

David S Fink, PhD, MPH, MPhil

CONTACT INFORMATION

Department of Epidemiology
New York State Psychiatric Institute
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DATE OF PREPARATION

May 12, 2021

PERSONAL DATA

Birthdate: January 15, 1982
Birthplace: California, USA
Citizenship: USA

ACADEMIC TRAINING

Columbia University, Mailman School of Public Health Doctor of Philosophy (Ph.D.) Epidemiology Dissertation sponsor: Deborah Hasin <i>Dissertation title: "Effect modification by socioeconomic conditions on the effects of prescription opioid supply on drug poisoning deaths in the United States"</i>	2013-2020 New York, NY, USA
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Columbia University, Mailman School of Public Health Master of Philosophy (M.Phil.) Epidemiology	2013- 2016 New York, NY, USA
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San Diego State University, School of Public Health Master of Public Health (M.P.H.) Epidemiology	2007-2009 San Diego, CA, USA
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San Diego State University Bachelor of Arts, <i>with Distinction</i> (B.A.) Anthropology, Religious Studies Minor Cum Laude	2000-2004 San Diego, CA, USA
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POSTDOCTORAL TRAINING

Postdoctoral Research Fellow
Department of Epidemiology
New York State Psychiatric Institute
* Advisor: Dr. Deborah Hasin

October 2020-present
New York, NY

PROFESSIONAL ORGANIZATIONS AND SOCIETIES

American Public Health Association (2007-present)
Society for Epidemiologic Research (2013-present)
* President-Elect, President, Past-President, Student and Postdoc Committee, 2015-2018
* Publications Committee, 2015-2016
* Communications Committee, 2015-2016
* Membership Committee, 2015-2019
* Executive Board, 2016-2017
* Awards Committee, 2016-2019
* Diversity and Inclusion Working Group and Committee, 2016-present
International Society for Traumatic Stress Studies (2014-present)
* Member, Website Redesign Initiative, 2014
College on Problems of Drug Dependence, Member-in-training (2016-present)
* Member-in-Training Committee (MITco), 2017-2020
* Leader, MITco Public Relations Sub-Committee, 2018-2019
Association for Studies in Innovation Science and Technology (2016-present)
World Psychiatric Association, Member-in-training (2017-present)
American Psychopathological Association, Member-in-training (2019-present)
* Student leadership award, 2020

SELECTED HONORS AND AWARDS

Phi Eta Sigma, National Collegiate Honors Society, 2001
Golden Key, National Collegiate Honors Society, 2001
Phi Beta Kappa (Junior Electee), 2003
San Diego State University Deans List, 2003-2004
Phi Kappa Phi, National Collegiate Honors Society, 2008
Columbia University; Open Scholarship, 2013-2014
TYLENOL® Future Care Scholarship, 2015
* One of 40 students nationwide pursuing careers in healthcare, displaying academic excellence, exemplary leadership, community involvement, and dedication to a career of caring for others
Sentinel of Science Award Recipient. Awarded by Publons to the top 10% of researchers contributing to the peer review of the field of medicine, 2016
Trainee, Inequality by the Numbers Workshop, Center on Socio-Economic Inequality, Graduate Center of the City University of New York (CUNY), 2018
* One of 50 researchers admitted to an intensive, 5-day training on research on socio-economic inequalities.
Article of the year, American Journal of Epidemiology, 2017

William Haddon Jr. Award, Columbia University, Mailman School of Public Health, 2018

- * Awarded to a doctoral student at Columbia University for outstanding contribution to injury epidemiology and prevention through their research

John T. and Patricia A. O'Neill Addiction Science Education Award, Research Society on Alcoholism, 2018

- * Awarded to a medical, dental, postdoctoral or graduate student who has demonstrated excellence in educating the public, health professionals, treatment professionals, and other non-scientists about the latest addiction science research

Student Leadership Award, American Psychopathological Association, 2020

- * Awarded to recognize a student member who demonstrates leadership, service, and commitment to make a substantial contribution to the society. Awarded for developing, organizing, and moderating the inaugural APPA webinar in November 2019.

Student Merit Travel Award, American Psychopathological Association, 2021

Anna C. Gelman Award for Excellence in Epidemiology, Columbia University, 2021

- * Awarded to graduating doctoral student in the Department of Epidemiology for high academic distinction and potential for significant contributions to the field of public health.

CPDD Early Career Investigator Awardee, College on Problems of Drug Dependence, 2021

FELLOWSHIP AND GRANT SUPPORT

PAST

“Substance Abuse Pre-doctoral Training Program, Columbia University” (PI: Hasin)

Role on Project: Pre-doctoral fellow

Dates of funding: August 2014 — August 2019

Funder: National Institute of Drug Abuse (NIDA) 5T32DA031099-03

Description: Provides training in substance use epidemiology as well as support for tuition, living expenses, and research activities.

TEACHING EXPERIENCE AND RESPONSIBILITIES

Role: Instructor

- SST 216: *Introduction to Epidemiology*, Division of Social Studies, Bard Prison Initiative, Bard College, Annandale-on-Hudson, NY. Fall 2017.
- BIO 144: *Introduction to Biostatistics*, Biology Program, Bard Prison Initiative, Bard College, Annandale-on-Hudson, NY. Spring 2018.

Role: Teaching assistant

- EPID P8100: *Applied Regression I* (Juan Lin, Adjunct & Naitee Ting, Adjunct), Department of Epidemiology, Columbia University, Mailman School of Public Health, New York, NY. Fall 2014, Fall 2015, Fall 2016, Fall 2017.
- EPID P8471: *Social Epidemiology* (Lisa Bates, Professor), Department of Epidemiology, Columbia University, Mailman School of Public Health, New York, NY. Spring 2015.
- EPID P8483: *Application of Epidemiologic Research methods* (Ryan Demmer), Department of

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

Role: Guest lecturer

- HPMN P8594: *Addressing the Opioid Crisis* (Andrew Kolodny, Adjunct), Department of Health Policy and Management, Columbia University, Mailman School of Public Health, New York, NY, Spring 2019
- FM520: *Research-based Health Activism* (Aaron Fox, Associate Professor), Department of Family and Social Medicine, Albert Einstein College of Medicine, New York, NY, Spring 2019
- EPID P8470: *Epidemiology of Drug and Alcohol Problems* (Deborah Hasin, Professor), Department of Epidemiology, Columbia University, Mailman School of Public Health, New York, NY, Fall 2019
- EPID P8470: *Epidemiology of Drug and Alcohol Problems* (Deborah Hasin, Professor), Department of Epidemiology, Columbia University, Mailman School of Public Health, New York, NY, Fall 2020

