subjective, but not neural, cue-elicited craving response in heavy cannabis users. *Drug Alcohol Depend*, 209, 107931. doi:10.1016/j.drugalcdep.2020.107931
9. Aloï, J., Blair, K. S., Crum, K. I., Bashford-Largo, J., Zhang, R., Lukoff, J., . . . Blair, R. J. R. (2020). Alcohol Use Disorder, But Not Cannabis Use Disorder, Symptomatology in Adolescents Is Associated With Reduced Differential Responsiveness to Reward Versus Punishment Feedback During Instrumental Learning. *Biol Psychiatry Cogn Neurosci Neuroimaging*, 5(6), 610-618. doi:10.1016/j.bpsc.2020.02.003
10. Rajapaksha R, Hammonds R, **Filbey F**, Choudhary PK, Biswas S. A preliminary risk prediction model for cannabis use disorder. *Prev Med Rep*. 2020;20:101228. Epub 2020/11/19. doi: 10.1016/j.pmedr.2020.101228. PubMed PMID: 33204605; PMCID: PMC7649639.
11. Aloï, J, Blair, KS, Meffert, H, White, SF, Hwang, S, Tyler, PM, Crum, KI, Thornton, LC, Mobley, A, Killanin, AD, **Filbey, FM**, Pope, K, and Blair, RJR. (2020). Alcohol use disorder and cannabis use

- disorder symptomatology in adolescents is associated with dysfunction in neural processing of future events. *Addiction Biology*.
12. \*Taylor, M., Cousjin, J., and **Filbey, F.M.** (2019). Determining risks for cannabis use disorder in the face of changing legal policies. *Current Addiction Reports*.
  13. Shollenbarger, S., Thomas, A.M., Wade, N.E., Gruber, S.A., Tapert, S.F., **Filbey, F.M.**, and Lisdahl, K.M. (2019). "Intrinsic Frontolimbic Connectivity and Mood Symptoms in Young Adult Cannabis Users." *Front Public Health* **7**: 311.
  14. Thayer RE, Hansen NS, Prashad S, Karoly HC, **Filbey FM**, Bryan AD, Feldstein Ewing SW. Recent tobacco use has widespread associations with adolescent white matter microstructure. *Addict Behav.* 2020;101:106152. Epub 2019/10/23. doi: 10.1016/j.addbeh.2019.106152. PubMed PMID: 31639638; PMCID: PMC7328131
  15. \*Yoo, H. B. and **Filbey, F.M.** (2019). "Interaction of Cannabis Use and Aging: From Molecule to Mind." *J Dual Diagn*: 1-37.
  16. Leiker, E. K., Meffert, H., Thornton, L.C., Taylor, B.K., Aloj, J., Abdel-Rahim, H., Shah, N., Tyler, P.M., White, S.F., Blair K.S., **Filbey, F.**, Pope, K., Dobbertim, M., and Blair, R.J.R. (2019). "Alcohol use disorder and cannabis use disorder symptomatology in adolescents are differentially related to dysfunction in brain regions supporting face processing." *Psychiatry Res Neuroimaging* **292**: 62-71.
  17. Wade, N.E., Thomas, A.M., Gruber, S.A., Tapert, S.F., **Filbey, F.M.**, & Lisdahl, K.M. (2019). "Binge and cannabis co-use episodes in relation to white matter integrity in emerging adults". *Cannabis and Cannabinoid Research*. doi: 10.1089/can.2018.0062
  18. Liu, Y., Wildenberg, W.P., Graff, Y.D., Ames, S.L., Baldacchion, A., Ragnhild, B., Cadaveira, F., Campanella, S., Christiansen, P., Claus, E.D., Colzato, L.S., **Filbey, F.M.**, Foxe, J.J., . . . Wiers, R. W. (2019). "Is (poly-) substance use associated with impaired inhibitory control? A mega-analysis controlling for confounders". *Neuroscience & Biobehavioral Reviews*. doi:10.1016/j.neubiorev.2019.07.006
  19. Blair, R. J., White, S. F., Tyler, P. M., Johnson, K., Lukoff, J., Thornton, L. C., Leiker, E.K., **Filbey, F.**, Dobbertin, M., Blair, K.S. (2019). "Threat Responsiveness as a Function of Cannabis and Alcohol Use Disorder Severity". *Journal of Child and Adolescent Psychopharmacology*. doi: 10.1089/cap.2019.0004
  20. Aloj, J., Meffert, H., White, S. F., Blair, K. S., Hwang, S., Tyler, P. M., Thornton, L.C., Crum, K.I., Adams, K.O., Killanin, A.D., **Filbey, F.**, Pope, K., and Blair, R. J. R. (2019). "Differential dysfunctions related to alcohol and cannabis use disorder symptoms in reward and error-processing neuro-circuitries in adolescents". *Dev Cogn Neurosci*, **36**, 100618. doi:10.1016/j.dcn.2019.100618
  21. Chen, J., Hutchison, K. E., Bryan, A. D., **Filbey, F. M.**, Calhoun, V. D., Claus, E. D., . . . Liu, J. (2018). Opposite Epigenetic Associations With Alcohol Use and Exercise Intervention. *Front Psychiatry*, **9**, 594. doi:10.3389/fpsy.2018.00594
  22. \*Prashad, S., Detric, E. S., To, W. T., Vanneste, S., and **Filbey, F. M.** (2018). Testing the role of the posterior cingulate cortex in processing salient stimuli in cannabis users: an rTMS study. *Eur J Neurosci*. doi:10.1111/ejn.14194
  23. Aloj, J., Blair, K. S., Crum, K. I., Meffert, H., White, S. F., Tyler, P. M., Thornton, L.C., Mobley, A.M., Killanin, A.D., Adams, K.O., **Filbey, F.M.**, Pope, K., Blair, R. J. R. (2018). "Adolescents show differential dysfunctions related to Alcohol and Cannabis Use Disorder severity in emotion and executive attention neuro-circuitries". *Neuroimage Clin*, **19**, 782-792. doi:10.1016/j.nicl.2018.06.005
  24. \*Prashad, S., Detric, E. S., and **Filbey, F. M.** (2018). Cannabis users exhibit increased cortical activation during resting state compared to non-users. *Neuroimage*, **179**, 176-186. doi:10.1016/j.neuroimage.2018.06.031

