



**HOFSTRA NORTHWELL  
SCHOOL of MEDICINE  
AT HOFSTRA UNIVERSITY<sup>SM</sup>**

**Curriculum Vitae**

**Date Prepared:** 4/25/17  
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**Place of Birth:** New Hyde Park, NY

**Educational Background**

**Education**

2003	PhD	Clinical and School Psychology	Hofstra University
1998	MA	Clinical and School	Hofstra University
1997	BA	Psychology	Binghamton University

**Predoctoral Training**

7/01-6/02	Internship	Clinical Psychology	LIJ-Zucker Hillside Hospital
7/00-6/01	Internship	School Psychology	West Islip High School

**Postdoctoral Training**

8/03-7/05	Postdoctoral Fellowship	Substance Abuse Research	Columbia University Medical Center & NYS Psychiatric Institute
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**Professional Experience**

**Faculty Academic Appointments**

**Current**

Application submitted 4/17	Associate Investigator	Center for Psychiatric Neuroscience	Feinstein Institute for Medical Research, Northwell Health
4/17-	Associate Professor	Departments of Psychiatry and Molecular Medicine	Northwell-Hofstra School of Medicine
7/16-4/17	Assistant Professor	Departments of Psychiatry and Molecular Medicine	Same as above

URL: [http://caspirnyc.org/people/#attachment\\_91](http://caspirnyc.org/people/#attachment_91)

**Past**

9/15-9/16	Assistant Professor (affiliated)	Department of Psychology	Stony Brook University
4/14-9/16	Research Assistant Professor	Department of Psychiatry	Stony Brook University School of Medicine
8/05-7/14	Assistant Professor of Clinical Psychology	Department of Psychiatry	Columbia University Medical Center, College of Physicians and Surgeons
7/11-7/14	Research Scientist V	Research Foundation for Mental Hygiene	NYS Psychiatric Institute
7/10-7/13	Herbert Irving Assistant Professor of Clinical Psychology	Department of Psychiatry	Columbia University Medical Center, College of Physicians and Surgeons
8/05-6/06	Research Scientist III	Research Foundation for Mental Hygiene	NYS Psychiatric Institute

**Appointments at Hospitals/ Affiliated Institutions**

**Current**

10/16-	Clinical Psychologist	Department of Psychiatry	LIJ Zucker-Hillside Hospital, Northwell Health
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URL: <https://www.northwell.edu/find-care/find-a-doctor/psychology/dr-nehal-pravin-vadhan-phd-11373677>

**Past**

7/14-9/16	Clinical Psychologist	Stony Brook Psychiatric Associates	Stony Brook University Hospital
9/12-6/14	Clinical Psychologist	Department of Psychiatry	Columbia-Presbyterian Hospital

7/01-6/03	Neurorehabilitation Assessment Specialist	Department of Psychiatric Rehabilitation	LIJ Zucker-Hillside Hospital
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**Major Administrative Leadership Positions**

2017-	Subsite Project Director, “Neural and Mobile Assessment of Behavior Change Among Problem Drinkers”	Center for Addiction Services and Personalized Interventions Research, Feinstein Institute for Medical Research and Department of Psychiatry, Northwell Health
2016-	Project Director, “Adaptive Interventions for Problem Drinkers” Study	Same as above
2010-2014	Associate Research Director, Novel Medications Center	Columbia University Medical Center, Department of Psychiatry, Substance Use Research Center
2008-2013	Director, Neuropsychology Research Laboratory	Same as above
2006-2013	Director, Psychological Evaluation	Same as above
2010-2012	Monthly Speaker Seminar Coordinator	Same as above

**Professional Societies**

2002-	American Psychological Association (APA) 2002.....	Student Affiliate
2003-	.....	Member
2005-	International Neuropsychological Society (INS) 2005.....	Associate Member
2005-	College on Problems of Drug Dependence (CPDD) 2012-2014.....	Associate Member Travel Awards Committee
2015-	Association for Psychological Science (APS)	Member
2016-	American Psychopathological Association (APPA)	Member
2016-	NY Academy of Sciences (NYAS)	Member
2016-	Association for Behavioral and Cognitive Therapies (ABCT) 2016.....	Member Member, Addictions SIG
2016-	International Cannabinoid Research Society (ICRS)	Member
2017-	Nassau County Psychological Association (NCPA)	Member
2017-	Suffolk County Psychological Association (SCPA)	Member

**Editorial Activities**

**Ad hoc reviewer**

*Addictive Behaviors; Addiction; Archives of General Psychiatry; Drug and Alcohol Dependence; Experimental and Clinical Psychopharmacology; Indian Journal of Medical Research; Journal of Clinical and Experimental Neuropsychology; Journal of Psychopharmacology; Journal of Psychosomatic Medicine; Molecular Psychiatry; Pharmacology, Biochemistry and Behavior; Psychiatry Research; Psychological Medicine; Substance Use and Misuse*