UNIVERSITY AND DEPARTMENTAL SERVICE

- Doctoral Student Liaison, Columbia University, Department of Epidemiology, 2014-2016
- Member, Addiction Illness: Medical Solutions, 2013-2017
- Member, Center for the Study of Social Inequalities and Health, 2013-2016

OTHER PROFESSIONAL ACTIVITIES

EDITING

Former

- Contributing Editor for *StressPoints Bulletin*, 2015-2017

JOURNAL REVIEW

Addiction, Addictive Behaviors, Alcoholism: Clinical and Experimental Research, American Journal of Epidemiology, American Journal of Psychiatry, BMC Psychiatry, Drug and Alcohol Dependence, Drug and Alcohol Review, Epidemiology and Psychiatric Sciences, European Journal of Epidemiology, Injury Epidemiology, International Journal of Drug Policy, Journal of Clinical Psychiatry, Journal of Drug Issues, Journal of Traumatic Stress, Medical Care, Military Medicine, Pain Medicine, Pediatrics, PLoS One, Prevention Science, Psychiatric Services, Psychological Medicine, Psychological Trauma: Theory, Research, and Policy, Public Health Reports, Social Psychiatry and Psychiatric Epidemiology, Social Science & Medicine, SSM-Population Health

ABSTRACT REVIEW

Society of Epidemiologic Research Annual Meeting
American Public Health Association Annual Meeting

GRANT REVIEW

District of Columbia, Office of Victim Services, Consolidated Request for Application, 2014-2017

ADVISORY BOARD

Avoiding Risks from Methamphetamine Use (ARM-U) advisory board, 2006-2007

Study to Assess Hepatitis C Risk (STAHR) advisory board, 2007-2009

Epidemiology Team, National Center for Disaster Preparedness, 2013-2014

PUBLICATIONS

PEER-REVIEWED JOURNAL PUBLICATIONS

Published

1. Nunnick S, **Fink DS**, Baker DB. The impact of sexual functioning problems on mental well-being in U.S. veterans from the Operation Enduring Freedom and Operation Iraqi Freedom (OEF/OIF) conflicts. *International Journal of Sexual Health*. 2012;24:14-25. doi: 10.1080/19317611.2011.639441
2. Gallaway MS, **Fink DS**, Millikan AM, Bell MR. Factors associated with physical aggression among U.S. Army soldiers. *Aggressive Behavior*. 2012;38(5):357-367. doi: 10.1002/ab.21436. PMID: 22898873.
3. Baker DG, Nash WP, Litz BT, Geyer MA, Risbrough VB, Nievergelt CM, O'Connor DT, Larson GE, Schork NJ, Vasterling JJ, Hammer PS, Webb-Murphy JA, the **MRS Team**. Predictors of risk and resilience for posttraumatic stress disorder among ground combat Marines: Methods of the Marine Resiliency Study. *Preventing Chronic Disease*. 2012; 9:110-134.
4. **Fink DS**, Gallaway MS, Millikan AM. Assessment of subthreshold and developing behavioral health concerns among U.S. Army Soldiers. *Military Medicine*. 2013;178(11):1188-1195. doi: 10.7205/MILMED-D-13-00243. PMID: 24183764.
5. **Fink DS**, Lindsay S, Slymen DJ, Kral A, Bluthenthal R. Abscesses and Self-Treatment Among Injection Drug Users. *Substance Use and Misuse*. 2013;48(7):523-531. doi: 10.3109/10826084.2013.787094. PMID: 23581506. PMCID: PMC4334130.
6. Gallaway MS, **Fink DS**, Bell MR, Mitchell MM, Millikan AM. The association between combat exposure and negative behavioral and psychiatric conditions. *The Journal of Nervous and Mental Disease*. 2013;201(7):572-578. doi: 10.1097/NMD.0b013e318298296a. PMID: 23817154.
7. Gallaway MS, Bell MR, Lagana-Riordan C, **Fink DS**, Meyer CE, & Millikan AM. The association between U.S. Army enlistment waivers and subsequent behavioral and social health outcomes and attrition from service. *Military Medicine*. 2013; 178: 261-266. doi: 10.7205/MILMED-D-12-00316. PMID: 23707111.
8. Gallaway MS, Lagana-Riordan C, **Fink DS**, Pecko JA, Barczyk AN, Brannen SJ, Millikan AM. An epidemiological assessment of reintegration and behavioral health risk at Joint Base Lewis-