25. **Filbey, F. M.**, Gohel, S., Prashad, S., and Biswal, B. B. (2018). Differential associations of combined vs. isolated cannabis and nicotine on brain resting state networks. *Brain Struct Funct.* doi:10.1007/s00429-018-1690-5
26. \*Ketcherside, A., **Filbey, F. M.**, Aubert, P. M., Seibyl, J. P., Price, J. L., and Adinoff, B. (2018). Brain intrinsic network connectivity in individuals with frequent tanning behavior. *Am J Drug Alcohol Abuse*, 44(6), 668-677. doi:10.1080/00952990.2018.1461878
27. Cousijn, J., Nunez, A. E., and **Filbey, F. M.** (2018). Time to acknowledge the mixed effects of cannabis on health: a summary and critical review of the NASEM 2017 report on the health effects of cannabis and cannabinoids. *Addiction*, 113(5), 958-966. doi:10.1111/add.14084
28. \*Prashad, S., Milligan, A. L., Cousijn, J., and **Filbey, F. M.** (2017). Cross-Cultural Effects of Cannabis Use Disorder: Evidence to Support a Cultural Neuroscience Approach. *Curr Addict Rep*, 4(2), 100-109. doi:10.1007/s40429-017-0145-z
29. Mason, B., Van Enkevort, E., **Filbey, F.**, Marx, C.E., Park, J., Nakamura, A., Sunderajan, P., Brown, E.S. (2017) Neurosteroid levels in patients with bipolar disorder and a history of cannabis use disorders, *Journal of Clinical Psychopharmacology*.
30. \*Ketcherside, Ariel, Noble Lindsey J., McIntyre Christa K and **Francesca M. Filbey** (2017) Cannabinoid Receptor 1 Gene by Cannabis Use Interaction on CB1 Receptor Density, *Cannabis and Cannabinoid Research*, 2(1): 202-209.
31. \*Prashad, S., and **Filbey, F. M.** (2017). Cognitive motor deficits in cannabis users. *Curr Opin Behav Sci*, 13, 1-7. doi:10.1016/j.cobeha.2016.07.001
32. **Filbey, Francesca M.**, Aslan, Sina, Lu, Hanzhang, and Peng, Shin-Lei. 2017. "Residual Effects of THC via Novel Measures of Brain Perfusion and Metabolism in a Large Group of Chronic Cannabis Users." *Neuropsychopharmacology* doi: 10.1038/npp.2017.44. [Epub ahead of print]
33. Gu, X. and **F. Filbey** (2017) A Bayesian Observer Model of Drug Craving. *JAMA Psychiatry*, 74(4): p. 419-420.
34. Feldstein Ewing, S.W., Chung, T., Caouette, J.D., Ketcherside, A., Hudson., K., **Filbey, F.M.** (2017) Orbitofrontal cortex connectivity as a mechanism of adolescent behavior change. *Neuroimage*, 151: p. 14-23.
35. **Filbey, F.M.** and Yezhuvath, U. (2017). A multi-modal study of impulsivity and body weight: Integrating behavioral, cognitive and neuroimaging approaches. *Obesity*, 25 (1): 147–154.
36. Mason, B.L., Mustafa, A., **Filbey, F.**, and Brown, S.E. (2016). Novel Pharmacotherapeutic Interventions for Cannabis Use Disorder. *Current Addiction Reports* (3): 214-220.
37. \*Ketcherside, K.A., Baine, J., **Filbey, F.M.** (2016). Sex effects of marijuana on brain structure and function. *Current Addiction Reports*, 3 (2), 323-331
38. \*Prashad, S. and **Filbey, F.M.** (2016). Cognitive motor deficits in cannabis users. *Current Opinion in Behavioral Sciences*, 13: 1–7.
39. Chung, T., Noronha, A., Carroll, K.M., Potenza, M.N., Hutchison, K., Calhoun, V.D., Gabrieli, J.D.E., Morgenstern, J., Nixon, S.J., Wexler, B., Brewer, J., Ray, L., **Filbey, F.**, Strauman, T.J., Kober, H., Feldstein Ewing, S.W. Brain mechanisms of change in addictions treatment: Models, Methods, and Emerging Findings. *Current Addiction Reports*, 3: 332. doi:10.1007/s40429-016-0113-z.
40. **Filbey FM.** Weeding Through Marijuana's Effects on the Brain. *JAMA Psychiatry*. 2016. doi: 10.1001/jamapsychiatry.2016.1133. PubMed PMID: 27384104.
41. Feldstein Ewing SW, Claus ED, Hudson KA, **Filbey FM**, Yakes Jimenez E, Lisdahl KM, et al. (2016). Overweight adolescents' brain response to sweetened beverages mirrors addiction pathways. *Brain Imaging Behav.* 1-11. doi: 10.1007/s11682-016-9564-z. PubMed PMID: 27392791.

42. **Filbey, F.M.**, Joseph Dunlop, Jessica Baine, Tyler Rhinehardt, Ariel Ketcherside, Samuel DeWitt, (2016). fMRI study of neural sensitization to hedonic stimuli in long-term, daily cannabis users. *Human Brain Mapping*, 36 (10): 3431–3443.
43. Aubert PM, Seibyl JP, Price JL, Harris TS, **Filbey FM**, Jacobe H, et al. Dopamine efflux in response to ultraviolet radiation in addicted sunbed users. *Psychiatry Res*. 2016;251:7-14. doi: 10.1016/j.psychres.2016.04.001. PubMed PMID: 27085608.
44. \*Ketcherside, A., Hattie Jeong-Slaughter, Jessica Baine, **Filbey, F.M.** (2016). Discriminability of Personality Profiles in Isolated and Co-Morbid Marijuana and Nicotine Users. *Psychiatry Research*, 238: 356-362.
45. **Filbey, F.M.**, McQueeney, T, and DeWitt, S. (2015) Preliminary Findings Demonstrating Latent Effects of Early Adolescent Marijuana Use Onset on Cortical Architecture. *Developmental Cognitive Neuroscience*, 16: 16-22.
46. Feldstein Ewing, S.W., Houck, J.M., Yezhuvath, U., Kojori, E.S., Truitt, D. and **Filbey, F.M.** (2015) The impact of therapists' words on the adolescent brain: In the context of addiction treatment. *Behavioural Brain Research*, 297: 359-369.
47. \*DeWitt SJ, \*Ketcherside A, McQueeney TM, Dunlop JP, **Filbey FM**. (2015). The hyper-sentient addict: an interoception model of addiction. *Am J Drug Alcohol Abuse*. 41(5):374-81.
48. **Filbey, F.M.**, McQueeney, T., Kadamangudi, S., Bice, C., Ketcherside, A. (2015) Combined Effects of Marijuana and Nicotine on Memory Performance and Hippocampal Volume. *Behavioural Brain Research*, 293:46-53.
49. Feldstein Ewing, **Filbey, F.M.**, Loughran, T.A., Chassin, L., Piquero, A (2015). Which matter most? Demographic, Neuropsychological, Personality, and Situational Factors in Long-Term Marijuana and Alcohol Trajectories for Justice-Involved Male Youth." *Psychology of Addictive Behaviors*, (3):603-12.
50. \*Ketcherside, A. and **Filbey, F.M.** (2015). "Mediating processes between stress and problematic marijuana use." *Addict Behav* 45C: 113-118.
51. **Filbey, F.M.**, Aslan, S., Calhoun, V., Spence, J.S., Dasmaraaju, E., Caprihan, A., and Segall, J. (2014). Long-term effects of marijuana use on the brain. *Proceedings of the National Academy of Sciences*, 111 (47): 16913-16918. doi: 10.1073/pnas.1415297111
52. Feldstein Ewing SW, Yezhuvath U, Houck JM, **Filbey FM** (2014) Brain-based origins of change language: a beginning. *Addict Behav* 39: 1904-1910.
53. \*Beaton D, Abdi H, **Filbey FM** (2014) Unique aspects of impulsive traits in substance use and overeating: specific contributions of common assessments of impulsivity. *Am J Drug Alcohol Abuse* 40: 463-475.
54. **Filbey, F.M.** and Dunlop, J. (2014). Differential reward network functional connectivity in cannabis dependent and non-dependent users. *Drug and Alcohol Dependence* (140): 101-111.
55. \*DeWitt, S. J., Aslan, S., and **Filbey, F. M.** (2014). Adolescent risk-taking and resting state functional connectivity. *Psychiatry Res*, 222(3), 157-164. doi: 10.1016/j.psychres.2014.03.009
56. Peng, S. L., Dumas, J. A., Park, D. C., Liu, P., **Filbey, F. M.**, McAdams, C. J., . . . Lu, H. (2014). Age-related increase of resting metabolic rate in the human brain. *Neuroimage*. doi: 10.1016/j.neuroimage.2014.04.078
57. Liu, P., Lu, H., **Filbey, F. M.**, Pinkham, A. E., McAdams, C. J., Adinoff, B., . . . Cao, Y. (2014). Automatic and reproducible positioning of phase-contrast MRI for the quantification of global cerebral blood flow. *PLoS One*, 9(5), e95721. doi: 10.1371/journal.pone.0095721
58. Liu, P., Lu, H., **Filbey, F. M.**, Tamminga, C. A., Cao, Y., and Adinoff, B. (2014). MRI assessment of cerebral oxygen metabolism in cocaine-addicted individuals: hypoactivity and dose dependence. *NMR Biomed*, 27(6), 726-732. doi: 10.1002/nbm.3114
59. Claus, E.D., Blaine, S., **Filbey, F.M.**, Mayer, A., and Hutchison, K. (2013) Effects of cigarette use and a CHRNA3 polymorphism on BOLD responses after exposure to smoking cues.