**Honors and Prizes**

2012	Top Poster Award Finalist (35/800 submissions)	Society of Biological Psychiatry	“Probabilistic category learning is associated with dopamine D2 receptor availability in the ventral striatum of cocaine users”
2010	Irving Scholars Award	Irving Institute for Clinical and Translational Research, Columbia University Medical Center	“Decision-making and reward sensitivity in cocaine abusers: relationship to cocaine-taking in the laboratory.”
2008	Poster of Special Merit and Interest (96/927 submissions)	International Neuropsychological Society	“Decision-making in cocaine abusers: contingencies and Gambling task performance”
2006	Young Investigator Travel Award to the American Psychological Association Convention	Clinical Trials Network, National Institute on Drug Abuse	
2006	Early Career Investigator Award	College on Problems of Drug Dependence	
2004	Director's Travel Award	College on Problems of Drug Dependence, National Institute on Drug Abuse	
2004-2009	Clinical Research Loan Repayment Program Awardee (+3 renewals)	National Institutes of Health	
2003	Ruth L. Kirchstein National Research Service Award	National Institute on Drug Abuse	Substance Abuse Research
2002	Dissertation Research Award	American Psychological Association	“Social self-efficacy in the schizophrenia spectrum”

## **Report of Funded and Unfunded Projects**

### **Funding Information:**

#### **Present Research Support**

- 2017-2020 “Human Neuropsychopharmacology Research”  
**Principal Investigator**  
 Feinstein Institute for Medical Research, Northwell Health (\$225,000)  
 Goals: To develop a human drug administration laboratory to assess the neuropsychiatric and medical effects of substances of abuse in psychiatric, neurologic and healthy populations.
- 2017-2020 “Neural and Mobile Assessment of Behavior Change Among Problem Drinkers”  
 Subaward  
 Subsite Project Director (PI: Jon Morgenstern, PhD; Primary Award PI: Kevin Ochsner, PhD)  
 National Institute of Alcohol Abuse and Alcoholism  
 R01AA023653  
 Goals: To measure neural and psychological mechanisms of behavior change in problem drinkers.

2015-2019 “Adaptive Interventions for Problem Drinkers”  
Project Director (PI: Jon Morgenstern, PhD)  
National Institute of Alcohol Abuse and Alcoholism  
R01AA022714  
Goals: To test the efficacy of brief behavioral interventions in a stepped care model for problem drinking.

**Present Clinical/Services Grant Support**

2015-2019 “Transforming Clinical Practice Initiative”  
Role: Psychological Training Development/Implementation (P.I. Ingoglia)  
Centers for Medicaid & Medicare Services/Innovation  
1L1CMS331465-01-00  
Goals: To improve identification, diagnosis and treatment of comorbid psychiatric and substance use disorders in mental health clinics across NY State.

**Completed Research Support**

2016-2020 “Advancing Personalized Antidepressant Treatment Using PET/MRI”  
Clinical Psychologist (PI: Christine DeLorenzo, PhD)  
National Institute of Mental Health  
R01AA022714  
Goals: To understand the neurobiological mechanisms of antidepressant treatment response.

2011-2014 “Substance Use Disorders & Decision Making: A Pilot Imaging Study of Parents & Children”  
Co-Investigator (PI: Christina Hoven, PhD)  
National Institute on Drug Abuse  
R21 DA031975-01  
Goals: To understand the familial transmission of cognitive control impairments in substance abusers and their children

2010-2013 “Decision-making and Reward Sensitivity in Cocaine Abusers: Relationship to Cocaine-Taking in the Laboratory”  
**Principal Investigator**  
Columbia University Medical Center, Irving Scholars Award (\$180,000)  
Goals: To investigate the cognitive-motivational mechanisms of repeated cocaine-taking behavior in cocaine abusers.

2010-2014 “Novel Medication Approaches for Substance Abuse”, National Institute on Drug Abuse  
Associate Research Director (PI: Herbert Kleber, PhD)  
National Institute on Drug Abuse  
P50 DA09236-10  
Goals: To develop new medications for treatment of substance use disorders.

2009-2011 “Acute Subjective and Neurocognitive Effects of Smoked Marijuana in Prodromal Psychosis”  
**Principal investigator**  
Brain and Behavior Research Foundation NARSAD Young Investigator Award (\$60,000)  
Goal: To investigate the direct effects of smoked marijuana in individuals at clinical high-risk for psychosis.

2006-2011 “Neuropsychological Effects of Binge-Smoked Cocaine”  
**Principal Investigator**  
 National Institute of Drug Abuse (\$920,370)  
 K01DA019933-02  
 Goal: To investigate the long-term and acute neuropsychological sequelae of cocaine abuse.

**Current Unfunded Projects:**

- 2018- “Marijuana Reinforcement and Reward Processing in Prodromal Psychosis”  
**Co-Principal Investigator**  
 National Institute on Drug Abuse  
 Previous Impact Score (1R21DA033481-01A1): 38; to be submitted as a new grant June 2017
- 2019- “Sensitivity to Reward or Loss and Voucher-Based Treatment for Cocaine Dependence”  
**Principal Investigator**  
 National Institute on Drug Abuse  
 To be submitted June 2017
- 2017- “Laboratory Assessment of Acute Alcohol Effects in Problem Drinkers: Association with Ecological Momentary Assessment and Treatment Outcome.” This project will assess subjective and physiological effects of alcohol in the laboratory in treatment-seeking problem drinkers, and assess their relationship to similar data collected via ecological assessment and to clinical outcome. This project is in the protocol preparation phase.
- 2017- “Reward Sensitivity, Decision-Making and Impulsivity in Problem Drinkers.” This project will assess cognitive-motivational biases in treatment-seeking problem drinkers and healthy controls. This project is in the proocol preparation phase.

