

John Lewis Ferrand, MPH

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EDUCATION

Indiana University School of Public Health - Bloomington, Bloomington, IN 2019 - Present

Doctor of Philosophy in Public Health

Health Behavior Track

Dissertation: *Facilitators and Barriers to Pre-Exposure Prophylaxis (PrEP)*

Provision and Use in a Midwest College Health Center: A Mixed Method Study

San Diego State University/University of California Joint-Doctoral Program in Public Health, San Diego, CA 2018 - 2019

Doctor of Philosophy in Public Health

Health Behavior Track

Transferred with advisor to Indiana University

San Diego State University, School of Public Health, San Diego, CA 2016 - 2018

Master of Public Health

Concentration: Health Promotion and Behavioral Science

Thesis: *Condom application skills and self-efficacy in youth: A systematic review and meta-analysis*

Loyola University Maryland, Baltimore, MD 2010 - 2014

Bachelor of Arts in Psychology

Minor: Marketing

PUBLICATIONS

1. **Ferrand, J.**, Walsh-Buhi, E., Dodge, B., Svetina, D., & Herbenick, D. (under review). Variations in pre-exposure prophylaxis (PrEP) awareness and healthcare provider interactions in a nationally representative sample of American men aged 15-49 years: A cross-sectional study.
2. **Ferrand, J.**, Owora, A., Houghton, R., & Walsh-Buhi, E. (under review). Prevalence and correlates of withdrawal as a mode of contraception in a nationally representative sample adolescents and young adults: A cross-sectional examination.
3. Anderson, P., Coyle, K., Guinosso, S., **Ferrand, J. L.**, Owora, A., Fagen Houghton, R. F., & Walsh-Buhi, E. (2021). Promoting adolescent healthy relationships (The About Us Program): Protocol for a randomized clinical trial. *JMIR Research Protocols*, 10(9), e30499. doi: 10.2196/30499
4. Walsh-Buhi, E.R., Houghton, R.F., Lange, C., Hockensmith, R., **Ferrand, J.**, & Martinez, L. (2021). Pre-exposure prophylaxis (PrEP) information in Instagram: A content analytic study. *JMIR Public Health and Surveillance*. 29/05/2021:23876
5. **Ferrand, J. L.**, Blashill, A. J., Corliss, H. L., & Walsh-Buhi, E. R. (2021). Condom application skills and self-efficacy in youth: A systematic review and meta-analysis. *Plos one*, 16(4), e0249753.
6. Hawks, J. R., Nara, A., Wells, K. J., **Ferrand, J. L.**, & Walsh-Buhi, E. R. (2020). Gardasil on Twitter: A Content Mining Study Examining Message, Context, and Source Characteristics of Human Papilloma Virus (HPV) Vaccine-Related Tweets. *Health*, 12(9), 1105-1120.
7. **Ferrand, J.**, Hockensmith, R., Houghton, R. F., & Walsh-Buhi, E. R. (2020). Evaluating Smart Assistant Responses for Accuracy and Misinformation Regarding Human Papillomavirus Vaccination: Content Analysis Study. *Journal of Medical Internet Research*, 22(8), e19018. <http://dx.doi.org/10.2196/19018>.
8. Fawley-King, K., Trask, E. V., **Ferrand, J.**, & Aarons, G. A. (2020). Caregiver strain among

biological, foster, and adoptive caregivers caring for youth receiving outpatient care in a public mental health system. *Children and Youth Services Review*, 111, 104874.

<https://doi.org/10.1016/j.chilyouth.2020.104874>.

9. Green, A. E., **Ferrand, J.**, & Aarons, G. A. (2016). Functioning among youth with comorbid mood disorder and chronic physical illness in public sector care. *Journal of Developmental & Behavioral Pediatrics*, 37(8), 637-646. <http://dx.doi.org/10.1097/DBP.0000000000000336>.