- Neuropsychopharmacology*. *Neuropsychopharmacology*. 38(12):2363-72. doi: 10.1038/npp.2013.134.
60. **Filbey, F.M.**, and Yezhuvath, U. (2013). Functional connectivity in inhibitory control networks and severity of cannabis use disorder. *American Journal of Drug and Alcohol Abuse*. 39 (6) 382–391.
  61. \*Ketcherside, A., Matthews, I., and **Filbey, F.** (2013). The Serotonin Link between Alcohol Use and Affective Disorders. *Journal of Addiction and Prevention*. 1(2).
  62. **Filbey, F.M.**, Dunlop, J., and Myers, U.M. (2013). Neural response differences during positive and negative incentives in marijuana users in withdrawal. *PLoS One*. 8(5): e61470. doi:10.1371/journal.pone.0061470.
  63. Claus, E. D., Feldstein Ewing, S. W., **Filbey, F. M.**, and Hutchison, K. E. (2013). Behavioral control in alcohol use disorders: relationships with severity. *J Stud Alcohol Drugs*, 74(1): 141-151.
  64. Feldstein Ewing, S. W., McEachern, A. D., Yezhuvath, U., Bryan, A. D., Hutchison, K. E., and **Filbey, F. M.** (2012). Integrating Brain and Behavior: Evaluating Adolescents' Response to a Cannabis Intervention. *Psychology of Addictive Behaviors* 27(2): 510-525. doi: 10.1037/a0029767
  65. \*Beaton, D., **Filbey, F.M.**, and Abdi, H. (2012). Integrating partial least squares correlation and correspondence analysis for nominal data. *Proceedings on Mathematics and Statistics*.
  66. **Filbey, F.M.**, Myers, U., and DeWitt, S. (2012). Reward system function and loss of control over eating in high BMI individuals: Similarities with addiction. *NeuroImage*. 63(4): 1800-6. doi: 10.1016.
  67. Feldstein Ewing, S. W., McEachern, A. D., Yezhuvath, U., Hutchison, K. E., and **Filbey, F. M.** (2012). A preliminary examination of how serotonergic polymorphisms influence brain response following an adolescent cannabis intervention. *Psychiatry Research: Genetics*. 204(2-3): 112-116. doi: 10.1016/j.psychres.2012.10.011.
  68. **Filbey, F.M.** and DeWitt, S.D. (2012). Cannabis Cue-elicited Craving and the Reward Neurocircuitry. *Progress in Neuropsychopharmacology and Biological Psychiatry*. 38 (1): 30-35.
  69. Schacht, J., Hutchison, K.E., and **Filbey, F.M.** (2012). Associations between Cannabinoid Receptor-1 (CNR1) Variation and Hippocampus and Amygdala Volumes in Heavy Cannabis Users. *NeuroImage*, 37: 2368-2376. doi: 10.1038/npp.2012.92.
  70. Feldstein Ewing, S. W., **Filbey, F. M.**, Hendershot, C., McEachern, A., and Hutchison, K. E. (2011). A Proposed Model of the Neurobiological Mechanisms underlying Psychosocial Alcohol Interventions: The Example of Motivational Interviewing and Functional Magnetic Resonance Imaging. *Journal of Studies on Alcohol and Drugs*, 72, 903-916.
  71. Claus, E., Feldstein Ewing, S., **Filbey, F.M.**, Sabbineni, A., and Hutchison, K.E. (2011) Identifying neurobiological phenotypes associated with alcohol use disorder severity, *Neuropsychopharmacology*. 36 (10): 2086-2096. doi: 10.1038/npp.2011.99.
  72. **Filbey, F.M.**, Claus, E.D., Forester, G., Morgan, M. and Hutchison, K.E. (2011). Dopaminergic genes modulate response inhibition in alcohol abusing adults. *Addiction Biology*, 16: no. doi: 10.1111/j.1369-1600.2011.00328.x
  73. Allen, E.A., Erhardt, E.B., Damaraju, E., Gruner, W., Segall, J., Silva, R.F., Havlicek, M., Rachakonda, S., Fries, J., Kalyanam, R., Michael, A.M., Caprihan, A., Turner, J.A., Eichele, T., Adelsheim, S., Bryan, A., Bustillo, J., Clark, V.P., Feldstein Ewing, S., **Filbey, F.M.**, Ford, C., Hutchison, K., Jung, R., Kiehl, K.A., Koditwakk, P., Komesu, Y., Mayer, A.R., Pearlson, G., Phillips, J., Sadek, J., Stevens, M., Teuscher, U., Thoma, R.B., and Calhoun, V.D. (2010). A baseline for the multivariate comparison of resting state networks *Frontiers in Systems Neuroscience*, 5 (2). doi: 10.3389/fnsys.2011.0000.
  74. Feldstein Ewing, S.W., **Filbey, F.M.**, Sabbineni, A., Chandler, L., and Hutchison, K.E. (2010). How psychosocial interventions work: A Preliminary look at what fMRI can tell us. *Alcoholism: Clinical and Experimental Research*. 35 (4): 643-651.
  75. **Filbey, F.M.**, Chen, G., Sunderland, T., and Cohen, R.M. (2010). Failing compensatory mechanisms during working memory in older apolipoprotein E-ε4 healthy adults. *Brain Imaging and Behavior*. 4(2):177-188.