- McCord, Washington. *Military Medicine*. 2014;179(6):594-601. doi: 10.7205/MILMED-D-13-00340. PMID: 24902124.
9. Gallaway MS, Mitchell MM, **Fink DS**, Forsys-Donahue K, Pecko J, Bell MR, Millikan AM. Combat exposure factors associated with the likelihood of behavioral and psychiatric issues. *Military Psychology*. 2014;2:138-146. doi: 10.1080/21635781.2014.897205.
 10. Moeller-Bertram T, Afari, N, Mostoufi, S, **Fink DS**, Johnson-Wright, L, Baker DB. Specific pain complaints in Iraq and Afghanistan veterans screening positive for posttraumatic stress disorder. *Psychosomatics*. 2014;55(2):172-178. doi: 10.1016/j.psych.2013.01.011. PMID: 23473449.
 11. **Fink DS**, Gallaway MS, Millikan AM. An examination of successful soldier post-deployment transition from combat to garrison life. *Journal of Traumatic Stress*. 2014;27(1):98-102. doi: 10.1002/jts.21876. PMID: 24375732.
 12. Dabbs C, Watkins E, **Fink DS**, Eick A, Millikan AM. Opiate related dependence/abuse and PTSD exposure among the active-component US military, 2001-2008. *Military Medicine*. 2014;179(8):885-890. doi: 10.7205/MILMED-D-14-00012. PMID: 25102531.
 13. Lowe SL, **Fink DS**, Norris F, Galea S. Frequencies and predictors of barriers to mental health service use: A longitudinal study of Hurricane Ike survivors. *Social Psychiatry and Psychiatric Epidemiology*. 2015;50(1):99-108. doi: 10.1007/s00127-014-0908-y. PMID: 24929355; PMCID: PMC4266627.
 14. Gallaway MS, Lagana-Riordan C, Dabbs CR, Bell MR, Bender AA, **Fink DS**, Forsys-Donahue KL, Pecko JA, Schmissrauter SC, Perales R, Coombs MA, Rattigan MR, Millikan AM. A mixed methods epidemiological investigation of preventable deaths among U.S. Army Soldiers assigned to a rehabilitative Warrior Transition Unit. *WORK: A Journal of Prevention, Assessment and Rehabilitation*. 2015;50:21-36. doi: 10.3233/WOR-141928. PMID: 25227672.
 15. Cohen GH, **Fink DS (Co-First Authors)**, Sampson L, Galea S. Mental health among reserve component military service members and veterans. *Epidemiologic Reviews*. 2015;37(1):7-22. doi: 10.1093/epirev/mxu007. PMID: 25595172; PMCID: PMC4325668.
 16. **Fink DS**, Sampson L, Tamburrino MB, Liberzon I, Slembariski R, Chan P, Cohen GH, Shirley E, Goto T, D'Arcangelo N, Fine T, Reed PL, Galea S, Calabrese JR. Lifetime and 12-month use of mental health services among US Army National Guard Soldiers. *Psychiatric Services*. 2015;66(5):514-520. doi: 10.1176/appi.ps.201400128. PMID: 25639992.
 17. **Fink DS**, Galea S. Life course epidemiology of trauma and related psychopathology. *Current Psychiatric Reports*. 2015;17(5):566. doi: 10.1007/s11920-015-0566-0. PMID: 25773222; PMCID: PMC4380344.
 18. **Fink DS**, Hu R, Cerdá M, Keyes KM, Marshall BDL, Galea S, Martins SS. Patterns of major depression and nonmedical use of prescription opioids in the United States. *Drug and Alcohol Dependence*. 2015;153:258-264. doi: 10.1016/j.drugalcdep.2015.05.010. PMID: 26026492; PMCID: PMC4509797.

19. Sampson L, Cohen GH, Calabrese, JR, **Fink DS**, Tamburrino M, Liberzon I, Chan P, Galea S. Mental health over time in a military population: The impact of alcohol misuse on trajectories of psychopathology after deployment. *Journal of Traumatic Stress*. 2015; 28(6);547-555. doi: 10.1002/jts.22055. PMID: 26625353; PMCID: PMC4681498
20. **Fink DS**, Keyes KM, Cerdá M. Social determinants of population health: A Systems sciences approach. *Current Epidemiology Reports*. 2016; 3(1);98-105. doi: 10.1007/s40471-016-0066-8. PMID: 27642548; PMCID: PMC5025257.
21. **Fink DS**, Gallaway MS, Tamburrino MB, Liberzon I, Chan P, Cohen GH, Sampson L, Shirley E, Goto T, D’Arcangelo N, Fine T, Reed PL, Calabrese JR, Galea S. Onset of alcohol use disorders and comorbid psychiatric disorders in a military cohort: Are there critical periods for prevention of alcohol use disorders? *Prevention Science*. 2016; 17(3);347-356. doi: 10.1007/s11121-015-0624-1. PMID: 26687202; PMCID: PMC4791188.
22. **Fink DS**, Cohen GH, Sampson LA, Gifford RK, Fullerton C, Ursano R, Galea S. Incidence of and risk for posttraumatic stress disorder and depression in a representative sample of U.S. Reserve and National Guard. *Annals of Epidemiology*. 2016; 26;189-197. doi: 10.1016/j.annepidem.2016.01.003. PMID: 26907538; PMCID: PMC4799730.
23. Carliner H, Delker E, **Fink DS**, Keyes KM, Hasin DS. Experiences of racial discrimination and illicit drug use among U.S. blacks by socioeconomic position. *Social Psychiatry and Psychiatric Epidemiology*. 2016; 51(4):551-560. PMID: 26810670; PMCID: PMC4824661.
24. Cohen GH, Sampson L, **Fink DS**, Wang J, Russel D, Gifford R, Fullerton C, Ursano RJ, Galea S. Gender, position of authority, and the risk of depression and posttraumatic stress disorder among a national sample of U.S. Reserve Component personnel. *Women’s Health Issues*. 2016; 26(3):268-277. doi: 10.1016/j.whi.2016.01.001. PMID: 26899583; PMCID: PMC5008021.
25. **Fink DS**, Calabrese JR, Liberzon I, Tamburrino MB, Chan P, Cohen GH, Sampson L, Reed PL, Shirley E, Goto T, D’Arcangelo N, Fine T, Galea S. Retrospective age-of-onset and projected lifetime prevalence of psychiatric disorders among U.S. Army National Guard soldiers. *Journal of Affective Disorders*. 2016; 202:171-177. doi: 10.1016/j.jad.2016.05.025. PMID: 27262639; PMCID: PMC4947427.
26. **Fink DS**, Chen Q, Liu Y, Tamburrino MB, Liberzon I, Shirley E, Fine T, Cohen GH, Galea S, Calabrese JR. Incidence and risk for mood and anxiety disorders in a representative sample of Ohio Army National Guard Members. *Public Health Reports*. 2016; 131(4):614-622. PMID: 27453607; PMCID: PMC4937124.
27. Brown Q, Hasin DS, Keyes KM, **Fink DS**, Ravenell O, Martins SS. Health insurance, alcohol and tobacco use among pregnant and non-pregnant women of reproductive age. *Drug and Alcohol Dependence*. 2016; 166:116-124. doi: 10.1016/j.drugalcdep.2016.07.001. PMID: 27422762; PMCID: PMC4983465.
28. **Fink DS**, Lowe S, Cohen GH, Sampson LA, Ursano RJ, Gifford RK, Fullerton CS, Galea S. Trajectories of posttraumatic stress symptoms after civilian and military traumatic event experiences. *Psychological Trauma: Theory, Research, Practice, and Policy*. 2017; 9(2):138-146.

doi: 10.1037/tra0000147. PMID: 27845522; PMCID: PMC5161718.

