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EDUCATION

- 2017 **University of California, Berkeley School of Public Health**, Berkeley, CA
PhD, Environmental Health Sciences
- 2012 **University of California, Berkeley School of Public Health**, Berkeley, CA
MPH, Environmental Health Sciences
- 2004 **University of California, Berkeley, College of Natural Resources**, Berkeley, CA
BS, Molecular Environmental Biology

ACADEMIC APPOINTMENTS

- 2021 – Present **Assistant Professor**
Department of Health Sciences and
Department of Civil and Environmental Engineering
Northeastern University, Boston, MA
Core Faculty, Social Science Environmental Health Research Institute
Faculty Scholar, Institute for Health Equity and Social Justice Research

OTHER RESEARCH AND PROFESSIONAL EXPERIENCE

- 2020 – 2021 **Research Scientist III**
Epidemiology and Biostatistics, Safer Alternatives Assessment and
Biomonitoring Section, Reproductive and Cancer Hazard Assessment
Branch, Office of Environmental Health Hazard Assessment, California
Environmental Protection Agency, Oakland, CA
- 2017 – 2020 **Postdoctoral Scholar**
Environmental Epidemiology and Biostatistics, Program on Reproductive
Health and the Environment (PRHE), University of California, San
Francisco (UCSF) Medical Center, San Francisco, CA
- 2010 – 2017 **Graduate Student Researcher**
Professor Rachel Morello-Frosch (Advisor), University of California,
Berkeley (UCB), School of Public Health (SPH), Division of Environmental
Health Sciences, Berkeley, CA
- 2012 – 2014 **Laboratory Research Assistant**
Department of Toxic Substances and Control (DTSC), California
Environmental Protection Agency, Berkeley, CA
- 2011 – 2014 **Research Coordinator**
Cancer Prevention Institute of California (CPIC), Berkeley, CA
- 2005 – 2010 **Program Associate and Fertility/Reproductive Health Working Group
Coordinator**
Collaborative on Health and the Environment (CHE), Bolinas, CA

2004 – 2005	Junior Research Specialist Nutritional Sciences & Toxicology Laboratory, University of California, Berkeley, Berkeley, CA
2002 – 2004	Re-USE Program/Outreach Manager Campus Recycling and Refuse Services, University of California, Berkeley (UCB)
2003	Intern Global Alliance for Incinerator Alternatives (GAIA), Berkeley, CA

PUBLICATIONS

Peer-Reviewed Articles

1. **Varshavsky J.R.**, Rayasam S.D.G., Sass J.B., Axelrad D.A., Cranor C.F., Hattis D., Hauser R., Koman P.D., Marquez E.C., Morello-Frosch R., Oksas C., Patton S., Robinson J.F., Sathyanarayana S., Shepard P.M., Woodruff T.J., Current practice and recommendations for advancing how human variability and susceptibility are considered in chemical risk assessment. *Environmental Health*, January 12, 2023, 21 (Suppl 1), 133.
<https://doi.org/10.1186/s12940-022-00940-1>
2. Woodruff, T.J., Rayasam, S.D.G., Axelrad, D.A., Koman, P. D., Chartres, N., Bennett, D. H., Birnbaum, L. S., Brown, P., Carignan, C. C., Cooper, C., Cranor, C. F., Diamond, M. L., Franjevic, S., Gartner, E. C., Hattis, D., Hauser, R., Heiger-Bernays, W., Joglekar, R., Lam, J., Levy, J.I., MacRoy, P.M., Maffini, M.V., Marquez, E.C., Morello-Frosch, R., Nachman, K.E., Nielsen, G., Oksas, C., Abrahamsson, D.P., Patisaul, H.B., Patton, S., Robingon, J.F., Rodgers, K.M., Rossi, M.S., Rudel, R.A., Sass, J.B., Sathyanarayana, S., Schettler, T., Shaffer, R.M., Shamasunder, B., Shepard, P.M., Shrader-Frechette, K., Solomon, G.M., Subra, W.A., Vandenberg, L.N., **Varshavsky, J.R.**, White, R.F., Zarker, K., Zeise, L., A science-based agenda for health-protective chemical assessments and decisions: overview and consensus statement. *Environmental Health*, January 12, 2023, 21 (1), 132.
<https://doi.org/10.1186/s12940-022-00930-3>
3. Garrett K.K., Brown P.B., **Varshavsky J.R.**, Corder A., Challenges and opportunities in a world of “forever chemicals”, *One Earth*, October 21, 2022, 5(10):1075-1079.
<https://doi.org/10.1016/j.oneear.2022.10.003>
4. Salvatore D., Mok K., Garrett K., Poudrier G., Brown P., Birnbaum L., Goldenman G., Miller M., Patton S., Poehlein M., **Varshavsky J.R.**, Corder A., Presumptive Contamination: A New Approach to PFAS Contamination Based on Likely Sources. *Environmental Science and Technology Letters*, October 12, 2022, 9(11), 983-990.
<https://doi.org/10.1021/acs.estlett.2c00502>
5. Pelch K.E., Reade A., Kwiatkowski C.F., Merced-Nieves F.M., Cavalier H.; Schultz K.; Wolffe T., **Varshavsky J.R.**, The PFAS-Tox Database: A systematic evidence map of health studies on 29 per- and polyfluoroalkyl substances. *Environment International*, July 28, 2022, 167:107408. <https://doi.org/10.1016/j.envint.2022.107408>.
6. **Varshavsky J.R.**, Robinson J.F., Zhou Y., Puckett K.A., Kwan E., Buarpung S., Aburajab R., Gaw S., Sen S., Gao S., Smith S.C., Park J.S., Zakharevich I., Gerona R.G., Fisher S.J., Woodruff T.J., Organophosphate flame retardants, highly fluorinated chemicals, and biomarkers of placental development and disease during mid-gestation. *Toxicological Sciences*, March 2, 2021. <https://doi.org/10.1093/toxsci/kfab028>.
7. **Varshavsky J.R.**, Sen S., Robinson J.F., Smith S.C., Frankenfield J., Wang Y., Yeh G., Park J.S., Fisher S.J., Woodruff T.J., Racial/ethnic and geographic differences in polybrominated diphenyl ether (PBDE) levels across maternal, placental, and fetal tissues