76. Myers, U.M., Hutchison, K.E., and **Filbey, F.M.** (2010). The roles of the CHRNA5 and early stress on nicotine dependence. *Psychiatry Research*. 177(3):369-370.
77. Vassos, E., Bramon, E., Picchioni, M., Walshe, M., **Filbey, F.M.**, Kravariti, E., McDonald, C., Murray, R.M., Collier, D.A., Touloupoulou, T. (2010). Evidence of association of KIBRA genotype with episodic memory in families of psychotic patients and controls. *Journal of Psychiatry Research*. 44(12):795-798.
78. Feldstein Ewing, S.W., **Filbey, F.M.**, Chandler, L., and Hutchison, K.E. (2010). Exploring the relationship between depressive and anxiety symptoms and neuronal response to alcohol cues. *Alcoholism: Clinical and Experimental Research*. 1;34(3):396-403.
79. **Filbey, F.M.**, Schacht, J., Myers, U.M., Chavez, R., and Hutchison, K.E. (2009). Individual and additive effects of the CNR1 and FAAH genes on brain response to marijuana cues, *Neuropsychopharmacology*. 35(4):967-975.
80. **Filbey, F.M.**, Schacht, J., Myers, U.M., Chavez, R., and Hutchison, K.E. (2009). Marijuana craving in the brain, *Proceedings of the National Academy of Sciences*. 106 (31), 13016-13021.
81. **Filbey, F.M.**, Russell, T., Morris, R.G., Murray, R.M., and McDonald, C. (2008). fMRI of attention processes in presumed obligate carriers of schizophrenia: a pilot study, *Annals of General Psychiatry*. 7:18.
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83. **Filbey, F.M.**, Ray, L., Smolen, A., Claus, E., Audette, A., and Hutchison, K. (2008). Cue-elicited mesocorticolimbic activation and genetic risk: the DRD4 and OPRM1, *Alcoholism: Clinical and Experimental Research*. 32 (7), 1-11.
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86. **Filbey, F.M.**, Claus, E., Tanabe, J., Banich, M., Audette, A., Niculescu, M., and Hutchison, K. (2008). Exposure to the taste of alcohol elicits activation of the mesocorticolimbic neurocircuitry, *Neuropsychopharmacology*. 33 (6), 1391-1401.
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91. Kravariti, E., Touloupoulou, T., **Mapua-Filbey, F.**, McDonald. C., Walshe, M., Sham, P., and Murray, R. (2006). Intellectual asymmetry and genetic liability in first-degree relatives of schizophrenia probands, *British Journal of Psychiatry*. 188, 186-187.



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93. Bramon, E., McDonald, C., Croft, R.J., Landau, S., **Filbey, F.**, Gruzelier, J.H., Sham, P.C., Frangou, S., and Murray, R.M. (2005). Is the P300 wave an endophenotype for schizophrenia? A meta-analysis and a family study, *NeuroImage*. 27(4), 960-968.
94. Touloupoulou, T., **Mapua-Filbey, F.**, Quraishi, S., Kravariti, E., Morris, R.G., McDonald, C., Walshe, M., and Bramon, E., Murray, R. (2005). Cognitive performance in presumed obligate carriers for psychosis, *British Journal of Psychiatry*. 187, 284-285.
95. Dempster, E., Touloupoulou, T., McDonald, C., Bramon, E., Walshe, M., **Filbey, F.**, Wickham, H., Sham, P. C., Murray, R. M., and Collier, D. A. (2005). Association between BDNF val(66) met genotype and episodic memory, *Am J Med Genet B Neuropsychiatry Genet*, 134(1), 73-75.
96. **Filbey, F. M.**, Holroyd, T., Slack, K., Maltzman, L., Coppola, R., Sunderland, T., and Cohen, R. M. (2004). An MEG Study of the Spatiotemporal Dynamics of Feature Binding, *Proceedings of the 14th International Conference on Biomagnetism*.
97. Garver DL, Holcomb J, **Mapua, FM**, Wilson R, Barnes B (2001). Schizophrenia spectrum disorders: an autosomal-wide scan in multiplex pedigrees. *Schizophrenia Research*, 52, 145-160.
98. **Filbey FM**, Holcomb J, Nair TR, Christensen J, Garver DL (1999): Negative symptoms of familial schizophrenia breed true in unstable (vs stable) cerebral-ventricle pedigrees. *Schizophrenia Research*. 35 (1), 15-23.

#### B. Other Scholarly Writings

1. **Filbey, F. M.** (2020). The viability of a standard THC unit. *Addiction*. doi:10.1111/add.14961
2. **Filbey, F. M.** (2020). Introduction to Cannabis Special Issue. *J Dual Diagn*: 1-2.
3. **Filbey, Francesca M.** and Piquero, Alex (2018) Let scientists study the effects of marijuana on the brain as we decide on legalization. *The Dallas Morning News*, Oct 19 2018.
4. **Filbey, F.M.** (2017) Commentary on Lichenstein et al: Escalating cannabis use, weak corticostriatal connections and negative outcome. *Addiction*.
5. Piquero, Alex and **Filbey, Francesca M.** 2017. You can build up self-control to avoid impulsive behaviors that lead to bad outcomes. *The Dallas Morning News*, January 27, 2017.
6. **Filbey, F.M.** (2013). An introduction to "The addiction connectome: brain connectivity in drug and alcohol abuse. *American Journal of Drug and Alcohol Abuse* 39 (6): 341–342.
7. **Mapua Filbey, F**, Bayley, P.J. (2003). The 15th Annual Summer Institute in Cognitive Neuroscience in Review, *NeuroImage* 19 (2), 471-472.

#### C. Books

1. **Filbey, F.M.** (2019). *The Neuroscience of Addiction*. Cambridge University Press, Cambridge, UK.
2. Feldstein Ewing, S.W., Witkiewitz, K., and **Filbey, F.M.** (Eds.) (2015). *Neuroimaging and Psychosocial Treatment*. Palgrave MacMillan, Basingstone, Hampshire, UK.

#### D. Book Chapters

1. Ketcherside, K.A. and **Filbey, F.M.** (2015). Addictions neuroscience. In *Neuroimaging and Psychosocial Addiction Treatment: An Integrative Guide for Researchers and Clinicians*. Sarah Feldstein Ewing, Katie Witkiewitz, **Francesca Filbey** (eds.), Palgrave MacMillan, Basingstone, Hampshire, UK.
2. Cousijn, J and **Filbey, F.M.** (2015). New approaches to treating cannabis dependence: from neuroscience to practice. In *Neuroimaging and Psychosocial Addiction Treatment: An Integrative Guide for Researchers and Clinicians*. Sarah Feldstein Ewing, Katie Witkiewitz, **Francesca Filbey** (eds.), Palgrave MacMillan, Basingstone, Hampshire, UK.

3. DeWitt, S., Kroener, S., and **Filbey, F.M.** (2013). Cue-elicited craving for marijuana activates the reward neurocircuitry associated with the neuropathology of addiction. In *Endocannabinoid Regulation of Monoamines in Psychiatric and Neurological Disorders*. Van Bocksteale, E. (ed.) New York: 55-72.
4. **Filbey, F.**, Claus, E., Hutchison, K.E. (2011). Cue-elicited craving in addiction. In *Neuroimaging in the Addictions*. Adinoff, B. and Stein, E. (eds.), John Wiley and Sons: Chichester, UK: .
5. Touloupoulou, T., **Filbey, F. M.** and Kravariti, E. (2008). Neuropsychological impairments in patients with schizophrenia and their unaffected relatives. In *The Maudsley Family Study of Psychosis: A Quest for Intermediate Phenotypes*, McDonald, C. (ed.) New York: 93 - 131.
6. **Mapua Filbey, F**, Cohen, R, Sunderland, T (2002). Brain Imaging in Dementia. In *Handbook of Medical Psychiatry*, Soares, JC and Gerson, S (eds.). New York: 497-520.