29. Cohen GH, **Fink DS**, Sampson L, Tamburrino M, Liberzon I, Calabrese JR, Galea S. Coincident alcohol dependence and depression increases risk of suicidal ideation among Army National Guard soldiers. *Annals of Epidemiology*. 2017; 27(3):157-163 doi: 10.1016/j.annepidem.2016.12.004. PMID: 28139369; PMCID: PMC5505073
30. Lovasi GS, **Fink DS**, Mooney SJ, Link BG. Model-based and Design-based Inference Goals Frame how to account for Neighborhood Clustering in Studies of Health in Overlapping Context Types. *Social Science and Medicine – Population Health*. 2017; 3:600-608. doi: 10.1016/j.ssmph.2017.07.005. PMID: 29276757; PMCID: PMC5737714.
31. **Fink DS**, Keyes KM, Calabrese JR, Liberzon I, Tamburrino MB, Cohen GH, Sampson L, Galea S. Deployment and Alcohol Use in a Military Cohort: Use of Combined Methods to Account for Exposure-Related Covariates and Heterogeneous Response to Exposure. *American Journal of Epidemiology*. 2017; 186(4):411-419. doi: 10.1093/aje/kww230. PMID: 28482012. PMCID: PMC5860008.
32. **Fink DS**, Santaella-Tenorio J, Keyes KM. Celebrity Suicide and News Media: Increase in Suicides the Months After the Death of Robin Williams in the U.S. *PLoS One*. 2018; 13(2): e0191405. doi:10.1371/journal.pone.0191405. PMID: 29415016. PMCID: PMC5802858.
| [BBC](#) | [Reuters](#) | [Washington Post](#) | [USA Today](#) | [The Boston Globe](#) | [Chicago Tribune](#) |
| [New York Daily News](#) | [U.S. News & World Report](#) | [TIME Magazine](#) | [CNN](#) | [NBC News](#)
| [CBS News](#) | [HuffPost Canada](#) | [The Verge](#) | [Gizmodo](#) | [Business Insider](#) | [The Hill](#) | [Metro](#)
| [Pacific Standard](#) | [Mother Jones](#) | [Daily Mail](#) | [VICE](#) | [AOL](#) | [Healthline](#)
| [Psychology Today](#) |
33. Sarvet AL, Wall MM, **Fink DS**, Greene E, Le A, Boustead AE, Pacula RL, Keyes KM, Cerdá M, Schulenberg JE, Galea S, Hasin DS. Medical marijuana laws and adolescent marijuana use: A systematic review. *Addiction*. 2018; 113(6):1003-1016. doi:10.1111/add.14136. PMID: 29468763. PMCID: PMC5942879.
34. **Fink DS**, Schleimer JP, Sarvet A, Grover KK, Delcher C, Kim JH, Castillo-Carniglia A, Rivera-Aguirre, AE, Henry SG, Martins SS, Cerdá M. Association Between Prescription Drug Monitoring Programs and Nonfatal and Fatal Drug Overdoses: A Systematic Review. *Annals of Internal Medicine*. 2018; 168(11):783-790. Doi:10.7326/M17-3074. PMID: 29801093. PMCID: PMC6015770.
| [American Journal of Managed Care](#) | [Chicago Sun-Times](#) | [CNN](#) | [Daily Mail](#) | [Health Day](#) |
| [New York Post](#) | [Washington Post](#) | [The Washington Times](#) | [U.S. News and World Report](#) |
35. Moeller SJ, **Fink DS**, Gbedemah M, Hasin DS, Galea S, Svolensky MJ, Goodwin RD. Trends in illicit drug use among smokers and non-smokers in the United States, 2002-2014. *Journal of Clinical Psychiatry*. 2018; 79(3):17m11718. doi: 10.4088/JCP.17m11718. PMID: 29894597. PMCID: PMC6139671.
36. **Fink DS**, Gradus JL, Keyes KM, Calabrese JR, Liberzon I, Tamburrino MB, Cohen GH, Sampson L, Galea S. Subthreshold PTSD and PTSD in a prospective-longitudinal cohort of military personnel: Potential targets for preventive intervention. *Depression & Anxiety*. 2018;

- 35(11): 1048-1055. doi: 10.1002/da.22819. PMID: 30099820. PMCID: PMC62123.
37. Smith N, Martins SS, Kim J, Rivera-Aguirre AE, **Fink DS**, Castillo A, Henry S, Mooney S, Marshall B, Davis C, Cerdá M. A typology of prescription drug monitoring programs: A latent transition analysis of the evolution of programs in 1999-2015. *Addiction*. [Epub ahead of print]. doi: 10.1111/add.14440. PMID: 30207015. PMCID: PMC6314884.
 38. Muennig, P, Geronimus A, **Fink DS**, Reynolds M. The real reasons behind America's declining life expectancy. *American Journal of Public Health*. 2018 Dec; 108(12):1626-1631. doi: 10.2105/AJPH.2018.304585. PMID: 30252522. PMCID: PMC6221922
 39. Pear VA, Ponicki WR, Gaidus A, Keyes KM, Martins SS, **Fink DS**, Rivera-Aguirre A, Gruenwald P, Cerdá M. Urban-rural variation in the socioeconomic determinants of opioid overdose. *Drug and Alcohol Dependence*. [Epub ahead of print]. doi: 10.1016/j.drugalcdep.2018.11.024. PMID: 30592998. PMCID: PMC6375680.
 40. Castillo-Carniglia A, Ponicki W, Gaidus A, Gruenewald P, Marshall BDL, **Fink DS**, Martins SS, Rivera-Aguirre A, Wintemute GJ, Cerdá M. Prescription drug monitoring programs and opioid overdose: exploring sources of heterogeneity. *Epidemiology*. 2019; 30(2):212-220. doi: 10.1097/EDE.0000000000000950. PMID: 30721165. PMCID: PMC6437666.
 41. Gallaway MS, **Fink DS**, Sampson L, Cohen GH, Tamburrino M, Liberzon I, Calabrese J, Galea S. Prevalence and covariates of problematic gambling among a US military cohort. *Addictive Behaviors*. 2019; 959:166-171. doi: 10.1016/j.addbeh.2019.03.013. PMID: In process. PMCID: PMC6574081.
 42. Whitley R, **Fink DS**, Santaella-Tenoio J, Keyes KM. Suicide mortality in Canada after the death of Robin Williams, in the context of high-fidelity to suicide reporting guidelines in the Canadian media. *Canadian Journal of Psychiatry*. *The Canadian Journal of Psychiatry*. 2019; 64(11):805-512. doi: 10.1177/0706743719854073. PMID: 31181955. PMCID: PMC6882074.
 43. Martins SS, Ponicki W, Smith N, Rivera-Aguirre A, Davis CS, **Fink DS**, Castillo-Carniglia A, Henry SG, Marshall BDL, Gruenewald P, Cerda M. Prescription drug monitoring programs operational characteristics and fatal heroin poisoning. *International Journal of Drug Policy*. 2019; Dec(74):174-180. doi: 10.1016/j.drugpo.2019.10.001. PMID: 31627159. PMCID: PMC6897357.
 44. **Fink DS**, Stohl M, Sarvet AL, Cerda M, Keyes KM, Hasin D. Medical marijuana laws and driving under the influence of marijuana and alcohol. *Addiction*. 2020; 115:1944-1953. doi: 10.1111/add.15031. PMID: 32141142. PMCID: PMC7483706.
 45. Cerda M, Ponicki W, Smith N, Rivera-Aguirre A, Davis C, Marshall BDL, **Fink DS**, Henry SG, Castillo-Carniglia A, Wintemute G, Gaidus A, Gruenewald P, Martins SS. Measuring relationships between proactive reporting state-level prescription drug monitoring programs and county-level fatal prescription opioid overdoses. *Epidemiology*. 2020; 31(1):32-42. doi: 10.1097/EDE.0000000000001123. PMID: 31596794. PMCID: In process
 46. Puac-Polanco V, Chihuri S, **Fink DS**, Cerda M, Keyes K, Li G. Prescription drug monitoring