**Report of Regional Teaching and Training**

**Teaching of Students in Courses:**

Fall 2015	<u>Professor</u> Psy 339, “Special Topics in Clinical Psychology: Marijuana Use and Abuse” Upper-level undergraduates (30)	Stony Brook University, Department of Psychology  1 3-hr session/week for 1 semester
1998 –1999	<u>Graduate TA</u> Research Seminar in Developmental Psychology Research Methods in Psychology Statistics in Psychological Research Undergraduates (20-30)	Hofstra University, Department of Psychology  1-2 1-hr lab session/week for 2 semesters

**Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs):**

2016	“Neuropsychological Testing” PGYIII Residents (10)	Stony Brook University, School of Medicine  3 1-hr sessions over 3 weeks
2016	“Motivational Interviewing”, “Substance Abuse Treatments: Therapeutic Techniques” PGYIII Residents (10), PGYII Residents (10)	Stony Brook University, School of Medicine  4 1-hr sessions over 4 weeks
2015	“Marijuana Use and the Risk for Psychiatric and Intellectual Disturbance” Child Psychiatry Fellows (5)	Stony Brook University, School of Medicine  1 1-hr session over 1 week

2014	“Verbal Learning and Mood Symptoms during Stony Brook University, School of Medicine Marijuana Abstinence” MD-PhD students (20)	1 1-hr session over 1 week
2013	Faculty Discussant, “Cannabis and Psychosis”	Columbia University Medical Center, College of Physicians and Surgeons, PGYII
2005-2012	Co-instructor Nature and Efficacy of Alcohol Anonymous Motivational Interviewing and Substance Abuse Detection for Primary Care Physicians 1 <sup>st</sup> and 2 <sup>nd</sup> year medical students (15-20)	Columbia University Medical Center, College of Physicians and Surgeons 2 1-hr sessions over 1 year
2005	Co-instructor, K-Award Grant Preparation Seminar  2 <sup>nd</sup> year Postdoctoral Psychiatric Research Fellows (10-15)	Columbia University Medical Center, College of Physicians and Surgeons & NYS Psychiatric Institute

**Clinical Supervisory and Training Responsibilities:**

2016	Director, Substance Abuse Practicum  Psychology Interns, externs and graduate students	Stony Brook University, Department of Psychology, Krasner Psychological Center  1 hr/week for 1 year
2008-2013	Clinical Psychology Internship Supervisor (Cognitive-Behavioral Therapy)  Clinical Psychology Interns	Columbia University Medical Center/ NYS Psychiatric Institute / NYS Presbyterian Hospital  1 hr/week for 5 years

**Laboratory and Other Research Supervisory and Training Responsibilities:**

2014-2016	Research Clinical Supervisor  Psychology Graduate Students	Stony Brook University, Department of Psychiatry, Center for Understanding Biology Through Imaging Technology  1 hr/week for 2 years
2006-2013	Research Clinical Supervisor  Faculty, Clinical Trainees, Nurses, Psychology Graduate Students	Columbia University Medical Center & NYS Psychiatric Institute, Division on Substance Abuse  1 hr/week for 7 years

**Formally Supervised Trainees and Faculty:**

2006-2014	Research Supervisor to Elysia Benedict, PhD (Clinical Psychologist)  Accomplishments: Completed Masters and Doctoral theses (Long Island University, Department of Psychology, 2011, 2015); received NIDA/NIAAA Young Investigator Travel Award to the American Psychological Association (APA) Convention (2011).
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**Report of Regional Invited Teaching and Presentations:**

**Grand Rounds**

2015	“Acute Marijuana Effects in Prodromal Psychosis: A Probe into the Marijuana-Schizophrenia Link” Stony Brook University, Department of Psychiatry
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St. John's Hospital, Department of Psychiatry

### Seminars

- 2014 "Motivational Interviewing, Theory and Clinical Principles"  
Stony Brook University, Department of Psychology PhD students and faculty
- 2012-2014 "Acute Marijuana Effects in Prodromal Psychosis: A Probe into the Marijuana-Schizophrenia Link"  
Harvard, Brown, Johns Hopkins Universities, Departments of Psychiatry
- 2005 "Marijuana use and Decision-making"  
Pilgrim Psychiatric Center

### Report of Clinical Activities and Innovations:

#### Current Licensure and Certification:

- 2006 NYS Psychology license (active)

#### Practice Activities:

- |           |   |   |             |
|-----------|---|---|-------------|
| 2017-     | Ambulatory cognitive-behavioral therapy                                   | Northwell Health, Faculty Practice  | 5 hrs/week  |
| 2014-2016 | Ambulatory cognitive-behavioral therapy and neuropsychological evaluation | Stony Brook Medicine, Psychiatric Associates  | 20 hrs/week |
| 2006-2014 | Ambulatory cognitive-behavioral therapy and neuropsychological evaluation | Private Practice<br>1160 5th Ave, suite 112<br>New York, NY 10029                         | 5 hrs/week  |
| 2003-2006 | Ambulatory neuropsychological evaluation                                  | Comprehensive Neuropsychological Support<br>1160 5th Ave, suite 112<br>New York, NY 10029 | 5 hrs/week  |

