

Alexander S. Perlmutter, MPhil, MPH

*Curriculum vitae*

March 5, 2023

Target RWE  
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Experience

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2022-                      Senior Epidemiologist, Target RWE  
Manager: Julia Ward  
Remote (New York, NY)

- Epidemiology lead on advanced non-small cell lung cancer (advNSCLC) project using real-world Flatiron Health data
  - Designed study of overall survival following entry into care for advNSCLC and initiation of first- through fourth-line therapy
  - Featured over 40 filters/stratifications (index date, treatment category, sociodemographics, ECOG, smoking history, positive biomarkers, etc.)
  - Implemented staged plan to continuously refresh study as new data is recorded, update baseline windows for ECOG and calendar period comparisons, and stratify analyses by entry into care definition (diagnosis date vs. first structured activity).
  - Wrote and updated executive summary.
  - Presented findings to client via videoconference every one to three months using proprietary population health report interface.
- Epidemiology lead on community insights dermatology projects
  - Built cohorts to evaluate dermatology progression and treatment based on real-world clinical data.

- Descriptively analyzed dermatology cohort data.
- Developed epidemiologic studies and statistical analysis plans based upon insights from industry partners.
- Conducted planned analyses.
- Epidemiology lead on warm autoimmune hemolytic anemia project (wAIHA)
  - Redrafted previously written epidemiology report based on clinical, regulatory, and business development input.
  - Developed research protocol to study rare disease that could serve as external control for regulatory submission of investigational new drug.
    - Client postponed work until 2024 due to macroeconomic climate.

## Education

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2017-2023	PhD in Epidemiology, Columbia University Dissertation sponsor: Kara Rudolph, PhD Dissertation title: Examining vaping's possible unintended consequences on cannabis and other substance initiation Mailman School of Public Health New York, NY
2016-2020	Trainee/Researcher, Université Paris Descartes, METHODS Team, Centre de Recherche d'Épidémiologie et Statistiques Paris, France
2014-2016	MPH in Epidemiology, Columbia University Mailman School of Public Health New York, NY

## Research Support

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5T32DA031099-03:  
Epidemiology of Substance Use Disorders Training Program at Columbia University

Principal Investigators: Hasin, Deborah S.; Martins, Silvia M.  
Columbia University  
New York, NY, United States

## Publications

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### Peer-reviewed articles

1. Gutkind S, Askari M, **Perlmutter AS**, Nesoff E, Mauro PM, Martins SM. Associations between relative deprivation with opioid use among working-age adults during the great recession. *J. Psychiatr. Res.* 2023;160.  
doi:10.1016/j.jpsychires.2023.02.010
2. Mielenz TJ, Tian J, Silverman KD, Whalen AM, Kanno S, Durbin LL, **Perlmutter AS**, Xue QL. The association of pain levels and physical inactivity among older women. *Geriatrics.* 2021;6(103).  
doi:10.3390/geriatrics6040103
3. **Perlmutter AS**, Benchoufi M, Ravaud P, Tran VT. Identification of patient perceptions that can affect the uptake of interventions using Biometric Monitoring Devices: a systematic review of randomized controlled trials. *J Med Internet Res.* 2020;22:9.  
doi:10.2196/18986
4. **Perlmutter AS**, Rivera-Aguirre AE, Mauro PM, et al. Sex differences in nonmedical prescription tranquilizer and stimulant use trends among secondary school students in Argentina, Chile, and Uruguay. *Drug Alcohol Depend.* 2019;205:107607.  
doi:10.1016/j.drugalcdep.2019.107607
5. Mauro PM, Santaella-Tenorio J, **Perlmutter AS**, Hasin DS, Mauro CM, Martins SS (2018). Correct knowledge of medical cannabis legal status in one's own state: Differences between adolescents and adults in the United States, 2004–2013. *Addict. Behav.*;88:23-8.  
doi:10.1016/j.addbeh.2018.07.021
6. Martins SS, Segura LE, Santaella-Tenorio J, **Perlmutter AS**, Fenton MC, Cerda M, Keyes KM, Ghandour LA, Storr CL, Hasin DS (2017)