### E. Active Grant Funding:

- |  |                    |
|--|--------------------|
| 2019-2021  | <b>\$26,278</b>    |
| "The Cumulative Risk of Substance Exposure and Early Life Adversity on Child Health Development and Outcomes"    |                    |
| NIH R34  |                    |
| Role: Co-I   |                    |
| 2018-2021  | <b>\$256,933</b>   |
| "Development of Pregnenolone as a Treatment for Depression"  |                    |
| NIH R61  |                    |
| Role: Co-I   |                    |
| 2018-2021 NIH R21  | <b>\$420,750</b>   |
| "Motor Learning Deficits in Cannabis Users"  |                    |
| Role: PI   |                    |
| 2017-2022 NIH 1 R01 DA042490   | <b>\$2,562,338</b> |
| "The Role of Motivation and Control in Cannabis Use Disorders: A Cross-cultural Longitudinal Neuroimaging Study" |                    |
| Role: Co-PI  |                    |
| 2015-2020 NIH R01  | <b>\$29,172</b>    |
| "fMRI Treatment Response with Binge Drinking Adolescents"  |                    |
| Role: Co-I   |                    |

### F. Past Grant Funding:

- 2012-2017 NIH R01 DA030344  
 Genetic and Environmental Modulators of the Brain's Response to Marijuana Cues  
 PI: Filbey
- 2014 Faculty Research Initiative Grant, BBS, UTD  
 "eCigarettes"  
 Role: PI
- 2013 Cutting-Edge Treatment for Intractable Nicotine Dependence  
 The Dallas Foundation

Role: PI

2013 rTMS for Addiction  
UEB Builders  
Role: PI

2013 Addiction and Stress  
Philanthropy Funding  
Role: PI

2013 NIH/NIDA Lidocaine Infusion as a Treatment for Cocaine Relapse and Craving  
Role: co-I

2013 NIH/NIAMS Striatal Dopamine Release in Response to Ultraviolet Light in Compulsive Tanners  
Role: co-I

2007 - 2012 K01 DA021632-01A1  
"The Effects of CNR1 on Brain Function in Cannabis Users"  
Role: PI

2009 – 2011 R21 DA027626-0109 (PI: Jingyu Liu)  
"A multilevel vulnerability study of substance abuse via CNV, brain activation and behaviors"  
Role: Co-I

2010 – 2011 R03 DA27892-01 (PI: Feldstein Ewing)  
"Adolescent response to psychotherapy: The role of neuronal networks"  
Role: Co-I

2010 – 2011 ARRA State of Texas (sub-award)  
"Reward sensitivity and risky behavior in adolescents"

2010 – 2011 DOE Seed Project Grant  
"The trajectory of the neurodevelopmental impact of adolescent-onset marijuana abuse"  
Role: PI

2008 – 2009 MRN Transition Grant  
"Neurogenetic determinants of tobacco initiation and maintenance"  
Role: PI

1999 - 2000 Margaret Temple Fellowship, British Medical Association  
"fMRI of attention in people with schizophrenia and their first-degree relatives"  
Role: PI

**G. Published Conference Abstracts:**

1. \*Ketcherside, Ariel, **Filbey, Francesca M.** 2017. "Model-based differentiation of networks of reward and impulsivity in cannabis use disorders." CNS Annual meeting. San Francisco, CA.
2. \*Prashad, Shikha, Dedrick, Elizabeth, & **Filbey, Francesca M.** 2017. "Motor learning deficits in cannabis users." Poster session presented at: Cognitive Neuroscience Society 24th Annual Meeting; San Francisco, CA.

3. \*Prashad, Shikha, Dedrick, Elizabeth, To, Wing T., Rhinehardt, Tyler, Eroh, Justin, Vanneste, Sven, Hart, John Jr., & **Filbey, Francesca M.** 2016. "EEG resting state analysis of cannabis users of cannabis with and without rTMS." Program No. 77.11.2016 Neuroscience Meeting Planner. Society for Neuroscience. San Diego, CA.
4. \*Ketcherside, Ariel, **Filbey, Francesca M.** 2016. "A novel method for the isolation and quantification of human peripheral cannabinoid receptors." Winter Conference on Brain Research. Breckenridge, CO.
5. \*DeWitt, Sam J., **Filbey, Francesca M.** 2016. "The neural underpinnings of adolescent emotion regulation in the context of reward pursuit." Presented at Annual Society for Neuroscience Meeting. San Diego, CA.
6. \*DeWitt, Sam J., Chan, M.Y., and **Filbey, Francesca M.** 2015. "Increased global efficiency and resting state functional connectivity in salience network associated with increased harm avoidance in risk-taking adolescents." Presented at Annual Cognitive Neuroscience Society Meeting. San Francisco, CA.
7. \*Ketcherside, Ariel, **Filbey, Francesca M.** 2015. "The point of a joint: a multivariate classification of marijuana use motives." College on Problems of Drug Dependence annual meeting. Phoenix, AZ.
8. \*Ketcherside, Ariel, **Filbey, Francesca M.** 2014. "Multivariate analyses of alcohol use disorder symptoms and personality traits in cannabis users." Texas Research Society on Alcoholism annual meeting. San Antonio, TX.
9. \*Ketcherside, Ariel, **Filbey, Francesca M.** 2013. "Mediating processes between stress and problematic marijuana use." Society for Neuroscience Annual Meeting. San Diego, CA.
10. \*DeWitt, Sam, J., Dunlop, Joseph, Yezhuvath, Uma, and **Filbey, Francesca M.** 2013. "Reduced parahippocampal response associated with reward anticipation in risk-taking adolescents." Presented at Annual Society for Neuroscience Meeting. San Diego, CA.
11. \*DeWitt, Sam J., Aslan, Sina, Chukwueke, Nneka, Germer, Vicki, and **Filbey, Francesca M.** 2012. "Adolescent Risk Taking and Resting State Functional Connectivity." Presented at Annual Society for Neuroscience Meeting. New Orleans, LA.
12. **Filbey, F.M.**, Crotwell, D, Myers, U.S., and Hutchison, K. (2009). The higher the calories, the greater the mesocorticolimbic response. *Annals of Behavioral Medicine*, 39, s90. Poster presented at the Society of Behavioral Medicine's 31<sup>st</sup> Annual Meeting. Seattle, Washington.
13. Myers, U.S., Hutchison, K.E., Mayer, A.R., Claus, E.D., Vermont, L.N., Soto-Endicott, F., and **Filbey, F.M.** (2009). Effects of subjective craving report on neural response to smoking cues. *Annals of Behavioral Medicine*, 39, s36. Poster presented at the Society of Behavioral Medicine's 31<sup>st</sup> Annual Meeting. Seattle, Washington.
14. Bryan, A.D., Feldstein Ewing, S., **Filbey, F.M.**, Nyalakanti, P., Kiehl, K.A., and Hutchison, K.E. (April, 2009). Neurocognitive correlates of risky sexual behavior in adolescents: An fMRI approach. Poster to be presented at the Society of Behavioral Medicine's 30th Annual Meeting. Montreal, Quebec, Canada.
15. Chandler, L., **Filbey, F.**, Nyalakanti, P., Bryan, A., Kiehl, K., Hutchison, K., and Feldstein Ewing, S. W. (April, 2009). Searching for the Connection: The Relationship Between Biological and Behavioral Correlates of Adolescent Alcohol Abuse, Poster to be presented at the Society for Research in Child Development, Denver, CO.
16. **Filbey, F.**, Morgan, M., and Hutchison, K.E., (2008) DRD4 methylation is associated with greater functional alterations in insular cortex of heavy drinkers who also smoke, Poster presented at the World Congress on Psychiatric Genetics, Osaka, Japan.
17. **Filbey F.**, Caprihan, A., and Hutchison, K (2008). Effects of regular alcohol use during adolescence on white matter integrity. *NeuroImage*, Poster presented at Human Brain Mapping, Melbourne, Australia.
18. **Filbey F**, Claus, E., and Hutchison, K. (2008). Implications of the CHRNA4 in modulating inhibitory mechanisms in alcohol abuse. *Alcoholism: Clinical and Experimental Research*. Poster presented