### Report of Scholarship: (\*student/trainee publication)

#### Peer-Reviewed Publications in Print or Other Media

#### Research Investigations

1. van de Giessen, E., Weinstein, J., Cassidy, C., Dong, Z., Ghazzoui, R., Kegels, L., Xu, X., Haney, M., **Vadhan, N.P.**, Slifstein, M., & Abi-Dargham, A. (2016). Blunted striatal dopamine release in the striatum of cannabis dependent participants. *Molecular Psychiatry*, 22, 68-75.  
<http://www.nature.com/mp/journal/vaop/ncurrent/pdf/mp201621a.pdf>
2. Jones, J.D., **Vadhan, N.P.**, Luba, R.R., & Comer, S.D. (2016). The effects of heroin administration and drug cues on impulsivity. *Journal of Clinical and Experimental Neuropsychology*, 38(6), 709-720.  
<http://www.tandfonline.com/doi/full/10.1080/13803395.2016.1156652>
3. Bedi, G., Shiffrin, L., **Vadhan, N.P.**, Nunes, E.V., Foltin, R.W., & Bisaga A. (2016). Effects of Levodopa Carbidopa-Entacapone and smoked cocaine on facial affect recognition in cocaine smokers. *Journal of Psychopharmacology*, 30(4), 370-377.  
<http://jop.sagepub.com/content/30/4/370>



4. Carpenter, K.C., Bedi, G., & **Vadhan, N.P.** Understanding and shifting drug-related decisions: contributions of automatic decision-making processes. (2015). *Current Psychiatry Reports*, 17, 65, 1-11. <http://link.springer.com/article/10.1007%2Fs11920-015-0607-8>
5. Foltin, R.W., Haney, M., Rubin, E., Reed, S.C., **Vadhan, N.P.**, Balter, R., & Evans, S.M. Development of translational preclinical models in substance abuse: effects of cocaine administration on cocaine choice in humans and non-human primates. (2015) *Pharmacology, Biochemistry & Behavior*, 134, 12–21. <http://www.sciencedirect.com/science/article/pii/S0091305715001306>
6. Gill, K.E., Poe, L., Azimov, N., Ben-David, S., **Vadhan, N.P.**, Girgis, R., Moore H., Cressman, V., & Corcoran, C. Reasons for cannabis use among youths at ultra high risk for psychosis. (2015). *Early Intervention in Psychiatry*, 9(3), 207-210. <http://www.ncbi.nlm.nih.gov/pubmed/24274357>
7. \*Benedict, E.S., Gorman, A., van Gorp, W.G., Foltin, R.W., & **Vadhan, N.P.** (2014). Self-reported attention and mood symptoms in cocaine abusers: relationship to neurocognitive performance. *Psychiatry Research*, 219(3), 598-603. <http://www.psychjournal.com/article/S0165-1781%2814%262900492-2/abstract>
8. **Vadhan, N.P.**, Myers, C.E., Benedict, E.S., Rubin, E.R., Foltin, R.W., & Gluck, M.A. (2014). A decrement in probabilistic category learning in cocaine users after controlling for marijuana and alcohol use. *Experimental and Clinical Psychopharmacology*, 22(1), 65-74. <http://psycnet.apa.org/psycinfo/2013-38542-001/>
9. \*Roebke, P.V., **Vadhan, N.P.**, Brooks, D.J., & Levin, F.R. (2014). Verbal learning in marijuana users seeking treatment: a comparison between depressed and non-depressed samples. *American Journal of Drug and Alcohol Abuse*, 40(4), 274-279. <http://informahealthcare.com/doi/abs/10.3109/00952990.2013.875551>
10. Carpenter, K.M., Martinez, D., **Vadhan, N.P.**, Barnes-Holmes, D., & Nunes, E.V. (2012). Measures of attentional bias and relational responding are associated with behavioral treatment outcome for cocaine dependence. *American Journal of Drug and Alcohol Abuse*, 38(2), 146-54. <http://informahealthcare.com/doi/full/10.3109/00952990.2011.643986>
11. Kalapatapu, R.K., **Vadhan, N.P.**, Rubin, E., Bedi, G., Cheng, W.Y., Sullivan, M.A., & Foltin, R.W. (2011). A pilot study of neurocognitive function in older and younger cocaine abusers and controls. *The American Journal on Addictions*, 20(3), 228-239. <http://onlinelibrary.wiley.com/doi/10.1111/j.1521-0391.2011.00128.x/full>
12. **Vadhan, N.P.**, Serper, M.R., & Haney, M.H. (2009). Effects of  $\Delta^9$ -THC on working memory: Implications for schizophrenia? *Primary Psychiatry*, 16, 51-59. <https://www.ncbi.nlm.nih.gov/pubmed/20351792>
13. **Vadhan, N.P.**, Hart, C.L., Haney, M., van Gorp, W.G., & Foltin, R.W. (2009). Decision-making in long-term cocaine users: Effects of a cash monetary contingency on Gambling task performance. *Drug and Alcohol Dependence*, 102(1-3), 95-101. <dx.doi.org/10.1016/j.drugalcdep.2009.02.003>
14. Reed, S.C., Haney, M., Evans, S.M., **Vadhan, N.P.**, Rubin E., & Foltin R.W. (2009). Cardiovascular and subjective effects of repeated smoked cocaine administration in experienced cocaine users. *Drug and Alcohol Dependence*, 102(1-3), 102-107. <dx.doi.org/10.1016/j.drugalcdep.2009.02.004>
15. **Vadhan, N.P.**, Myers, C.E., Rubin, E.R., Shohamy, D., Foltin, R.W., & Gluck, M.A. (2008). Stimulus-response learning in long-term cocaine users: Acquired equivalence and probabilistic category learning. *Drug and Alcohol Dependence*, 93, 155-162. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2247471/>
16. **Vadhan, N.P.**, Carpenter, K.M., Copersino, M.L., Hart, C.L., Foltin, R.W., & Nunes, E.V. (2007). Attentional bias towards cocaine-related stimuli: relationship to treatment-

