

Positions and Employment

2024-current	Research Instructor, Department of Obstetrics and Gynecology, University of North Carolina at Chapel Hill
2018-current	Adjunct Professor, Department of Public Health Leadership, Gillings School of Public Health, University of North Carolina at Chapel Hill, NC
2023-current	Data Matters Instructor, National Consortium of Data Science
2020-2024	Postdoctoral Research, Injury Prevention Research Center, University of North Carolina, Chapel Hill, NC
2018 - 2020	Postdoctoral Fellow, Program on Integrative Medicine, School of Medicine, University of North Carolina, Chapel Hill, NC
2018-2019	Adjunct Instructor, Department of Pharmacotherapy and Experimental Therapeutics, Eschelman School of Pharmacy, University of North Carolina, Chapel Hill, NC
2017 - 2018	Statistical Consultant, Odum Institute for Research, University of North Carolina, Chapel Hill, NC
2017 - 2017	Teaching Assistant, University of North Carolina, Chapel Hill, NC
2014 - 2014	Teaching Assistant, University of North Carolina, Chapel Hill, NC
2001 - 2011	Research Specialist, Center for Neurosensory Disorders, University of North Carolina, Chapel Hill, NC

Education

Postdoc 2021-2024	University of North Carolina , Chapel Hill, NC Injury Prevention Research Center Postdoctoral Research Fellow, Innovations in Suicide Prevention Research (INSPIRE) PIs: Brian Pence & Shabbar Ranapurwala
Postdoc 2018-2021	University of North Carolina School of Medicine , Chapel Hill, NC Program on Integrative Medicine, Department of Physical Medicine and Rehabilitation T32 Postdoctoral Fellow, National Institute of Complementary and Integrative Health PIs: Susan Gaylord & J Douglas Mann
PhD 2018	University of North Carolina School of Public Health , Chapel Hill, NC Epidemiology Advisors: Charles Poole & Gary Slade Dissertation title: <i>Pain-related disability among people with chronic orofacial pain</i>
MPH 2009	University of North Carolina School of Public Health , Chapel Hill, NC Public Health Leadership Master's thesis: <i>The role of age in temporomandibular disorder</i>
BA 2002	Antioch College , Yellow Springs, OH Bachelor of Arts in Self, Society and Culture

Teaching Experience

2018-present	<p>Adjunct Professor, Public Health Leadership Program, UNC Gillings School of Global Public Health</p> <p>Course: Quantitative Methods for Healthcare Professionals</p> <p>Course Description: Course is designed to meet the needs of health care professionals to appraise the design and analysis of medical and health care studies and who intend to pursue academic research careers. Covers basics of statistical inference, analysis of variance, multiple regression, categorical data analysis. 4 semesters, average enrollment: 50 students, 3 teaching assistants.</p>
Summer 2023	<p>Data Matters Instructor, National Consortium of Data Science</p> <p>Course: Basic Statistics in R</p> <p>Course Description: 2-day seminar of intensive introduction to univariate and bivariable statistical tests in R. Designed for new learners as well as people switching to R from SAS, Stata or SPSS. Enrollment: 30 students, 2 teaching assistants.</p>
Spring 2019	<p>Adjunct Instructor, Pharmacotherapy and Experimental Therapeutics, UNC Eshelman School of Pharmacy</p> <p>Course: Quantitative Methods in Clinical Research</p> <p>Course Description: Course reviews statistical concepts and discusses the most used statistical methods for analysis of data from clinical studies or research experiments. Designed for pharmacy students in the practice of pharmacy and to train graduate and postgraduate scientists in principles of translational research. 1 semester, enrollment: 9 students</p>
Fall 2017	<p>Teaching Assistant, Clinical Evaluation and Measurement in Epidemiology</p> <p>Course Director: Sonia Napravnik napravs@med.unc.edu</p> <p>Course Description: Broad-based introduction to the concepts and methods of epidemiology with particular emphasis on their application in clinical research, clinical practice, and health care policy (graduate level course).</p>
Fall 2014	<p>Teaching Assistant, Principals of Epidemiology for Public Health</p> <p>Course Director: Victor Schoenbach vjs@unc.edu</p> <p>Course Description: Introductory course to the basic concepts of epidemiology to multiple domains of public health.</p>

Teaching training

- Center for Faculty Excellence Pedagogy Reading Circle (meets weekly to discuss inclusive teaching strategies)
- Equity in Teaching Institute, December 2020 Cohort
- The inclusive STEM Teaching project, 6-week online course on inclusive STEM teaching practices, offered via edx.org

Publications *denotes in preparation

1. ***Miller V**, Barnhill J, Baez J, Castro G, Gardiner P, Gaylord S, Greco C, Faurot K, Nguyen T, Weinberg J, Morone N. Prevalence of Chronic Overlapping Pain Conditions among participants enrolled in a pragmatic trial of mindfulness for chronic low back pain: The OPTIMUM Study. (in-preparation).