- at the Meeting for Research Society on Alcoholism, Washington, D.C.
19. Claus, E., **Filbey, F.**, and Hutchison, K. (2008). Functional connectivity of cue reactivity: An independent component analysis approach to neuroimaging of craving. *Alcoholism: Clinical and Experimental Research*. Poster presented at the Meeting for Research Society on Alcoholism, Washington, D.C.
  20. Claus, E., **Filbey, F.**, and Hutchison, K. (2008). Response inhibition in heavy drinkers: Relationships between inhibition-related brain activation and hazardous drinking. *Alcoholism: Clinical and Experimental Research*. Poster presented at the Meeting for Research Society on Alcoholism, Washington, D.C.
  21. S. W. Feldstein Ewing, **F. Filbey**, L. Vermont, A. Bryan, S. Taborsky-Barba, and K. Hutchison (2008). Starting all things early: Connection between age of initiation of tobacco use and the development of alcohol abuse among late adolescents. *Alcoholism: Clinical and Experimental Research*, S32 (6), 70A. Poster presented at the Meeting for Research Society on Alcoholism, Washington, D.C.
  22. L. Vermont, S. W. Feldstein Ewing, **F. Filbey**, S. Taborsky-Barba, and K. Hutchison (2008). The effect of peer smoking on late adolescents' alcohol and tobacco abuse. *Alcoholism: Clinical and Experimental Research*, S32 (6), 106A. Poster presented at the Meeting for Research Society on Alcoholism, Washington, D.C.
  23. M. S. Byers, S. W. Feldstein Ewing, J. Oroski, **F. M. Filbey**, S. Taborsky-Barba, and K. E. Hutchison (2008). The role of CNR1 polymorphisms in adolescent alcohol and tobacco trajectories. *Alcoholism: Clinical and Experimental Research*, S32 (6), 142A. Poster presented at the Meeting for Research Society on Alcoholism, Washington, D.C.
  24. **Filbey, F.M.**, Claus, E., Audette, A., and Hutchison, K. (2007) Cue-elicited Mesocorticolimbic activation and DRD4 VNTR, *Alcoholism: Clinical and Experimental Research*, 31 (6S), 245. Poster presented at the Meeting for Research Society on Alcoholism, Chicago, IL.
  25. **Filbey, F.M.**, Slack, K.J., Sunderland, T. and Cohen, R.M., (2005) Increased BOLD activity in midline frontal areas associated with apolipoprotein allele-ε4 status in young healthy adults, *NeuroImage*, 26 (1). Presented in Human Brain Mapping, Toronto, Canada, June 12 – 16, 2005.
  26. **Mapua-Filbey F**, Morris RG, Murray RM (2001). The use of the sporadic-familial dichotomy in global neuropsychological deficits in schizophrenia. *Schizophrenia Research*, 49 (1-2). Poster presented at the Meeting for Schizophrenia Research, Santa Fe, NM.
  27. **Mapua-Filbey F**, Morris RG, McDonald C, Murray RM (2000). Neuropsychological performance in families from the Maudsley Family Psychosis Study. *Schizophrenia Research*, 41 (1), 289. Poster presented at the Meeting for Schizophrenia Research, Davos, Switzerland.
  28. **Mapua-Filbey F**, Morris RG, McDonald C, Murray RM (2000). Memory and attention in patients with familial versus non-familial schizophrenia. *Schizophrenia Research*, 41 (1), 280. Poster presented at the Meeting for Schizophrenia Research, Davos, Switzerland.
  29. **Mapua-Filbey F**, McDonald C, Morris RG, Murray RM (2000). CPT in relation to the PANSS. *Schizophrenia Research*, 41 (1), 285. Poster presented at the Meeting for Schizophrenia Research, Davos, Switzerland.
  30. **Mapua-Filbey F**, Morris RG, McDonald C, Murray, RM (1999): Attentional impairments in schizophrenics and their obligate carriers. *Molecular Psychiatry*, 4 (S120). Poster presented at the World Congress for Psychiatric Genetics, Monterey, CA.
  31. Barnes RI, Wilson, R, Holcomb, J, Kizer A, **Filbey M**, Bowcock AM, Garver DL (1999): Interaction between loci may increase susceptibility to schizophrenia. *Molecular Psychiatry*, 4 (S30). Poster presented at the World Congress for Psychiatric Genetics, Monterey, CA.
  32. Garver DL, Wilson R, Holcomb J, Barnes, R, **Filbey F**, Kizer A (1999): Interaction of susceptibility sites in familial schizophrenia. *Molecular Psychiatry*, 4 (S34). Poster presented at the World Congress for Psychiatric Genetics, Monterey, CA.

33. Garver D, **Filbey F**, Vawter M, Holcomb J, Nair R, Tekell J, Kingsbury S, Christensen J (1998). Schizophrenia: Multiple disease processes and clinical differences. *Biological Psychiatry*, 43 (S8), 430.
34. Garver DL, Barnes R, Holcomb J, **Filbey F**, Wilson R, Bowcock A (1998): Genome-wide scan and schizophrenia in African Americans. *American Journal of Medical Genetics*, 81 (6), 454-455.
35. **Filbey FM**, Holcomb J, Fulton M, Nair TR, Christensen JD, Garver DL (1997): Negative symptoms of expanding-ventricle schizophrenias breed true. *American Journal of Medical Genetics*, 74 (6), 596. Poster presented at the Meeting for Schizophrenia Research, Santa Fe, NM.