seeking for cocaine dependence. *American Journal of Drug and Alcohol Abuse*, 33, 727-736. <https://www.ncbi.nlm.nih.gov/pubmed/17891665>

17. **Vadhan, N.P.**, Hart, C.L., van Gorp, W.G., Gunderson, E.W., Haney, M., & Foltin, R.W. (2007). Acute effects of smoked marijuana on decision-making, as assessed by a modified Gambling task, in experienced marijuana users. *Journal of Clinical and Experimental Neuropsychology*, 29, 357-364. <https://www.ncbi.nlm.nih.gov/pubmed/17497559>
18. **Vadhan, N.P.**, Hart, C.L., Roe, B., Colley, J., Haney, M., & Foltin, R.W. (2006). Substance use and psychosocial outcomes following participation in residential laboratory studies of marijuana, methamphetamine and zolpidem. *American Journal of Drug and Alcohol Abuse*, 32, 589-597. <https://www.ncbi.nlm.nih.gov/pubmed/17127547>
19. Copersino, M.L., Serper, M.R., **Vadhan, N.P.**, Goldberg, B.R., Richarme, D., Chou, J.C.-Y., Stitzer, M., & Cancro, R. (2004). Cocaine craving and attentional bias in cocaine dependent schizophrenic patients. *Psychiatry Research*, 128, 209-218. <https://www.ncbi.nlm.nih.gov/pubmed/15541777>
20. Harvey, P.D., Serper, M.R., White, L., Parrella, M.J., McGurk, S.R., Moriarty, P.J., Bowie, C., **Vadhan, N.**, Friedman, J., & Davis, K.L. (2001). The convergence of neuropsychological testing and clinical ratings of cognitive impairment in patients with schizophrenia. *Comprehensive Psychiatry*, 42, 306-313. <https://www.ncbi.nlm.nih.gov/pubmed/11458305>
21. **Vadhan, N.P.**, Serper, M.R., Harvey, P., Chou, J.C.-Y., & Cancro, R. (2001). Convergent validity and neuropsychological correlates of the schedule for the assessment of negative symptoms (SANS) attention subscale. *Journal of Nervous and Mental Disease*, 189, 637-641. <https://www.ncbi.nlm.nih.gov/pubmed/11580009>
22. Serper, M.R., Copersino, M.L., Richarme, D., **Vadhan, N.**, & Cancro, R. (2000). Neurocognitive functioning in recently abstinent cocaine abusing schizophrenic patients. *Journal of Substance Abuse*, 11, 205-213. <https://www.ncbi.nlm.nih.gov/pubmed/10989779>

#### Other peer-reviewed publications

23. **Vadhan, N.P.**, van Gorp, W.G., & Levin, F.R. (2011). Specificity of verbal learning impairment and recovery in a marijuana-dependent male: the effects of sustained marijuana abstinence. *Cognitive Neuropsychiatry*, 16(2), 158-173. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3154789/>

#### Non-peer reviewed Scientific or Medical Publications

##### Reviews, Chapters Monographs & Editorials

1. Wasserstein, J., **Vadhan, N.P.**, Barbosa, K., & Stefanatos, G.A. (2008). Outcomes in probable NLD adults: a naturalistic study. In L.E. Wolf, J. Wasserstein & H.E. Schreiber (Eds.), *Adult Learning Disorders: Contemporary Issues*, (pp. 455-486). New York, NY: Taylor & Francis Ltd. <https://www.routledge.com/Adult-Learning-Disorders-Contemporary-Issues/Wolf-Schreiber-Wasserstein/p/book/9781138006119>
2. **Vadhan, N.P.** *Stimulant withdrawal*. Wenzel, A. (Editor-in-Chief). (In press). Encyclopedia of Abnormal and Clinical Psychology, Vols 1-7. Thousand Oaks, CA: SAGE Publications.
3. **Vadhan, N.P.**, and Copersino, M.L. *Stimulant use disorder*. Wenzel, A. (Editor-in-Chief). Encyclopedia of Abnormal and Clinical Psychology, Vols 1-7. Thousand Oaks, CA: SAGE Publications.