2. **Miller V**, Pence B, Fitch K, Swilley-Martinez M, Kavee A, Cooper T, Keil A, Gaynes B, Carey T, Ranapurwala S. The impact of COVID19 lockdown on suicide rates in North Carolina: an interrupted time series. (under review)
3. **Miller V**, Pence B, Fitch K, Swilley-Martinez M, Agha E, Kavee A, Cooper T, Keil A, Gaynes B, Carey T, Ranapurwala S. Negative mental health outcomes and exposure to Hurricanes and flooding within the United States: systematic review. (under review)
4. Faurot K, Park J, **Miller V**, Honvoh G, Domenichiello A, Mann J, Gaylord S, Lynch C, Palsson O, Ramsden C, MacIntosh B, Horowitz M, Zamora D. (2023) Dietary fatty acids improved perceived sleep quality, stress, and health in migraine: secondary analysis of a randomized controlled trial. *Frontiers in Pain Research*, vol 4. <https://doi.org/10.3389/fpain.2023.1231054>
5. Roth I, TiedtM, **Miller V**, Barnhill, J Chilcoat A, Gardiner P, Faurot K, Karvelas K, Busby K, Gaylord S, Leeman J. (2023) Integrative Medical Group Visits for Patients with Chronic Pain: Results of a Pilot Single-Site Hybrid Implementation-Effectiveness Feasibility Study. *Frontiers in Pain Research*, vol 4. doi: 10.3389/fpain.2023.1147588.
6. Fitch KF, Pence BW, Swilley-Martinez ME, Kavee AL, **Miller VE**, Gaynes BN, Carey TS, Rosen SL, Brinkley-Rubinstein L, Peiper LJ, Proescholdbell SK, Ranapurwala SI. (2023) Suicide mortality in people formerly incarcerated in North Carolina prisons compared to the North Carolina general population, 2000-2020. *Am J Epidemiol*. Nov 3 doi: 10.1093/aje/kwad214. Epub ahead of print. PMID: 37939151.
7. Swilley-Martinez M, Coles S, **Miller V**, Alam I, Fitch K, Cruz T, Hohl B, Murray R, Ranapurwala S. "We adjusted for race" now what: A systematic review of operationalization and interpretation of race in *AJE* and *Epidemiology*, 2020-2021. (2023) *Epidemiol Rev*. 2023 Oct 3:mxad010. doi: 10.1093/epirev/mxad010. Epub ahead of print. PMID: 37789703.
8. Barnhill J, Roth I, **Miller V**, Baratta J, Chilcoat A, Kavalakatt B, Tiedt M, Thompson K, Gardiner P. (2023) Pilot observation study of patient reported outcome measures for Long COVID patients in virtual Integrative Medical Group Visits. *Global Advances in Integrative Medicine and Health*, vol 12. doi:10.1177/27536130231174236
9. **Miller V**, Pence B, Fitch K, Swilley-Martinez M, Kavee A, Dorris S, Cooper T, Keil A, Gaynes B, Carey T, Ranapurwala S. (2023) Hurricane Florence and suicide mortality in North Carolina: a controlled interrupted time-series analysis. *Injury Prevention*, vol 29(2). doi: 10.1136/ip-2022-044709 PMID: 36600665
10. Ranapurwala S, **Miller V**, Dorris S, Carey T, Gaynes B, Keil A, Fitch K, Goldston D, Kavee A, Swilley-Martinez M, Cooper T, Peiper L, Pence B. (2022) Innovations in Suicide Prevention Research (INSPIRE): Protocol for a population-based case-control study. *Injury Prevention*, Published Online First: 14 June 2022. doi: 10.1136/injuryprev-2022-044609 PMID: 35701110
11. Ramsden C, Zamora D, Faurot K, MacIntosh B, Horowitz M, Keyes G, Yuan Z, **Miller V**, Lynch C, Honvoh G, Park J, Levy R, Domenichiello A, Johnston A, Barrow D, Palsson O, Gaylord S, Mann J. (2021) Dietary alteration of n-3 and n-6 fatty acids for headache reduction in adults with episodic migraine: a randomized controlled trial. *BMJ*, vol 374. doi: <https://doi.org/10.1136/bmj.n1448> PMID: 34526307