#### **H. Invited talks to professional meetings:**

1. "Cannabis use and the brain: What have we learned from neuroimaging studies?", Idaho Neuroscience of Addiction Coalition, Boise, ID, Sept. 18, 2019.
2. "The teenage brain: Effects of Drugs and Alcohol", CARE Community Education Forum, Dallas, TX, Sept 10, 2019.
3. "What do we know about Marijuana's Effects on the Brain?", 7<sup>th</sup> Annual Neuroscience Symposium, Kent State University, Kent, OH, April 5, 2019.
4. "Adolescent Substance Use and Arrested Development", Upward Hope Academy, Galveston, TX, April 22, 2019.
5. Discussant for symposium entitled, "A global 'bench to bedside' perspective on the continuum from cannabis use through use disorders", ICPS, Paris, France, March 8, 2019.
6. "Marijuana and the Brain", Laureate Institute of Brain Research, Tulsa, OK, January 17, 2019
7. "Cannabis Use and Reward", Summer Institute in Addiction, University of Utrecht, Utrecht, The Netherlands, August 29, 2018.
8. "Cannabis Use and The Brain: What Have We Learned from Neuroimaging Studies?", BrainHealth Conference, INOVA Center for Personalized Health Conference Center, Falls Church, VA, September 21, 2018.
9. "Marijuana and the Brain: What Have We Learned from Long-term Users?" UCLA ICA Seminar, UCLA, Los Angeles, CA, March 8, 2018.
10. "Effects of Marijuana Use on Brain Structure and Function", Neuroimaging is a Team Sport, UTSW and UTD Colloquium, UTSW, Dallas, TX, January 26, 2018.
11. "Marijuana and the Brain", Sips and Science, Brain Performance Institute, Dallas, TX, December 7, 2017.
12. "The Craving Brain", Brain Matters Series, Center for BrainHealth, Dallas, TX, October 24, 2017.
13. UTD Freshman Class Presentation, UT Dallas, November 1, 2017.
14. "Adolescent Risk-Taking: Perspectives from the Brain", Westfield Schools, Dallas, TX, September 19, 2017.
15. "Neuroimaging Studies of Marijuana", President's Dream Colloquium, Simon Fraser University, Vancouver, Canada, February 23, 2017.
16. "Altered Neurophysiology in Marijuana Users", Annual Meeting of the American College of Neuropsychopharmacology, Hollywood, FL, December, 2016.
17. "Long-term Effects of Marijuana in the Brain", Association for the Studies of Pain, San Diego, CA, November, 2016.
18. "Marijuana and the Brain: Imaging Studies of Long-Term Heavy Marijuana Users", Scientific Lecture Series, Center for Vitality and Longevity, The University of Texas at Dallas, October, 2016.
19. "Marijuana and the Brain: Imaging Studies of Long-Term Heavy Marijuana Users", Colorado State University, Longmont, CO., September, 2016.
20. "Potential Mechanisms of Cognitive Dysfunction in Cannabis Users", Annual Convention of the American Psychological Association, Denver, CO, August 6, 2016.

21. "Conceptual Models of Mediating and Moderating Variables of Obesity", Second Annual Short Course on Strengthening Causal Inference in Behavioral Obesity Research, University of Alabama at Birmingham, July 29, 2016.
22. "Graph-theoretical modeling of brain connectivity in long-term, heavy cannabis users", CPDD, Palm Springs, CA, June 13, 2016.
23. "Marijuana and the Brain: Neuroimaging Studies in Long Term, Heavy Users", Research Institute in Addictions, Buffalo, NY, April 29, 2016.
24. "Combined Effects of Marijuana and Nicotine on Hippocampal Volume and Memory", Annual Meeting of the International Neuropsychological Society, Sydney, Australia, July 3, 2015
25. "Latent Effects of Early vs. Late Adolescent Marijuana Use Onset on Cortical Architecture", Meeting of the American Psychological Association, Toronto, Canada, Aug, 2015.
26. "Genetic modulators of brain morphometry in marijuana users", Meeting of the College on Problems of Drug Dependence, Scottsdale, AZ, June 17, 2015.
27. "Conceptual Models of Mediating and Moderating Variables of Obesity", First Short Course on Strengthening Causal Inference in Behavioral Obesity Research, University of Alabama at Birmingham, July 24, 2015.
28. "Imaging Mechanisms of Behavior Change in Motivational Interviewing: *Perspectives from a Clinician and Neuroimager*" (Co-Presentation with Dr. Sarah Feldstein Ewing) Science of Change Satellite Meeting at the Research Society on Alcoholism, July 2015
29. "The effects of marijuana use on the brain", UTSW Psychiatry Grand Rounds, Oct. 22, 2014.
30. "Long-term consequences of adolescent cannabis exposure: Evidence from human neuroimaging studies", National Hispanic Science Network on Drug Abuse Meeting, El Paso, September 6, 2014.
31. "Multilocus approach to gene x environmental factors of marijuana dependence", Meeting of American Psychological Society, San Francisco, May 22-25, 2014.
32. "Why the brain wants what it wants", BrainHealth Lecture Series, Dallas, February 27, 2014.
33. "Impact of chronic marijuana use on the brain's reward and self-regulatory networks", ACNP, Hollywood, Florida, November 11, 2013.
34. "Looking in the adolescent brain", Healthy Connections: Shaping Relationships and Achievement in High School, Dallas, TX, The 4<sup>th</sup> Annual Forum on Children and Families, October 11, 2013.
35. "What does a pothead look like?" LLC (Living Learning Community) Freshman Talk, University of Texas at Dallas, October 10, 2013.
36. "Reward-centricity in marijuana users", Reprogramming the Brain to Health Research Symposium, Berkeley, University of California, March 28, 2013.
37. "Neural mechanisms of cannabis abuse and dependence", Young Investigator honored speaker, NIDA Regular Seminar Series, Rockville, MD, November 14, 2012.
38. "Functional and structural connectivity in chronic marijuana and tobacco smokers", Dys-connectivity of the brain in addiction and pain (Presentation Symposium). Meeting of the American Psychiatric Association, Philadelphia, PA. May 5, 2012.
39. "Correlates of reward processes in substance abusers", Department of Pharmacology, University of Texas Health Sciences Center in San Antonio. April 23, 2012.
40. "Connectivity analyses in addiction", Symposium on Corticostriatal Circuits in Neuropsychiatric Disorders, Dallas, TX, April 13, 2012.
41. "Correlates of reward processes in substance abusers", Neuroscience Brown Bag, University of Texas at Dallas, Dallas, TX, April 8, 2012.
42. "Underlying brain mechanisms of addiction", Neuroscience Student Association Guest Speaker, University of Texas at Dallas, Dallas, TX, March 5, 2012.
43. "Underlying brain mechanisms of addiction", Colloquium, Department of Psychology, University of Texas at Arlington, Arlington, TX. February 24, 2012.
44. "The addicted brain", Think Ahead Group (TAG) Grey Matters Series, Dallas, TX, January 27, 2011.

45. "Early life stress affects later life executive functioning", Exploring Child and Adolescent Executive Functioning Through Neuroimaging and Neuropsychological Approaches (Paced Presentation Symposium) Society for Research on Child Development, Montreal, CA. April 1, 2011.
46. "Underlying mechanisms of addiction", Science Lecture Series "How the Brain Works", Brookhaven Community College, Dallas, TX, November 18, 2011.
47. "The craving brain", Center for Vital Longevity Brown Bag, University of Texas at Dallas, Dallas, TX, February 28, 2011.
48. "Reward processes in addiction", Greater Dallas Human Brain Imaging Retreat, Dallas, TX. December, 2010.
49. "Negative symptoms breed true in schizophrenia", World Congress on Schizophrenia Research. Santa Fe, NM, April, 2008.