#### Scientific Articles Under Revision/ Submitted/ in Preparation

1. **Vadhan, N.P.**, Corcoran, C.M., Bedi, G., Keilp, J.G., & Haney, M. Acute effects of smoked marijuana in marijuana smokers at clinical high-risk for psychosis: a preliminary study. Under revision at *Psychiatry Research*.
2. **Vadhan, N.P.**, Nunes, E.V., Myers, C.E., Carpenter, K.M., Rubin, E., Foltin, R.W., Gluck, M.A., & Martinez, D. Probabilistic category learning is associated with dopamine D2 receptor availability in the ventral striatum of cocaine users. In prep.
3. **Vadhan, N.P.**, Evans, S.M., Myers, C.E., Gluck, M.A., & Reed, S.C. Oral d-amphetamine increases sensitivity to negative consequences on an associative learning task in cocaine users. In prep.
4. **Vadhan, N.P.**, Constantino E., Perlman G., Kotov R., & Bromet E.J. Contributions of alcohol use disorders to the 10-year course of psychosis following first hospitalization. In prep.
5. **Vadhan, N.P.**, Myers, C.E., Benedict, E.S., Rubin, E.R., Foltin, R.W., & Gluck, M.A. Associative, decision-making and declarative learning in short-term cocaine users. In prep.
6. Bedi, G., Foltin, R.W., **Vadhan, N.P.**, Haney, M., Biviano, A.B., Nirenberg, M.J., Nunes, E.V. & Bisaga, A. Effect of a combination of levodopa, carbidopa, and entacapone on the subjective and cardiovascular effects of smoked cocaine in humans. In prep.
7. **Vadhan, N.P.**, Bedi, G. Nunes, E.V., Foltin, R.W. & Bisaga, A. Effects of smoked cocaine and levodopa-carbidopa-entacapone administration on cocaine-related attentional bias in cocaine abusers. In prep.
8. **Vadhan N.P.**, Braunstein L.M., Levak, S., Kuerbis, A., & Morgenstern, J. Drinking behavior and implicit approach /avoidance towards alcohol cues during motivational treatment. In prep.

## Theses

### PhD

- Vadhan, N.P.** (2004). An attempted manipulation of social self-efficacy in patients with schizophrenia and schizoaffective disorder. *Dissertation Abstracts International*, 64, 3545.

### Masters

- Vadhan, N.P.**, Serper, M.R., Harvey, P., Chou, J.C.-Y., & Cancro, R. (2001). Convergent validity and neuropsychological correlates of the schedule for the assessment of negative symptoms (SANS) attention subscale. *Journal of Nervous and Mental Disease*, 189, 637-641. [http://www.ncbi.nlm.nih.gov/pubmed/11580009?ordinalpos=8&itool=EntrezSystem2\\_PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_DefaultReportPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/pubmed/11580009?ordinalpos=8&itool=EntrezSystem2_PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)

## Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings

### Published Abstracts

1. **Vadhan N.P.**, Braunstein L.M., Levak, S., Kuerbis., A., & Morgenstern, J. Implicit approach and avoidance to alcohol cues: effects of clinical engagement and relationship to trait and state clinical characteristics. Poster presented, American Psychopathological Association; *Comprehensive Psychiatry* (pending).
2. **Vadhan, N.P.**, Corcoran, C.M., Bedi, G., Keilp, J.G., & Haney, M. (2016). Neurocognitive effects of smoked marijuana in individuals at clinical high-risk for psychosis. Poster, International Neuropsychological Society; *Journal of the International Neuropsychological Society* (pending).

3. **Vadhan, N.P.**, Constantino E., Perlman G., Kotov R., & Bromet E.J. (2015). Contributions of alcohol use disorders to the 10-year course of psychosis following first hospitalization. Poster, American Psychopathological Association; *Comprehensive Psychiatry* (pending).
4. **Vadhan, N.P.**, Bedi, G., Corcoran, C.M., & Haney, M. (2014). Exploratory analysis of the relationship between anhedonia and the acute response to smoked marijuana in prodromal psychosis. Poster, Society for Biological Psychiatry; *Biological Psychiatry* (pending).
5. \*Gill, K., Corcoran, C.M., Payne, E., Nguyen, K., Wu, O.Q., Bedi, G., Brucato, G., Girgis, R., Haney, M., & **Vadhan, N.P.** (2014) Laboratory exposure to smoked marijuana in individuals at clinical high risk for psychosis: a report on safety. Poster, Society for Biological Psychiatry; *Biological Psychiatry* (pending).
6. **Vadhan, N.P.**, Corcoran, C.M., Bedi, G.I., Lieberman, J.A., & Haney, M. (2013). Marijuana smokers at clinical high-risk for schizophrenia exhibit an enhanced subjective, behavioral and physiological response to smoked marijuana. Poster, American Psychopathological Association; *Comprehensive Psychiatry*, 54(8), e37.  
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9. **Vadhan, N.P.**, Nunes, E.V., Myers, C.E., Carpenter, K.M., Rubin, E., Foltin, R.W., Gluck, M.A., & Martinez, D. (2012). Probabilistic category learning is associated with dopamine D2 receptor availability in the ventral striatum of cocaine users. Poster, Society for Biological Psychiatry ("Top Poster" finalist); *Biological Psychiatry*, 71 (S), 321.  
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10. **Vadhan, N.P.**, Hart, C.L., Haney, M., van Gorp, W.G., & Foltin, R.W. (2008). Decision-making in cocaine abusers: contingencies and Gambling task performance. Poster presented at the annual meeting of the International Neuropsychological Society ("Poster of Special Merit and Interest"), and published in the *Journal of the International Neuropsychological Society*, 14 (S1),105.
11. **Vadhan, N.P.**, Hart, C.L., van Gorp, W.G., Haney, M., & Foltin, R.W. (2006). Does smoked marijuana disrupt decision-making in experienced users? *Journal of the International Neuropsychological Society*, 12 (S1), 213.  
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12. **Vadhan, N.P.**, Carpenter, K.L., Hart, C.L., Foltin, R.W., & Nunes, E.V. (2006). Attentional bias towards cocaine-related verbal stimuli in cocaine-dependent individuals: a comparison of treatment-seekers and treatment-nonseekers. *Journal of the International Neuropsychological Society*, 12 (S1), 210.  
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13. **Vadhan, N.P.** (2004). An attempted manipulation of social self-efficacy in patients with schizophrenia and schizoaffective disorder. *Dissertation Abstracts International*, 64, 3545.