12. Roth I, Tiedt M, Barnhill J, Karvelas K, Faurot K, Gaylord S, Gardiner P, **Miller V**, Leeman J. (2021) Feasibility of Implementation Mapping for Integrative Medical Group Visits. *Journal of Alternative and Complementary Medicine*, vol 27(S1): S71-S80. doi: 10.1089/acm.2020.0393. PMID: 33788606
13. **Miller V**, Faurot K, Palsson O, MacIntosh B, Suchindran C, Honvoh G, Gaylord S, Ramsden C, Mann. (2020) Comparing prospective headache diary and retrospective four-week headache questionnaire over 20 weeks: Secondary data analysis from a randomized controlled trial. *Cephalalgia*, vol 40(13):1523-1531. doi: 10.1177/0333102420949180. PMID: 32799667
14. **Miller V**, Chen D, Barrett D, Poole C, Golightly Y, Sanders A, Ohrbach R, Greenspan J, Fillingim R, Slade G. (2020) Understanding the relationship between features associated with pain-related disability in people with painful temporomandibular disorder (TMD): an exploratory structural equation modeling approach. *Pain*, vol 161(12):2710-2719. doi: 10.1097/j.pain.0000000000001976. PMID: 32639367
15. **Miller V**, Poole C, Golightly Y, Barrett D, Chen D, Ohrbach R, Greenspan J, Fillingim R, Slade G. (2019) Characteristics associated with high-impact pain in people with TMD: a cross-sectional study. *The Journal of Pain*, vol 20 (3): 288-300. doi: 10.1016/j.jpain.2018.09.007. PMID: 30292793
16. Chen H, Nackley A, **Miller V**, Diatchenko L, Maixner W. (2013) Multisystem dysregulation in people with temporomandibular disorders. *The Journal of Pain*, vol 14(9): 983-996. PMID: 23721875
17. Sanders AE, Essick GK, Fillingim R, Knott C, Ohrbach R, Greenspan JD, Diatchenko L, Maixner W, Dubner R, Bair E, **Miller VE**, Slade GD. (2013). Sleep apnea symptoms and risk of temporomandibular disorder: OPPERA Cohort. *Journal of Dental Research*, vol 92: S70- S77. PMID: 23690360.
18. Chen H, Slade G, Lim PF, **Miller V**, Maixner W, Diatchenko L. (2012). Relationship between temporomandibular disorders, widespread palpation tenderness, and multiple pain conditions: A case-control study, *The Journal of Pain*, vol 13(10): 1016-1027. PMID: 23031401
19. **Miller, V** (2012). Season variation in diet history interviews addressing only the past month, *American Clinical Journal of Nutrition*, vol 96(1): 219.
20. Sanders AE, Maixner W, Nackley A, Diatchenko L, By K, **Miller VE**, Slade G. (2011). Excess risk of temporomandibular disorder associated with cigarette smoking in young adults, *The Journal of Pain*, vol 13(1): 21-31. PMID: 22036516
21. Slade G, Bair E, By K, Mulkey F, Baraian C, Rothwell R, Reynolds M, **Miller V**, Gonzalez Y, Gordon S, Ribeiro-Dasilva M, Lim PF, Greenspan J, Dubner R, Fillingim RB, Diatchenko L, Maixner W, Dampier D, Knott C, Ohrbach R (2011). Study methods, recruitment, sociodemographic findings, and demographic representativeness in the OPPERA Study, *The Journal of Pain*, vol 12(11 supplement): T12-26. PMID: 22074749