## Professional and University Citizenship

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### 1. Editorial Roles

- Guest Editor (2020, Clarifying the Complexities of Cannabis and Cognition), *Journal of the International Neuropsychological Society*
- Guest Editor (Cannabis), *Journal of Dual Diagnosis*
- Section Editor (Cannabis), *Current Addiction Reports*
- Board Editor, *Psychology of Addictive Behaviors*
- Board Editor, *The American Journal of Drug and Alcohol Abuse*
- Board Editor, *Current Addiction Reports*
- Review Editor, *Frontiers in Behavioral and Psychiatric Genetics*
- Guest Editor, (2014, Addiction Connectome), *The American Journal of Drug and Alcohol Abuse*

### 2. Ad-hoc Journal Reviewer

*Proceedings of the National Academy of Sciences, Journal of Neuroscience, Drug and Alcohol Dependence, Addiction, British Journal of Psychiatry, Neuropsychopharmacology, Psychophysiology, Frontiers in Neuroscience, American Journal of Clinical Nutrition, Psychology of Addictive Behaviors, Psychopharmacology, PLoS One, Biological Psychiatry, NeuroImage, Addiction Biology, Developmental Cognitive Neuroscience, Neuroscience, Progress in Neuropsychopharmacology & Biological Psychiatry*

### 2. Grant Reviewer

- July 2020, Center for Medicinal Cannabis Research (CMCR) Grants Program at the University of California, San Diego
- June 2014 – June 2018, Chartered Member of NIH NPAS Study Section (4 year term)
- December 2014, Pennsylvania Department of Health Performance Reviewer
- June 2014, NPAS Study Section, Ad hoc Reviewer
- April 2014, Ad hoc Grant reviewer, Medical Research Council, UK
- June 2012 – March 2014, Chartered Member of NIH Neuroscience and Ophthalmic Imaging Technology Study Section
- January 2014, NPAS Study Section – Ad hoc Reviewer
- November 2013, RO1 NIMH RFA Advancing Eating Disorders Research through Dimensional Studies of Biology and Behavior (RFA-MH-14-030) Reviewer
- June 2013, R21 NIDA I/START Reviewer
- June 2012, R21 NIDA I/START Reviewer
- March 2012, NIH NIDA RO1 PA11-260 Reviewer



- March 2012, NIH NIDA I/START Reviewer
- June, 2011, NIH Study Section Member RFA-AG-11-010: Basic Research on Self-Regulation (R21)
- June, 2011, NIH NIDA I/START Mail Reviewer
- August, 2011, The Netherlands Organisation for Health Research and Development (ZonMw) Reviewer, NIH R21
- 2010, NIH NIDA B/START
- 2010, NIH NIDA I/START
- 2009, NIH ARRA
- 2009 NIH NIDA I/START

### 3. Departmental / Institutional Committees

- 2007 – 2008 MRN Pilot Study Committee
- 2007 – 2008 MRN DOE Internal Awards Committee
- 2011 - 2012 BBS Colloquium Series Organizing Committee Co-Chair
- 2011 - BBS Faculty Search Committee Member
- 2010 – 2011 CBH PhD Student Recruitment Chair
- 2011 – 2012 BBS PhD Student Recruitment Co-Chair
- 2012 - BBS Faculty Search Committee
- 2012 – Academic Perspectives (Graduate Student Organization) Faculty Mentor
- 2013 – Committee on Cognitive Neuroscience Graduate Course Requirement
- 2013 – Conference Organizer, Reprogramming the Brain To Health
- 2013 - BBS Faculty Search Committee
- 2013 – BBS Academic Advisory Council Member
- 2013– 3rd Year Review Committee Member (Karen Rodrigue)
- 2013– Faculty Mentor (Heidi Kane)
- 2013– UTD Graduate Student Selection Committee
- 2013– CVL Post-doctoral Fellowship Award Committee
- 2013– BBS Scientific Advisory Board
- 2013– BBS Doctoral Student Admissions Committee
- 2016 – UTD Health and Wellness Committee
- 2016 – UTD Travel Award Committee
- 2016 – Center for Brain Health Faculty Search Committee Member
- 2016 – Center for Brain Health Medical Director Search Committee Member
- 2016 – UTD BBS Tenure and Promotion Review Committee (Kroener)
- 2016 – UTD BBS Tenure and Promotion Review Committee (Ploski)
- 2016 – UTD Commencement Committee
- 2016 – UTD BBS Faculty Search Committee Member (Systems Neuroscience)
- 2016 – UTD BBS Recruitment Committee
- 2016 – 2019 – BBS Academic Advisory Council Member
- 2019 – 2020 - Translational Biomedical Engineering & Sciences Building Stakeholder Workgroup
- 2020 – UTD Research Resurgence Committee

### 4. Mentorship / Supervision

- PhD Advisor – Dalton Edwards (current), Samuel DeWitt (2017), Kristen A. Ketcherside (2018)
- NRSA Co-Mentor – Derek Beaton (2013 – 2016)

- PhD Dissertation Committee - Sam Ehrenreich (2013), Derek Beaton (2017), Neena Rao (2015), Adam Teed (2017), Micaela Chen (2016), Allison Perez (2016), Jeremy Strain (2015), Yuefeng Huang (2020), Hye Bin Yoo (2018), Jeffrey Hullfish (2019)
- Master's Thesis Advisor – Angela Agee (2015), Kaitlyn Hunt (2015), Shadab Farouzan (2015), Seth Davis (2014), Brittney Kuhn (2013), Collette Bice (2014), T. Charles Dam (2014), Lauren Sanderson (2016), Amanda Weise (2017), Nicolas Muniz (2019), Hao Nguyen (2020), Joseph Vilches (2020), Carolyn Iduh (current), Caroline Culver (current), Harishree Karthik (2021), Eunsol Noh (2021)
- Undergraduate Research Award Advisor (2018) – Priya Kandru
- Undergraduate Research Award Advisor (2014) – Joel Vetimattam
- Undergraduate Honors Thesis Advisor (2018) – Alok Shah
- Green Fellows Mentor (UTD/UTSW Undergraduate Award) – Alok Shah
- Undergraduate Honors Thesis Advisor - Shrinath Kadamangudi (Buhrmester Summer Research Awardee) (2014)
- UTD Undergraduate Directed Research Advisor – Noura Alameddine, Jessica Baine, Jevin Jackson, Elizabeth Hilscher
- UNM Senior Honors Thesis Advisor - Daniel Crotwell (2010)
- PhD Dissertation Project Supervisor – Joseph Schacht (2010)
- CBH Postdoctoral and Doctoral Students Mentor (2011-2012)  
UNM Undergraduate Directed Research Advisor
- NIH Pre-doctoral Advisor
- NIH Summer IRTA Supervisor

#### 5. Miscellaneous Service

Book Reviewer, Cambridge Univ. Press (2020)  
 Member, ACNP Program Committee (2019 – Present)  
 Book Reviewer, Elsevier (2019)  
 Member, ACNP Under-represented Minority Committee (2018 – Present)  
 Chair, NIDA International Committee (2019 – Present)  
 Reviewer, Society for Research on Nicotine and Tobacco 13th Annual Meeting (2007)  
 Chapter Reviewer, Oxford University Press (2014)  
 Book Reviewer, Elsevier (2015)