programs and opioid-related outcomes in the United States. *Epidemiologic Reviews*. 2020; doi: 10.1093/epirev/mxaa002, [Epub ahead of print]. PMID: 32242239.

47. Rudolph KE, Kinnard EN, Rivera-Aguirre A, Goin DE, Feelemyer J, **Fink DS**, Cerda M. The relative economy and drug overdose deaths. *Epidemiology*. 2020; 31(4):551-558; doi:10.1097/EDE.0000000000001199. PMID: 32332222. PMCID: PMC7505523.
48. DeVilbiss EA, Weuve J, **Fink DS**, Morris MD, Arah OA, Radoc JG, Datta G, Abuelezam NN, Lopez D, Johnson DA, Branäs CC, Schisterman EF, on behalf of the Society for Epidemiologic Research Diversity and Inclusion Committee. Assessing representation and perceived inclusion among members in the Society for Epidemiologic Research. *American Journal of Epidemiology*. 2020; 189(10): 998-1010; doi: 10.1093/aje/kwz281. PMID: 31907518.

In Press/Accepted

49. Sampson L, Gradus JL, Cabral HJ, Rosellini AJ, Calabrese JR, Cohen GC, **Fink DS**, King AP, Liberzon I, Galea S. A machine learning approach to predicting new-onset depression in a military population. *Psychiatric Research and Clinical Practice*. Doi: 10.1176/appi.prcp.20200031
50. Pitman A, **Fink DS**, Whitley R. Patterns of suicide mortality in England and Wales before and after the suicide of the actor Robin Williams. *Social Psychiatry and Psychiatric Epidemiology*. *Accepted*.
51. Enkema MC, Hasin DS, Browne KC, Stohl M, Schmulewitz D, **Fink DS**, Olfson M, Martins SS, Bohnert KM, Sherman SE, Cerda M, Wall M, Aharonovich E, Keyhani S, Saxon AJ. Pain, cannabis use, physical health and mental health indicators among veterans and non-veterans: Results from NESARC-III. *Pain*. *Accepted*.

Under Review

52. **Fink DS**, Keyes KM, Branäs C, Cerda M, Gruenwald P, Hasin D. Prescription opioid supply, fatal drug poisonings, and socioeconomic conditions in the United States.
53. Keyes KM, Hamilton A, Tracy M, Kagawa R, Pear V, **Fink DS**, Cook PJ, Branäs C, Cerda M. Simulating the bounds of plausibility: Estimating the impact of high-risk versus population-based approaches to prevent firearm injury.
54. Smith M, **Fink DS**, Gradus J, Giovenco D, Keyes KM, Sampson L, Cohen GH, Shui Y, Tamburrino M, Liberzon I, Calabrese J, Galea S. Electronic cigarette and combustible cigarette use in the Ohio Army National Guard.
55. Gutkind S, Schmulewitz D, **Fink DS**, Stohl M, Hasin D. Psychosocial problems in US adults with alcohol use and cannabis use, 2012-2013.
56. Hasin D, Ahronovich E, Zingman B, Menchaca R, Stohl M, Walsh C, Knox J, **Fink DS**. Smartphone intervention to reduce heavy drinking in HIV care.
57. Castillo-Carniglia A, Rivera-Aguirre A, **Fink DS**, Santaella-Tenorio J, Crystal S, Ponicki W,

Gruenewald P, Martins SS, Keyes KM, Cerda M. How did opioid and benzodiazepine poisoning deaths change after cannabis legalization? A county-level analysis in 2001-2018.

58. Sampson L, Cohen CH, **Fink DS**, Conroy C, Calabrese JR, Wryobeck JM, Elhai JD, King AP, Liberzon I, Galea S. Cohort Profile: Ohio Army National Guard Mental Health Initiative (OHARNG-MHI).
59. **Fink DS**, Schleimer JP, Keyes KM, Branas C, Cerda M, Hasin D. Prescription opioid supply and socioeconomic determinants of drug overdose deaths: A systematic review of spatial relationships.
60. Sampson L, Cabral HJ, Rosellini AJ, Gradus JL, Calabrese JR, Cohen GH, **Fink DS**, King AP, Liberzon I, Galea S. Stressful life events in relation to trajectories of depression symptoms over time in a U.S. Army National Guard cohort.