SCIENTIFIC MEETINGS

- 2022 **Ferrand, J.**, Walsh-Buhi, E., Dodge, B., Svetina, D., & Herbenick, D. (2022, November). *Variations in pre-exposure prophylaxis (PrEP) awareness and healthcare provider interactions in a nationally representative sample of American men aged 15-49 years: A cross-sectional study*. The Society for the Scientific Study of Sexuality 2022 Annual Meeting. Vancouver, BC.
- 2021 **Ferrand, J.**, Owora, A., & Walsh-Buhi, E. (2021, October) *Trends and updated correlates of withdrawal as a mode of contraception in a nationally representative sample of youth*. The American Public Health Association 2021 Annual Meeting. Denver, CO.
- 2020 **Ferrand, J.**, Owora, A., Houghton, R., & Walsh-Buhi, E. (2020, November). *Prevalence and Correlates of Withdrawal as a Contraceptive Method in a Nationally Representative Sample of Americans Aged 15-24 Years*. The Society for the Scientific Study of Sexuality 2020 Global Sex Research Virtual Conference.
- Ferrand, J.**, Walsh-Buhi, E., Houghton, R., Guinosso, S., Coyle, K., & Anderson, P. (2020, October) *Utilization of school-based health center sexual health services by Latinx adolescents*. The American Public Health Association 2020 Annual Meeting. Virtual.
- Ferrand, J.**, Hockensmith, R., Houghton, R. F., & Walsh-Buhi, E. R. (2020, October). *Evaluating Smart Assistant Responses for Accuracy and Misinformation Regarding Human Papillomavirus Vaccination: Content Analysis Study*. The American Public Health Association 2020 Annual Meeting. Virtual.
- Ferrand, J.**, Hockensmith, R., Houghton, R. F., & Walsh-Buhi, E. R. (2020, September). *"Alexa, does the HPV vaccine cause autism?": Evaluating Smart Assistant Responses for Accuracy and Misinformation*. The 2020 STD Prevention Conference. Virtual.
- Ferrand, J.**, Walsh-Buhi, E. R., Houghton, R., Guinosso, S., Coyle, K., & Anderson, P. (2020, April) *Condom use errors and problems encountered by Latinx adolescents*. Indiana University Bloomington School of Public Health Research Day. Bloomington, IN.
- 2018 **Ferrand, J.**, Blashill, A., Corliss, H., Roach, M., & Walsh-Buhi, E. (2018, November). *Condom use skills and self-efficacy in youth: A systematic review and meta-analysis*. The American Public Health Association 2018 Annual Meeting. San Diego, CA.
- Ferrand, J.**, Blashill, A., Corliss, H., Roach, M., & Walsh-Buhi, E. (2018, April). *Condom use skills and self-efficacy in youth: A systematic review and meta-analysis*. The Society for the Scientific Study of Sexuality (SSSS) and San Diego State University (SDSU) Symposium: Sexuality Research Across Disciplines. San Diego, CA.
- 2017 Buhi, E. R., Greenstadt, E., Coyle, K., Anderson, P., Guinosso, S., **Ferrand, J.**, & Roach, M. (2017, November). *An evaluation protocol for About Us, an innovative intervention promoting positive adolescent romantic relationships and use of condoms and highly effective contraceptives*. The Society for the Scientific Study of Sexuality 2017 Annual Meeting. San Juan, PR.
- 2016 **Ferrand, J. L.**, Torres, E. M., Green, A. E., & Aarons, G. A. (2016, December). *Sustainment Leadership Predicts More Positive Attitudes Towards Evidence-Based Practice over Time*. 9th Annual Conference on the Science of Dissemination and Implementation. Washington, D.C.
- 2013 McCurdy, M., Bellows, A., **Ferrand, J.**, Kline, T., Morris-Berry, C., Singer, H. S., & Mahone, E. M. (2013, October). *Social Cognition, Repetitive Behavior, and ADHD Symptoms among Children with Primary Complex Motor Stereotypies*. International Neuropsychological

Society Annual Meeting. Seattle, WA.

2012 **Ferrand, J.**, Wolkoff, K., Mitchell, W., & Corral, L. (2012, April). *Gender and the Bystander Effect*. Loyola University Maryland Undergraduate Student Research and Scholarship Colloquium. Baltimore, MD.

RESEARCH EXPERIENCE

Indiana University, Bloomington, IN

Indiana University School of Public Health - Bloomington

2019 - Present

Principal Investigator: Eric Walsh-Buhi, Ph.D.

- Lead the conceptualization, data collection, analysis, and manuscript development of a study examining the accuracy, misinformation, and sentiment present in smart assistant responses to queries regarding the human papillomavirus vaccination.
- Conduct an analysis of a nationally representative data set to examine the trends and correlates of withdrawal use as a contraceptive method in Americans aged 15-24 years from 2011-2017 and developed a manuscript.
- Carry out a content analysis of PrEP-related Instagram posts to better describe the source and content characteristics of individuals and organizations creating these posts. The results have been published in a peer-reviewed publication.
- Analyze survey data from students at school-based health centers (SBHC) in California to determine their self-reported attitudes, intentions, and barriers toward receiving sexual health services at these SBHCs. The results are being drafted into a manuscript for submission to a peer-reviewed journal.
- Direct an analysis of pre-exposure prophylaxis (PrEP) use in a nationally representative sample of American men aged 15-49 years. Results were stratified using the sex of the respondent's previous sexual contacts to identify how sexual behavior (as opposed to sexual identity) is associated with PrEP use. The results are currently under review at a peer-reviewed publication.
- Develop a mixed method study of pre-exposure prophylaxis (PrEP) provision and use in a Midwest college health center as part of my doctoral dissertation. I will utilize qualitative interviews and survey responses from both students and service providers to identify and describe the facilitators and barriers to PrEP use in college settings. A proposal for funding is under review at Gilead Sciences, Inc. This project is currently underway and results are forthcoming.