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#### Talks/Symposia

1. **Vadhan, N.P.**, Gruber S., Metrik J., & Squeglia, L. (2017). Understanding and managing distress with cannabis: neuropsychiatric comorbidity and targets for treatment. *Symposium* accepted, Association for Psychological Science. (Co-chairs: **N. Vadhan** and S. Gruber)
2. **Vadhan, N.P.**, Corcoran, C.M., Bedi, G., & Haney, M. (2017). Potential mechanisms of differential response to smoked cannabis in individuals at clinical high-risk for psychosis. *Oral Symposium presentation* accepted, Association for Psychological Science.
3. **Vadhan, N.P.**, Jones, J.D., Mogali, S., Myers, C.M. & Comer, S.D. (2017). Reward/punishment learning and the subjective effects of Oxycodone in recreational opioid users. *Oral Communication accepted*, College on Problems of Drug Dependence.
4. **Vadhan, N.P.**, Corcoran, C.M., Bedi, G., Lieberman, J.G., & Haney, M. (2014). Marijuana smokers at clinical high-risk for psychosis exhibit an increased psychotic-like response to smoked marijuana. *Scientific and Clinical Report*, American Psychiatric Association.
5. **Vadhan, N.P.**, Keilp, J.G., Reed, S.C., Haney, M., & Foltin, R.W. (2010). Construct validity and test-retest reliability of computerized cognitive performance: implications for measurement of acute drug effects. *Oral Communication*, College on Problems of Drug Dependence.
6. **Vadhan, N.P.**, Carpenter, K.M., Nunes, E.V., Martinez, D., & Foltin, R.W. (2009). Effects of tangible consequences on decision-making: relationship to voucher-based treatment for cocaine dependence. *Oral Presentation*, American Psychological Association.

#### Posters

1. **Vadhan, N.P.**, Corcoran, C.M., Bedi, G., Keilp, J.G., & Haney, M. (2016). Marijuana use in prodromal psychosis: self-medication of anhedonia? NY Academy of Sciences "The Addicted Brain and New Treatment Frontiers" Conference
2. **Vadhan, N.P.**, Corcoran, C.M., Bedi, G., Keilp, J.G., Lieberman, J.A., & Haney, M. (2016). Acute marijuana effects in prodromal psychosis: probing the marijuana-schizophrenia link? The NIH Marijuana and Cannabinoids Neuroscience Research Summit.
3. **Vadhan, N.P.**, Nunes, C.E., Carpenter, K.M., Rubin, E., & Martinez, D. (2015). Sensitivity to monetary incentive on a decision-making task is differentially associated with dopamine signaling in the striatal subregions of cocaine abusers. Association for Psychological Science.
4. **Vadhan, N.P.**, Evans, S.M., Myers, C.E., Gluck, M.A., & Reed, S.C. (2013). Oral d-amphetamine increases sensitivity to negative consequences on an associative learning task in cocaine users. College on Problems of Drug Dependence.
5. \*Onyemekwu, C., Wu, O.Q., Glass, A., **Vadhan, N.P.**, Nunes, E.V., & Raby, W.N. (2012). Association between stress sensitivity and cognitive tasks of attention in cocaine treatment seekers. College on Problems of Drug Dependence.
6. **Vadhan, N.P.**, Bedi, G. Nunes, E.V., Foltin, R.W. & Bisaga, A. (2012). Effects of smoked cocaine and levodopa-carbidopa-entacapone administration on cocaine-related attentional bias in cocaine abusers. College on Problems of Drug Dependence.
7. Bedi, G., **Vadhan, N.P.**, Nunes, E.V., Foltin, R.W. & Bisaga, A. (2012). Facial emotion recognition after smoked cocaine and levodopa-carbidopa-entacapone administration in regular cocaine smokers. Society for Affective Neuroscience.