LETTERS TO THE EDITOR/COMMENTARIES

Published

1. **Fink DS**. Commentary on Andreas et al. (2017): Cannabis use opportunities—an under-researched factor in substance use epidemiology. [commentary]. *Addiction*. 2017; 112(11); 1983-1984. doi: 10.1111/add.14022. PMID: 28990297. PMCID: PMC5650476.
2. Gilman SE, Arah OA, Branas CC, DeVilbiss EA, **Fink DS**, Lopez DS, Morris MD, Weuve J, Abuelezam NN, et al. The Society for Epidemiologic Research (SER) and the future of diversity and inclusion in epidemiology [commentary]. *American Journal of Epidemiology*. 2020; 189(10); 1049-1052. doi: 10.1093/aje/kwaa109. PMID: 32602528. PMCID: PMC7666411.
3. DeVilbiss EA, Weuve J, **Fink DS**, Morris MD, Arah OA, Radoc JG, Datta GD, Abuelezam NN, Lopez DS, Johnson DA, Branas CC, Schisterman EF, et al. Response to SER diversity and inclusion survey commentaries [commentary]. *American Journal of Epidemiology*. 2020; 189(10); 1053-1056. doi: 10.1093/aje/kwaa103. PMID: 32602539. PMCID: PMC7670874.
4. Keyes KM, Whitley R, **Fink DS**, Santaella J, Pirkis J. The global impact of a celebrity suicide: implications for prevention. [letter to the editor]. *World Psychiatry*. 2021; 20(1); 144-145. doi: 10.1002/wps.20761. PMID: 33432751. PMCID: PMC7801848.

BOOK CHAPTERS

Published

1. **Fink DS**, Keyes K. *Wrong answers: When simple interpretations create complex problems*. In Systems Science and Population Health. eds. El-Sayed A, Galea S: Oxford University Press. 2017.
2. **Fink DS**, Keyes K, Cerdá M. *Systems and social determinants of population health*. In Systems Science and Population Health. eds. El-Sayed A, Galea S: Oxford University Press. 2017.
3. **Fink DS**, Schleimer JP, Sarvet A, Grover KK, Delcher C, Kim JH, Castillo-Carniglia A, Rivera-

Aguirre AE, Henry SG, Cerdá M, Martins SS. *Promoting Prescription Drug Monitoring for Population Health: Research and Policy implications*. In The Prescription Drug Abuse Epidemic: Incidence, Treatment, Prevention, and Policy. eds. Schepis T: ABC-CLIO. 2018.

4. **Fink DS**, Kim H, Eaton NR. *Psychiatric epidemiology methods*. In Wright AGC & Hallquist M (Eds.), The Cambridge Handbook of Research Methods in Clinical Psychology. Cambridge University Press. 2020.

REPORTS

1. **Fink DS**, Gallaway MS, Bender A, Schmissrauter S, Lagana-Riordan C, Brannen SJ, Pecko J, & Millikan AM. Epidemiologic Consultation (Report #14-HK-0EQR-11) Behavioral Health Risk Assessment and Correlating Perceptions of Programs and Resources for 3rd Brigade Combat Team, 101st Airborne Division (Air Assault), Fort Campbell, Kentucky, April-October 2011, Published July 2012.
2. **Fink DS**, & Gallaway MS. Information Paper. Utility and Validity of the Tailored Adaptive Personality Assessment System in the U.S. Army, Published November 2012.
3. Dabbs C, Youmans E, Gallaway MS, Brannen SJ, Perales R, **Fink DS**, Lagana-Riordan C, & Millikan AM. Epidemiologic Consultation (Report #14-HK-0DS7-11) Warrior in Transition Unit Index Case Analysis, 2012.
4. Behavioral and Social Health Outcomes Program. Epidemiological Consultation (Report #S.0000646-12). Assessment of squad leader perceptions of their role in managing the behavioral health of their Soldiers before and after development at Fort Campbell, Tennessee, 2 May- 24 May 2012, published 2013.

PRESENTATIONS AND INVITED LECTURES

ACADEMIC CONFERENCES

1. **Fink DS**. Preventative Health Habits Among Korean American Women in California. San Diego State University Research Symposium. [Oral presentation] San Diego, CA. 2009
2. **Fink DS**, Gallaway MS, Pecko J, Lagana-Riordan C, Millikan AM. An Examination of successful Soldier post-deployment transition from combat to home. American Public Health Association [Oral presentation] San Francisco, CA. 2012.
3. **Fink DS**, Watkins E, Gallaway MS, Millikan AM. The association between family and relationship issues and life stressors among U.S. Soldiers. Epidemiology and Disease Surveillance Symposium [Oral presentation] Aberdeen Proving Grounds, MD. 2013.
4. **Fink DS**, Tamburrino M, Calabrese J, Chan P, Cohen G, Liberzon I, Galea S. Onset and Prevalence of Psychiatric Disorders in a Representative Sample of Army National Guard Soldiers. Society of Epidemiologic Research Annual Meeting [Poster presentation] Seattle, WA. 2014.

5. **Fink DS**, Gallaway MS, Liberzon I, Tamburrino M, Chan P, Cohen G, Galea S. The epidemiology of co-occurring alcohol use and psychiatric disorders among Army National Guard soldiers. Society of Epidemiologic Research Annual Meeting [Poster presentation] Seattle, WA. 2014.
6. **Fink DS**, Tamburrino M, Calabrese J, Liberzon I, Cohen G, Galea S. Onset and Prevalence of Psychiatric Disorders in a Representative Sample of Army National Guard Soldiers. International Society for Traumatic Stress Studies [Poster presentation] Miami, FL. 2014.
7. **Fink DS**, Liberzon I, Tamburrino M, Chan P, Galea S, Calabrese J. The Epidemiology of Co-Occurring Alcohol Use and Psychiatric Disorders among Army National Guard Soldiers. International Society for Traumatic Stress Studies [Poster presentation] Miami, FL. 2014.
8. **Fink DS**, Hu R, Cerdá M, Keyes KM, Marshall BDL, Galea S, Martins SS. Potential Determinants of Unique and Co-Occurring Major Depression and Nonmedical Use of Prescription Opioids. The College of Problems of Drug Dependence [Poster presentation] Phoenix, AZ. 2015.
9. **Fink DS**, Lowe S, Sampson L, Cohen GH, Ursano RJ, Gifford R, Fullerton C, Galea S. Modeling the trajectories of civilian and military trauma symptoms in a representative sample of US National Guard and Reserve: A latent growth mixture modeling approach. Society of Epidemiologic Research [Poster presentation] Denver, CO. 2015.
10. Cerdá M, Hamilton A, **Fink DS**, Swanson J, Wintemute G, Keyes KM. Mental health and firearm violence: From evidence to action. The International Federation of Psychiatric Epidemiology [Accepted oral presentation] Bergen, Norway. 2015.
11. **Fink DS**, Lowe S, Sampson L, Cohen GH, Ursano RJ, Gifford R, Fullerton C, Galea S. Modeling trajectories of civilian and military trauma symptoms in a representative sample of U.S. National Guard and Reserve: A latent class growth modeling approach. International Society for Traumatic Stress Studies [Oral presentation] New Orleans, LA. 2015.
12. **Fink DS**, Cohen GH, Sampson LA, Gifford RK, Fullerton C, Ursano R, Galea S. Incidence of and risk for depression and posttraumatic stress disorder in a representative sample of U.S. Reserve and National Guard. International Society for Traumatic Stress Studies [Poster presentation] New Orleans, LA. 2015.
13. **Fink DS**, Keyes KM, Cohen GH, Sampson L, Calabrese J, Tamburrino M, Liberzon I, Galea S. Deployment and alcohol trajectories in a military cohort: Use of propensity score techniques to account for exposure-related covariates. Epidemiology Congress of the Americas [Poster presentation] Miami, FL. 2016.
14. **Fink DS**, Gradus J, Tamburrino M, Liberzon I, Calabrese J, Keyes KM. On the assessment of subthreshold PTSD: Convergent, Discriminant, and concurrent validity to various definitions. International Society for Traumatic Stress Studies [Poster presentation] Dallas, TX. 2016.
15. **Fink DS**, Santaella J, Keyes KM. Celebrity Suicide and News Media: Increase in Suicides the Months After the Death of Robin Williams in the U.S. New York City Epidemiology Forum