22. Maixner W, Greenspan J, Dubner R, Bair E, Mulkey F, **Miller V**, Knott C, Slade G, Ohrbach R, Diatchenko L, Fillingim R. (2001). Potential autonomic risk factors for chronic TMD: Descriptive data and empirically identified domains from the OPPERA Case-Control Study, *The Journal of Pain*, vol 12(11 supplement): T75-T91. PMID: 22074754
23. Hollins M, Harper D, Gallagher S, Owings E, Lim PF, **Miller V**, Siddiqi M, Maixner W. (2009). Perceived intensity and unpleasantness of cutaneous and auditory stimuli: An evaluation of the generalized hypervigilance hypothesis, *Pain*, vol 141(3): 215-221. PMID: 19121558

Research Support

- 2021-current **Innovations in Suicide Prevention Research (INSPIRE)** 3R01MH124752
National Institute of Mental Health
Program Investigators: Brian Pence and Shabbar Ranapurwala
- 2022-current **Characterizing Chronic Overlapping Pain Conditions among people with chronic low back pain, including effect of Mindfulness Based Stress Reduction delivered in a group and relation to social determinants of health** 3UH3AT010621-04S1
National Center for Complementary and Integrative Health
Program Investigator: Jessica Barnhill
- 2018-2021 **T-32 Postdoctoral Research Fellowship** AT003378
National Center for Complementary and Integrative Health
Program Directors: Susan Gaylord and Doug Mann
- 2011-2016 **Training grant support T90** DE021986
NIH/NIDCR Training Program for the Next Generation of Oral Health Researchers (NextGen)
Program Director: Eric Everett
- 2008-2009 **US Public Health Service Traineeship**

Grant Applications

- 2022** ***Funded*** CDC Injury Prevention and Control Research and State and Community Based Programs
Title “Risk and protective factors of Polydrug Overdose in North Carolina”
Role: Co-Investigator
PI: Shabbar Ranapurwala
- 2021** ***Funded*** NINDS Supplement to HEAL OPTIMUM trial
Title “Characterizing Chronic Overlapping Pain Conditions among people with chronic low back pain, including effect of Mindfulness Based Stress Reduction delivered in a group and relation to social determinants of health.”
Role: Co-investigator
PI: Jessica Barnhill
- 2020** Sleep Innovation Research Grant
Title “Genetic factors influencing the relationship between sleep and pain”
Role: Principal Investigator

2012 Ruth L Kirschstein National Research Service Award for Individual Predoctoral Fellow (**F31**)
Title: "Relationship between Nutrition and Omega-3 Supplements on Orofacial Pain"
Role: Principal Investigator

Invited Manuscript Reviews

2013- The Journal of Pain
2013- Pharmacoepidemiology and Drug Safety
2014- Trials
2015- Complementary Therapies in Medicine
2019- British Journal of Nutrition
2019- Journal of Pain Research
2020- Evidence-Based Complementary and Alternative Medicine

Professional Honors/Awards

2019-2021 **NIH Loan Repayment Program award**
National Institute of Complementary and Integrative Medicine

2013 Clinical Research Award, 22nd Annual Meeting of the American Academy of Dental Sleep Medicine
2013 Clinical Excellence Award, 22nd Annual Meeting of the American Academy of Dental Sleep Medicine
2003 Best Scientific Poster, Society for Behavioral Medicine Meeting

Invited Lectures

2023 Pharmacotherapy and Experimental Therapeutics, UNC Eshelman School of Pharmacy
Course: Quantitative Methods in Clinical Research
Topics: Effect measure modification, assessing model fit

2022 Duke Clinical Research Institute, Musculoskeletal Research
Topic: Modeling pain-related disability

2021 Wingate University
Topic: Studying Pain in Public Health

2020 Elon University
Course: Senior Research Seminar
Topic: Pain and aging

Poster Presentations/Podium talks

Barnhill J, Baez J, Gardiner P, Greco C, Faurot K, Gaylord S, Harris E, Lawrence S, **Miller V**, Roth I, Sariahmed K, Thomas H, Weinberg J, Morone N. Findings from the incorporation of the Chronic Overlapping Pain Conditions Screening in the Optimum Trial, to be presented at the US Associations of Pain Annual Meeting, April 2024.

Miller V, Pence B, Fitch K, Swilley-Martinez M, Kavee A, Cooper T, Gaynes B, Carey T, Goldston D, Ranapurwala S. Suicide mortality increased after lifting the stay-at-home order in North Carolina: an interrupted time series analysis. Presented at the Society for Epidemiologic Research Conference, November 9, 2022.