8. Bedi, G., **Vadhan, N.P.**, Nunes, E.V., Foltin, R.W. & Bisaga, A. (2012). Effects of levodopa-carbidopa-entacapone on neural responses to cocaine-related stimuli and non-drug rewards in regular cocaine smokers. American College of Neuropsychopharmacology.
9. \*Roebke, P.V., **Vadhan, N.P.**, Brooks, D.J., & Levin, F.R. (2011). Marijuana use patterns, but not depressive symptoms, are associated with verbal learning and memory function in marijuana-dependent individuals in treatment. College on Problems of Drug Dependence.
10. **Vadhan, N.P.**, Farris, A., Myers, C.E., Reed, S.C., Foltin, R.W., & Gluck, M.R. (2011). Sex differences and similarities in associative reward learning in cocaine users. Association for Psychological Science.
11. \*Benedict, E.S., **Vadhan, N.P.**, Reed, S.C., Raby, W.R., Levin, F.R., & Foltin, R.W. (2011). Decision making in cocaine abusers: relationship to treatment-seeking for cocaine dependence. American Psychological Association.
12. **Vadhan, N.P.**, Myers, C.E., Rubin, E., Foltin, R.W. & Gluck, M.R. (2011). Equivalence and probabilistic category learning in long-term and short-term cocaine users. American Psychological Association.
13. Vosburg, S.K., Hart, C.L., Haney, M., Rubin, E., **Vadhan, N.P.**, & Foltin, R.W. (2008). Laboratory model of a cocaine binge. College on Problems of Drug Dependence.
14. **Vadhan, N.P.**, Hart, C.L., Haney, M., van Gorp, W.G., & Foltin, R.W. (2008). Decision-making in cocaine abusers: contingencies and gambling task performance. College on Problems of Drug Dependence.
15. \*Benedict, E.S., Bagenstose, L., **Vadhan, N.P.**, Martinez, D., Foltin, R.W. & van Gorp, W.G. (2007). Treatment-seeking for cocaine abuse: relationship to executive functioning. American Psychological Association.
16. **Vadhan, N.P.**, Hart, C.L., Roe, B., Colley, J., Haney, M., & Foltin, R.W. (2006). Psychosocial outcomes following participation in residential behavioral pharmacology laboratory studies. College on Problems of Drug Dependence.
17. **Vadhan, N.P.**, Myers, C.E., Rubin, E., Shohamy, D., Foltin, R.W., & Gluck, M.A. (2006). Equivalence learning in active cocaine users. College on Problems of Drug Dependence.
18. **Vadhan, N.P.** & Serper, M.R. (2003). Social self-efficacy and social withdrawal in schizophrenia-spectrum disorders. Association for Behavioral and Cognitive Therapy.
19. **Vadhan, N.P.**, Goldberg, B.R., Elliot, J.L., & Serper, M.R. (2000). Validity of cognitive symptom based ratings. Society for Research in Psychopathology.
20. Goldberg, B.R., Levine, E., **Vadhan, N.P.**, Fisch, E., & Serper, M.R. (2000). Homelessness as a predictor of cognitive abilities, clinical symptoms and treatment of psychiatric patients.

#### Abstracts Submitted

1. **Vadhan, N.P.**, Bedi, G., Meyers, C.E., & Haney, M. (2017). Smoked marijuana alters reward sensitivity on an associative learning task in marijuana users. International Cannabinoid Research Society.
2. **Vadhan N.P.**, Braunstein L.M., Levak, S., Kuerbis, A., & Morgenstern, J. (2017). Drinking behavior and implicit approach /avoidance towards alcohol cues during motivational treatment. Association for Cognitive and Behavioral Therapies.

#### Personal Narrative

Throughout my career, I have focused on the investigation (50%), treatment (20%) and teaching of (15%) the neuropsychiatric effects and antecedents of substance abuse, and have also been involved in administration (15%).



My **Area of Excellence** is **Investigation**, and I have made several important scientific contributions to the substance use field. This includes the exploration of cognitive biases in substance abusers in the context of motivation and brain dopamine (Vadhan et al., 2008; 2009, 2014, in prep). This research was honored at several conferences, and a previous R34 grant submission was scored well and will be revised for a new submission in June 2017. I have also examined the psychological sequelae of substance use in individuals with mental illness, particularly psychosis (e.g., Vadhan et al., 2000, 2009). Most recently, my controlled laboratory study (Vadhan et al., under revision) found that the psychotic-like response to marijuana was dependent on the preexisting clinical risk for psychosis. A follow up R01 submission in collaboration with colleagues from Columbia and Stony Brook Universities is now in preparation. Progress continues, as evidenced by the recent acceptance of 3 abstracts for presentation at upcoming conferences, 1 article under revision and 2 more in preparation.

Regarding **Teaching and Education**, I recently developed (from scratch) and taught a semester-long undergraduate course at Stony Brook entitled “Special Topics in Clinical Psychology: Marijuana Use and Abuse”, to good student reviews and colleague feedback. I also taught numerous seminars and workshops to medical students and residents. Throughout my career, I have provided significant research and career mentorship to trainees at all levels, with students achieving first-author publications and acceptances to graduate/medical school at high rates. Regarding **Clinical Service**, I initiated and ran novel clinical protocols for behavioral substance abuse treatment and neuropsychological evaluation for psychiatric outpatients in the Stony Brook Psychiatry Outpatient Department. These significantly expanded the ability of the department to accept and treat patients. I was also the senior clinical psychologist on 2 R01-funded neuroimaging studies of treatment response in mood disorders, supervising a team of junior clinicians and conducting patient evaluations. My major **Administrative** roles have been as Laboratory or Project Director for the research.

This work continues at Hofstra-Northwell, with my role as Project Director for the “Adaptions Interventions for Problem Drinkers” study and as PI of the Human Neuropsychopharmacology Laboratory at, and funded by, the Feinstein Institute (final lab plans to be approved in April). I will also be an expert consultant on Northwell’s new application for a medical marijuana license. Thus, my career has been and continues to be primarily devoted to addressing substance abuse and comorbidity.