[Poster presentation], New York, NY. 2017.

16. Castillo-Carniglia A, Gaidus A, Ponicki B, Gruenewald P, Marshall BDL, **Fink DS**, Martins SS, Wintemute GJ, Cerdá M. Prescription drug monitoring programs and heroin and prescription opioid overdose: Exploring socioeconomic and other sources of heterogeneity. Society for Epidemiologic Research [Oral presentation], Seattle, WA. 2017.
17. Sampson LA, **Fink DS**, Cohen GH, Galea S, Calabrese J, Tamburrino M, Liberzon I. New onset of mental disorders across five years of follow-up in a sample of National Guard members. International Society for Traumatic Stress Studies [Poster presentation] Chicago, IL. 2017.
18. Castillo-Carniglia A, Ponicki W, Gaidus A, Gruenewald P, Marshal B, **Fink DS**, Martins SS, Rivera-Aguirre A, Wintemute G, Cerda M. Prescription drug monitoring programs and opioid overdoses: Exploring sources of heterogeneity. The College of Problems of Drug Dependence [Poster presentation] San Diego, CA. 2018.
19. Castillo-Carniglia A, Ponicki W, Gruenewald P, Santaella-Tenorio J, Kim JH, **Fink DS**, Davis C, Martins SS, Pear V, Henry SG, Wintemute G, Keyes KM, Cerda M. Association between medical marijuana laws and prescription opioid and benzodiazepines overdose deaths: A county-level analysis from 2002 to 2015. The College of Problems of Drug Dependence [Poster presentation] San Diego, CA. 2018.
20. **Fink DS**, Schleimer JP, Sarvet A, Grover KK, Delcher C, Kim JH, Castillo-Carniglia A, Rivera-Aguirre, AE, Henry SG, Martins SS, Cerdá M. Effect of Prescription Drug Monitoring Programs on Nonfatal and Fatal Drug Overdoses: A Systematic Review. The College of Problems of Drug Dependence [Poster presentation] San Diego, CA. 2018.
21. McKetta S, **Fink DS**, Keyes KM, Brown Q, Zafari Z, Muennig P. Mortality and religious beliefs, attitudes, and practices in the General Social Survey. Society for Epidemiologic Research [Poster presentation], Baltimore, MD. 2018.
22. **Fink DS**, Gradus JL, Keyes KM, Calabrese JR, Liberzon I, Tamburrino MB, Cohen GH, Sampson L, Galea S. Proportion of future PTSD conferred by subthreshold PTSD in a military cohort. Society for Epidemiologic Research [Poster presentation], Baltimore, MD. 2018.
23. Kravitz-Wirtz N, Davis C, Ponicki W, Gruenewald P, **Fink DS**, Martins SS, Marshall BDL, Wintemute G, Cerda M. Effects of good Samaritan laws on prescription opioid and heroin overdose fatalities. Society for Epidemiologic Research [Poster presentation], Baltimore, MD. 2018.
24. **Fink DS**, Gradus JL, Keyes KM, Calabrese JR, Liberzon I, Tamburrino MB, Cohen GH, Sampson L, Galea S. Proportion of future PTSD conferred by subthreshold PTSD in a military cohort. International Society for Traumatic Stress Studies [Oral presentation] Washington, DC. 2018.
25. Sampson L, **Fink DS**, Cohen GH, Calabrese JR, Liberzon I, Tamburrino MB, Galeas S. Childhood Adversity and Trajectories of Depression Symptoms in Adulthood Across Six Years

in a U.S. Army National Guard Cohort. International Society for Traumatic Stress Studies [Poster presentation] Washington, DC. 2018.

26. Delcher C, Young H, **Fink DS**, Wang Y. Prevalence of “Doctor Shopping” for Control Substances: A Systematic Review of the Literature. International Conference on Opioids [Poster presentation] Boston, MA. 2019
27. Whitley R, **Fink DS**, Santaella-Tenorio J, Keyes KM. Mainstream Media Coverage of Robin Williams' Suicide and Subsequent Suicide Mortality in Canada: A Contributor to Contagion? International Association for Suicide Prevention [Oral presentation] Derry-Londonderry, Northern Ireland. 2019.
28. Cerda M, Hamilton A, **Fink DS**, Keyes KM. Simulating the bounds of plausibility: Estimating the impact of high-risk versus population-based approaches to prevent gun violence. Society for Epidemiologic Research [Oral presentation] Minneapolis, MN. 2019.
29. **Fink DS**, Sarvet A, Cerda M, Keyes KM, Jorgenson ES, Hasin D. Driving under the influence of alcohol or cannabis in the United States: Relationship to state medical marijuana laws. Society for Epidemiologic Research [Oral presentation] Minneapolis, MN. 2019.
30. Sampson L, Gradus JL, Cabral HJ, Cohen GH, **Fink DS**, Wryobeck JM, Calabrese JR, Liberzon I, Galea S. A machine learning approach to predicting incident depression. Society for Epidemiologic Research [Poster presentation] Minneapolis, MN. 2019.
31. **Fink DS**, Keyes KM, Branäs C, Gruenwald P, Cerda M, Hasin DS. Association between prescription opioid supply and fatal drug poisonings in the United States. American Psychopathological Association (APPA) [Poster presentation] NY. 2020.
32. **Fink DS**, Keyes KM, Branäs C, Gruenwald P, Cerda M, Hasin DS. Association between prescription opioid supply and fatal drug poisonings in the United States. The College of Problems of Drug Dependence [Poster presentation] FL. 2020.
33. **Fink DS**, Keyes KM, Branäs C, Cerda M, Gruenwald P, Hasin D. Prescription opioid supply, fatal drug poisonings, and socioeconomic conditions in the United States. American Psychopathological Association (APPA) [Virtual poster presentation]. 2021.
34. **Fink DS**, Keyes KM, Branäs C, Cerda M, Gruenwald P, Hasin D. Prescription opioid supply, fatal drug poisonings, and socioeconomic conditions in the United States. The College of Problems of Drug Dependence [Virtual poster presentation]. 2021.
35. The SER Diversity and Inclusion Survey: What’s Next? Symposium chair, Society for Epidemiologic Research, June 2021, San Diego, Ca.
36. SER Diversity and Inclusion Survey: Overview, Challenges, Lessons Learned, and What’s next. Symposium presentation, Society for Epidemiologic Research, June 2021, San Diego, Ca.