San Diego State University, San Diego, CA

San Diego State University Research Foundation

2016 – 2019

Principal Investigator: Eric Walsh-Buhi, Ph.D.

About Us Program

- Evaluated a program designed to increase sexual health knowledge and behavior and to encourage healthy romantic relationships in students at California high schools.
- Developed the data collection protocol and training handbook to be used by front-line data collection staff for administering baseline and follow-up surveys.
- Created surveys to assess youth sexual health behaviors and healthy relationship experiences using validated and novel measurement instruments.
- Developed and administered surveys to school-based health center sites to assess program implementation and evaluation readiness.
- Conducted cognitive interviews with youth to determine age appropriateness of terminology and item phrasing.
- Piloted youth surveys in settings similar to our implementation environment.
- Programmed and maintained tablets for use in data collection activities during evaluation.
- Screened and interviewed potential Evaluation Data Collectors (EDC).
- Organized and lead training seminars for EDC.
- Managed Qualtrics surveys for various data collection time points.
- Built databases to track survey data from enrolled participants and maintain consistent contact with them throughout study period.
- Assisted program manager in managing EDC concerns and work performance.

CBPR Project to Reduce STI and HIV/AIDS Incidence in the South Bay Region

- Compiled background literature and epidemiological data on current sexually transmitted infections (STI) and HIV/AIDS incidence in our proposed catchment area for grant submission.
- Administered demographic surveys to community members involved in the project.
- Created logic models and timelines for project implementation upon grant award.

Well-Being and Health Promotion Department

2016 – 2017

Supervisor: Stephanie Waits-Galia, M.P.H., C.H.E.S., F.P.H.W.

- Led the evaluation of a campus sexual assault prevention program delivered to members of fraternities, sororities, and athletic organizations.
- Managed the evaluation of a program designed to reduce excessive alcohol consumption at fraternity sponsored social events.
- Administered and analyze pre- and post-surveys to assess changes in knowledge, attitudes, and behaviors resulting from involvement in the program.
- Generated reports of results to disseminate findings and to make recommendations for program improvement.
- Conducted focus groups and interviews with participants to collect qualitative data about program effectiveness.

University of California San Diego, San Diego, CA

2014 – 2017

Principal Investigator: Gregory Aarons, Ph.D.

Child and Adolescent Services Research Center

Organizational Readiness for Innovation II (ORIN II)

- Oversaw day to day operations of a study identifying factors that either support or limit sustainment of an evidence-based practice (EBP) for reducing child neglect and maltreatment across 11 service systems in two states.
- Constructed annual web-survey in Qualtrics, tracking participant information, troubleshoot survey issues, incentivizing participants, and cleaning and organizing the data after each wave of collection
- Collected session data from EBP providers every month to assess fidelity to the manualized intervention and enter the information into a database
- Maintained multiple large data sets and tracking documents, and download, merge, clean, organize, and analyze the data using SPSS
- Updated project website content, formatting, and functionality using HTML/CSS
- Conducted literature reviews for paper and conference submissions
- Assisted in the development of scientific manuscripts

System of Care Evaluation (SOCE)

- Supported an evaluation of a clinical intervention for suicide risk assessment by conducting literature reviews of relevant publications, investigating potential instruments to measure suicidal risk, and representing our team at related discussions
- Assisted in the design and evaluation of a clinical intervention to increase the use of therapeutic homework in San Diego county behavioral health treatment programs by creating, distributing, and analyzing baseline intervention measurements, compiling and assessing various homework resources for potential use in the intervention, coordinating a junior research assistant's support efforts, and reporting on the results to county stakeholders
- Input and code raw data in the form of patient comments that will be used to evaluate the Behavioral Health Services (BHS) system of care in San Diego County
- Reviewed incoming patient questionnaires for completion as well as to identify instances of concern such as suicidal ideation or self-harm
- Transcribed audio from focus groups conducted with caregivers who are fostering children and/or adolescents with mental illness

- Generated and proofread detailed reports of program demographics and outcomes for submission to the county

Innovations Evaluation

- Evaluated seven innovative behavioral health programs in San Diego county to identify the best practices of the intended intervention and treatment methods
- Created or review appropriate instruments to measure the unique domains targeted by each program
- Scheduled and participate in meetings with researchers, county employees, and program supervisors
- Coordinated data collection processes with each of the programs as well as manage, analyze, and report on collected data
- Organized data collection training sessions for behavioral health providers in each of the innovative programs

***Kennedy Krieger Institute*, Baltimore, MD**

Neuropsychology Research Lab

2013 – 2014

Supervisor: Alison Pritchard, Ph.D.