Roth I, Barnhill J, **Miller V**, Chilcoat A, Tiedt M, Busby K, Gardiner P, Leeman J. Easing the Pain: Results of a pilot hybrid implementation-effectiveness study of Integrative Medical Group Visits for chronic pain. Presented at the 15th Annual Conference on the Science of Dissemination and Implementation in Health, Washington, DC, December 11-14, 2022.

- Miller V**, Ranapurwala S, Fitch K, Swilley-Martinez M, Kavee A, Dorris S, Keil A, Gaynes B, Carey T, Pence B. Did suicide rates increase in areas impacted by Hurricane Florence in North Carolina? A time series analysis, Society for Advancement of Violence and Injury Research Conference, Washington, DC March 30-April 1, 2022.
- Miller V**, Faurot K, Honvoh G, Palsson O, Gaylord S, Ramsden C, Mann D. Patterns of Headache, Trauma, and Comorbid Pain Among People with Migraine, International Association for the Study of Pain Virtual World Congress on Pain, virtual, June 2021.
- Roth I, Barnhill J, Gardiner P, Gaylord S, **Miller V**, Faurot K, Karvelas K, Leeman J, Tiedt. Implementing integrative medical group visits for patients with chronic pain: Approach and preliminary findings, Annual Meeting of the American Public Health Association, virtual, 2020.
- Miller V**, Chen DG, Barrett D, Ohrbach R, Slade G. Exploring the relationship between factors associated with pain-related disability in people with painful TMD: a structural equation modeling approach. Society for Epidemiologic Research Annual Meeting, Minneapolis, MN June 18-21 2019.
- Miller V**, Slade G, Ohrbach R, Poole C. Determinants of pain-related disability among people with chronic TMD: The OPPERA Study, 40th American Academy of Orofacial Pain Scientific Meeting, Lake Buena Vista, FL, 2016.
- Miller V**, Maixner W, Greenspan J, Fillingim R, Ohrbach R, Slade G. Selective Serotonin Reuptake Inhibitors (SSRIs) and experimental pain in healthy pain free participants: the OPPERA study, 33rd Annual Scientific Meeting of the American Pain Society, Tampa, FL, 2014.
- Essick G, Sanders A, **Miller V**, Slade G. Risk for obstructive sleep apnea and first-onset temporomandibular disorder, American Academy of Dental Sleep Medicine 22nd Annual Meeting, Baltimore, MD, 2013.
- Thieme K, **Miller V**. Pain inhibition in fibromyalgia, American Pain Society Annual Meeting, Austin, TX, 2011.
- Chen H, Slade G, Maixner W, **Miller V**, Diatchenko L. Widespread palpation tenderness is associated with multiple pain conditions in females with temporomandibular disorders, 30th Annual Scientific Meeting of the American Pain Society, Austin, TX, 2011.
- Miller VE**, Slade G, Diatchenko L, Maixner W. The role of age in TMD: A case-control study, International Association for the Study of Pain 13th World Congress on Pain, Montreal, Canada, 2010.
- Nackley A, Conrad M, Slade G, Smith S, Gibson D, Kasravi P, **Miller V**, Lim P, Maixner W, Diatchenko L. Cytokines associated with TMD case status and related intermediate phenotypes, 29th Annual Scientific Meeting of the American Pain Society, Baltimore, MD, 2010.
- Kasravi P, **Miller V**, Diatchenko L, Neely A, Smith S, Bair E, Maixner W. OPPERA: Pain Prospective Evaluation and Risk Assessment - A Study of Muscle, Joint and Jaw Function, Dental Research in Review, Chapel Hill, NC, 2009.
- Shad E, Siddiqi M, **Miller VE**, Gibson D, Lim PF, Arunasalam R, Kasravi P, Slade G, Neely A, Bair E, Maixner W, Diatchenko L. Candidate gene analysis of a persistent pain disorder, 12th World Congress on Pain, Glasgow, Scotland, 2008.
- Miller V**, Grewen K, Light KC. Men and Women in Better Partner Relationships Have Better Ambulatory Blood Pressure, Society for Behavioral Medicine Annual Meeting, 2003.
- Black M, Bragdon E, Light KC, Costello N, Brownley K, **Miller V**, Winfield J, Maixner W. Propranolol induces short-term reductions in clinical pain ratings in patients with fibromyalgia and temporomandibular disorder. 2002.