Prescription opioid use disorder and heroin use among 12-34-year-olds in the United States from 2002 to 2014. *Addict behav.*; 65:236-241.

doi:10.1016/j.addbeh.2016.08.033

7. **Perlmutter AS**, Tran VT, Dechartres A, Ravaud P (2016) Comparison of primary outcomes in protocols, public clinical-trial registries and publications: the example of oncology trials. *Ann Oncol* 1;28(4):688-695.  
doi:10.1093/annonc/mdw682
8. **Perlmutter AS**, Conner SC, Savone M, Kim JH, Segura LE, Martins SS (2016) Is employment status in adults over 25 years old associated with nonmedical prescription opioid and stimulant use? *Soc Psychiatry Psychiatr Epidemiol*;52(3):291-298.  
doi:10.1007/s00127-016-1312-6

## Book Chapters

1. Chen L-Y, **Perlmutter AS**, Segura L, Santaella-Tenorio J, Schleimer JP, Mendez M, et al. Nonmedical Prescription Drug Use in Adolescents and Young Adults. The Prescription Drug Abuse Epidemic: Incidence, Treatment, Prevention, and Policy. Santa Barbara: ABC-CLIO; 2018. p. 83-114.

## Review Papers

1. **Perlmutter AS**, Bauman M, Mantha S, Segura LE, Ghandour L, Martins SS (2018) Nonmedical Prescription Drug Use Among Adolescents: Global Epidemiological Evidence for Prevention, Assessment, Diagnosis, and Treatment. *Curr Addict Rep* 5(2):120-7.  
doi:10.1007/s40429-018-0194-y.

## In Preparation/Under Review

1. **Perlmutter AS**, Keyes KE, Giovenco D, Martins S, Rudolph K. Does nicotine vaping affect cannabis and other substance initiation from adolescence into young adulthood? Results from Wave 1 (2013-14)

to Wave 5 (2018-19) of the Population Assessment of Tobacco and Health Study.

2. **Perlmutter AS**, Keyes KE, Giovenco D, Martins S, Rudolph K. Do conduct problems mediate the effects of nicotine vaping on cannabis and other substance initiation? Results from Wave 1 (2013-14) to Wave 5 (2018-19) of the Population Assessment of Tobacco and Health Study.
3. **Perlmutter AS**, Keyes KE, Giovenco D, Martins S, Rudolph K. Does current evidence support harmful effects of nicotine vaping on cannabis and other substance use risks? A systematic review

## Invited Talks

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| 2022 | Examining vaping's possible unintended consequences on cannabis and prohibited substance initiation. American Psychopathological Association. New York, New York.                                    |
| 2018 | Sex differences in nonmedical prescription tranquilizer and stimulant use among secondary school students in Argentina, Chile, and Uruguay. Society for Epidemiologic Research. Baltimore, Maryland. |

## Conference Presentations

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| 2020 | Do asthma emergency department visits depend on electronic smoking device availability in California counties from 2013 to 2016? Society for Epidemiologic Research. Online.                  |
| 2020 | Do asthma emergency department visits depend on electronic smoking device availability in California counties from 2013 to 2016? American Psychopathological Association. New York, New York. |
| 2020 | The association between prescription opioid misuse and suicidality in United States adolescents: NSDUH 2015-  |