- Conducted a study investigating the adaptive and emotional functioning of children prenatally exposed to alcohol
- Received training in facial analysis software and scored pertinent parent and teacher measures.
- Used clinical data composed of parent and teacher ratings to examine the difference in kindergarten ages for those with and without learning disabilities and ADHD diagnoses.
- Involved in a study of social cognition, repetitive behavior, and ADHD symptoms in children with primary complex motor stereotypies. Responsible for composing the abstract to be submitted for conference approval as well as organizing the poster.
- Initiated a study on the topic of discrepancies in patient records across multiple modalities in an effort to identify areas of patient care that could use improvement.
- Collected and analyzed data from study participants which involved scoring measures, entering the scores into a database, and using appropriate analysis software to examine the data (SPSS, Stata, Excel).
- Developed and utilized basic scoring programs to be used for expediting the scoring of certain measures.

Center for Autism Related Disorders (C.A.R.D.)

2013 – 2014

Supervisor: Ericka Wodka, Ph.D.

- Examined approximately 1,000 patient files from the electronic health records (EHR) system to be used in a study examining differences in behavioral and adaptive profiles among children diagnosed with autism spectrum disorders, attention-deficit/hyperactivity disorder, or anxiety disorder.
- Extracted relevant information (e.g. demographics, parent ratings, cognitive functioning assessments, etc.) from the database for use in the study.
- Observed and analyzed clinical evaluations and assessments of children with pervasive developmental disorders.

***Loyola University Maryland*, Baltimore, MD**

Psychology Department

2013 – 2014

Supervisors: Jason Prenoveau, Ph.D., & Matthew Kirkhart, Ph.D.

- Served as lead research assistant on a study of implicit learning and goal priming.
- Learned how to program DirectRT in order to deliver stimuli and record participant reaction times.
- Responsible for running participants through the study including informed consent, debriefing, and compensation.

Supervisor: Sarah Tafeen (Doctoral Candidate)

- Partnered with the Johns Hopkins Bloomberg School of Public Health to conduct research on how yoga and meditation influence mindfulness, depression, anxiety, and numerous other constructs in at-risk public school students.
- Assisted in building the questionnaire for the study by identifying established measures of specific constructs to be used in the study and modifying the measures to be developmentally appropriate.
- Piloted the questionnaire before beginning the study.
- Administered survey to public high school students and managed the resulting data files.

Kennedy Krieger Institute, Baltimore, MD

Behavior Management Clinic

January 2013 – August 2013

- Worked with children and adolescents to modify problem behavior (including aggression, noncompliance, defiance, etc.) through empirically supported treatment methods (e.g. parent child interaction therapy, parent training techniques).
- Observed and participated in behavioral management techniques and analogues.
- Analyzed parent behavior ratings in conjunction with clinician observations for use in subsequent treatment.
- Scored parent, teacher, and self-report measures (e.g. BASC, BRIEF, ABAS) and created addendums for patients.

TEACHING EXPERIENCE

Indiana University, Bloomington, IN

Indiana University School of Public Health - Bloomington

- SPH-H 350: Writing in Public Health Spring 2022, Fall 2022
 - Upper-level undergraduate students are instructed on writing and media engagement strategies that pertain exclusively to the health discipline.
- SPH-H 494: Research and Evaluation Methods in Public Health Spring 2022
 - Upper-level undergraduate students are instructed on ways to integrate research designs, methods, and instruments into public health assessments as well as how to develop and implement a research plan related to a public health issue.

San Diego State University, San Diego, CA

School of Public Health

- PH 490B: Planning Public Health Programs Fall 2022
 - Upper-level students learn about public health programming models, including community needs assessment, goals, objectives, and strategies for effective public health interventions. Students will also be instructed on how to prepared grant proposals and how to develop and implement public health programs in community settings.

PROFESSIONAL AFFILIATIONS

American Public Health Association – APHA

Society for the Scientific Study of Sexuality – SSSS

International Academy of Sex Research - IASR

HONORS AND AWARDS

2015 Poster Selected for SLAM Presentation at 9th Annual Conference on the Science of Dissemination and Implementation