INVITED PRESENTATIONS

1. Hepatitis B from Transmission through Treatment. Hepatitis Training of Providers, San Diego County Department of Health. June, 2006, San Diego, CA.
2. Co-Occurring Substance Use and Psychiatric Disorder: Exploratory Steps Towards a Theoretical Framework. Symposium presentation. Substance Abuse Faculty/Fellows Training Seminar. May 2015, New York, NY.
3. Deployment and alcohol trajectories in a military cohort: Use of propensity score techniques to account for exposure-related covariates. Symposium presentation. Substance Abuse Faculty/Fellows Training Seminar. May 2016, New York, NY.
4. Prescription Drug Monitoring Programs and Opioid Overdose: What do we know? What do we need to know? Symposium presentation. Annual pre-American Psychopathological Association (APPA) Meeting of T32 NIDA and NIMH Training Programs. February 2017, New York, NY.
5. Harm reduction or tool for initiation: Testing two models of e-cigarette and cigarette use in a high-risk longitudinal cohort. Symposium presentation. Substance Abuse Faculty/Fellows Training Seminar. May 2017, New York, NY.
6. Linking prescription opioid supply and macroeconomic conditions with overdose deaths: A theoretical framework. Symposium presentation. Substance Abuse Faculty/Fellows Training Seminar. April 2018, New York, NY.
7. Celebrity Suicide and News Media: Increase in Suicides the Months After the Death of Robin Williams in the U.S. Symposium presentation. Innovations in Translating Injury Research into Effective Prevention, 6th annual regional conference. May 2018, New York, NY.
8. Prescription drug monitoring programs and drug poisonings: What have we learned? What remains unknown? Invited presentation. CDC Region 2 Public Health Training Center: Log-in2learn Webinar Series. December 2018, New York, NY. Available at: <https://www.train.org/main/welcome>
9. Research that matters: Advancing science communication beyond news and public relations. Research Society on Alcoholism. June 2019, Minneapolis, MN.
10. Prescription drug monitoring programs and drug poisonings. Patients, Privacy, and PDMPs Policy Forum. October 2019, Cato Institute, Washington, DC. Available at: <https://www.cato.org/events/patients-privacy-and-pdmps>

RESEARCH EXPERIENCE

Case Western University Hospital Cleveland, OH

Epidemiologist, Ohio Army National Guard Mental Health Initiative (OHARNG MHI), PIs Sandro Galea, Joseph R. Calabrese, Marijo Tamburrino

August 2013-July 2020

Prepare data and perform statistical analyses on OHARNG MHI clinical sub-sample (N=671).

Clinical interviews were conducted annually for 4 years screening for diagnoses, including, but not

limited to PTSD, depression, and substance use disorders. Analyze and prepare results for publications. Assist junior research to publish through collaboration and assistance through the publication process.

**United States Army, Behavioral and Social Health Outcomes Program (BSHOP),
Epidemiology and Disease Surveillance Portfolio (EDS), United States Army Institute of
Public Health (USAPHC), Aberdeen Proving Grounds, MD**

Field Epidemiology Lead

September 2012-July 2013

Assist in the coordination, planning, and execution of research investigations, field studies, and program evaluations relate to psychiatric epidemiology. Develop surveys. Provide training and oversee data collection. Analyze data, interpret, and disseminate rates, trends, and determinants of psychiatric health and fitness of the Army. Oversee a staff of one PhD epidemiologist; two masters level epidemiologists, and a data technician.

**United States Army, Behavioral and Social Health Outcomes Program (BSHOP),
Epidemiology and Disease Surveillance Portfolio (EDS), United States Army Institute of
Public Health (USAPHC)**

Aberdeen Proving Grounds, MD

Epidemiologist/Analyst

November 2010-September 2012

Contribute to the design and execution of epidemiological surveillance, analytical projects, and behavioral and social health investigations such as suicide, domestic violence, and child abuse and homicide rates. Recommending preventative measures and conduct continuous surveillance of medical information databases. Manage and analyze large datasets (N=182,000) for a retrospective case-control study. Write scientific reports and manuscripts.

Veterans Administration

San Diego, CA

Research Manager—GS 9 Step 2, Marine Resilience Study, PIs Dewleen Baker, William Nash, Brett Litz

June 2009-October 2010

Managed the implementation of three components of a large integrated prospective study of active-duty Marines pre- and post- deployment. Oversaw off-site data collection on two military installations for extended time periods. Performed statistical analysis on a variety of data types, including: longitudinal, retrospective, and cross-sectional studies, with an emphasis on small sample sizes and non-parametric data. Examined studies with small sample applying bootstrapping methods combined with spline and mixed-method modeling. Handled multiple datasets to ensure consistency and accuracy. Wrote scientific manuscripts.

Veterans Administration

San Diego, CA

Research Associate-GS 9, Marine Resilience Study, PIs Dewleen Baker, William Nash, Brett Litz

October 2008-June 2009

Cleaned, merged and organized various datasets to ensure consistency and accuracy. Conducted bivariate and multivariate statistical tests on multiple datasets in SAS, including multiple regression and mixed modeling. Performed primary analysis on time-series drug trials and clinical research studies. Trained three new research assistants.