2017. American Psychopathological Association. New York, New York.
- 2019      Assessment of patient perceptions of interventions using biometric monitoring devices in randomized controlled trials: a systematic review. Society for Epidemiologic Research. Minneapolis, Minnesota.
- 2019      Nonmedical prescription opioid Use, heroin use, and cardiovascular disease. Society for Epidemiologic Research. Minneapolis, Minnesota.
- 2019      Medical marijuana use and trouble with the law: Does living in a state with a medical marijuana law modify the relationship? College on Problems of Drug Dependence. San Antonio, Texas.
- 2018      Sex differences in nonmedical prescription tranquilizer and stimulant use among secondary school students in Argentina, Chile, and Uruguay. College on Problems of Drug Dependence. San Diego, California.
- 2017      Associations between past-year marijuana use, arrests, and race/ethnicity among 18-49-year-olds in the United States, 2002-2015. College on Problems of Drug Dependence. Montreal, Quebec.
- 2015      Is employment status in adults over 25 years old associated with nonmedical prescription opioid and stimulant use? Association for Medical Education and Research in Substance Abuse, Washington, D.C.

### Journal reviewer

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- 2021-      Drug and Alcohol Dependence  
2 review completed
- 2020-      Journal of Studies on Alcohol and Drugs  
2 reviews completed

2020- Journal of Drug Issues  
1 review completed

## Awards

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2019 3<sup>rd</sup> Place Poster  
Assessment of patient perceptions of interventions using biometric monitoring devices in randomized controlled trials: a systematic review. Society for Epidemiologic Research. Minneapolis, Minnesota.  
Publication: doi:10.2196/18986

## Fellowships

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2017-present 5T32DA031099-03: Epidemiology of Substance Use Disorders Training Program  
PI: Hasin, Deborah S.  
Columbia University, New York, NY, United States

2016-2017 Cofund INSPIRE – European Union Horizon 2020 Marie Skłodowska-Curie Action  
Université Paris Diderot, Paris, France

## Research positions

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2021 Research assistant, Causal inference course preparation.  
Rudolph, Kara. Columbia University, New York, NY

2019-2020 Research assistant, Grant proposal preparation. PI:  
Martins, Silvia. Columbia University, New York, NY

2018 Research assistant, Longitudinal Research on Older Adult Drivers (LongROAD), AAA. PI: Li, Guohua, Supervisor: Thelma Mielenz. Columbia University, New York, NY

- 2018 Research assistant, Publication preparation for aging and pain research project, Supervisor: Thelma Mielenz. Columbia University, New York, NY
- 2017-2019 Research assistant, Health and social consequences of national marijuana legalization, 1R01DA040924-01A1. PI: Cerda, Magdalena. University of California Davis, Davis, CA
- 2016-2018 Research assistant, State medical marijuana laws and NSDUH marijuana use and consequences since 2004, 5R01DA037866-04. PI: Martins, Silvia. Columbia University, New York, NY
- 2015-2016 Research coordinator, World Trade Center Heart Study, 1U01-OH010722-01. Co-PIs: Morabia, Alfredo; Desvarieux, Moise. CUNY – Queens College, New York, NY

## Teaching positions

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### Adjunct professor

- 2020-2021 GPH-GU 2106: Epidemiology, New York University, School of Global Public Health, undergraduate introductory course, spring

### Teaching assistant

- 2022 P9440: Applying the Causal Roadmap to Single Timepoint and Longitudinal Data, Columbia University, Department of Epidemiology, PhD course, spring



2021	P6400 Epi I: Principles of Epidemiology, Columbia University, Department of Epidemiology, MS course, fall
2018-2021	P8400 Epi III: Applied Epidemiologic Analysis, Columbia University, Department of Epidemiology, second-year full-time MPH/part-time executive MPH course, fall, summer
2019-2021	P8490 Tutorial in Epidemiology, Columbia University, Department of Epidemiology, first- and second-year full-time MPH course, fall, spring, and summer
2019	P9400 Epi II: Design and Conduct of Observational Epidemiology, Columbia University, Department of Epidemiology, first-year full-time MPH course, spring
2019	P8440 Epidemiology of Cardiovascular Disease, Columbia University, Department of Epidemiology, chronic disease epidemiology required course, spring
2018	P9400 Epi IV: Critical thinking in Epidemiology, Columbia University, Department of Epidemiology, second-year executive MPH course, spring