during mid-gestation, *Scientific Reports*, July 22, 2020, 10:12247.
<https://doi.org/10.1038/s41598-020-69067-y>.

8. **Varshavsky J.R.**, Robinson J.F., Zhou Y., Puckett K.A., Kwan E., Buarpong S., Aburajab R., Gaw S., Sen S., Smith S.C., Frankenfield J., Park J.S., Fisher S.J., Woodruff T.J., Association of polybrominated diphenyl ether (PBDE) levels with biomarkers of placental development and disease during mid-gestation. *Environmental Health*, June 3, 2020; 19(1):61. <https://doi.org/10.1186/s12940-020-00617-7>.
9. **Varshavsky J.R.**, Morello-Frosch R., Harwani S., Snider M., Petropoulou Syrago-Styliani E., Park J., Petreas M., Reynolds P., Nguyen T., Quach T., A pilot biomonitoring study of cumulative phthalates exposure among Vietnamese American nail salon workers. *International Journal of Environmental Research and Public Health*, January 2, 2020, 17(1), 325. <https://doi.org/10.3390/ijerph17010325>.
10. **Varshavsky J.R.**, Smith A., Wang A., Hom E., Izano M., Huang H., Padula A., Woodruff T.J., Heightened susceptibility: A review of how pregnancy and chemical exposures influence maternal health. *Reproductive Toxicology*, March 2020; 92, 14–56. <https://doi.org/10.1016/j.reprotox.2019.04.004>. (Listed as top two most cited research articles on *Reproductive Toxicology* website since 2018).
11. Padula A.M., Monk C., Brennan P.A., Borders A., Barrett E.S., McEvoy C.T., Foss S., Desai P., Alshawabkeh A., Wurth R., Salafia C., Fichorova R., **Varshavsky J.R.**, Kress A., Woodruff T.J., Morello-Frosch R., A review of maternal prenatal exposures to environmental chemicals and psychosocial stressors-implications for research on perinatal outcomes in the ECHO program, *Journal of Perinatology*, October 15, 2019; 40, 10–24. <https://doi.org/10.1038/s41372-019-0510-y>.
12. **Varshavsky J.R.**, Morello-Frosch R., Woodruff T.J., Zota A.R., Dietary sources of cumulative phthalates exposure among the U.S. General population in NHANES 2005–2014. *Environment International*, 2018; 115, 417–429. <https://doi.org/10.1016/j.envint.2018.02.029>.
 - a. Covered in “Dining out is bad for your health, according to a new study”, by Justin Phillips, San Francisco Chronicle, March 29, 2018: <https://www.sfgate.com/news/article/Dining-out-is-bad-for-your-health-according-to-a-12789378.php>
 - b. Covered in “Eating out increases exposure to harmful phthalates”. By Brett Israel, Berkeley News, March 29, 2018. https://news.berkeley.edu/story_jump/eating-out-increases-exposure-to-harmful-phthalates/
 - c. Covered in “Eating out linked to potentially harmful chemicals used in plastic packaging, study finds”, by Charley Ross, Huffington Post, March 29, 2018: https://www.huffingtonpost.co.uk/entry/eating-out-linked-to-potentially-harmful-chemicals-used-in-plastic-packaging-study-finds_uk_5abc99c3e4b03e2a5c794fda
 - d. Covered in “Eating out increases levels of phthalates in the body, study finds”, by Patrick Greenfield, The Guardian, March 28, 2018: <https://www.theguardian.com/society/2018/mar/29/eating-out-increases-levels-of-phthalates-in-the-body-study-finds>
 - e. Covered in “The science about eating out that will scare you into cooking your own dinners”, by Jackie Flynn Mogensen, Mother Jones, March 28, 2018: <https://www.motherjones.com/environment/2018/03/the-science-about-eating-out-that-will-scare-you-into-cooking-your-own-dinners/>

- f. Covered in “Restaurant link to potentially harmful food packaging chemicals”, The Argus, March 28, 2018:
<https://www.theargus.co.uk/news/national/16124306.restaurant-link-potentially-harmful-food-packaging-chemicals/>
 - g. Referenced in “Feinstein to Introduce Bill to Remove Harmful Chemicals from Food Packaging”, Press Release, March 29, 2018:
<https://www.feinstein.senate.gov/public/index.cfm/press-releases?ID=C2AA1BB5-E857-4722-BDE3-5F93605FAE29>
13. **Varshavsky J.R.**, Zota A., Woodruff T.J., A novel method for calculating potency-weighted cumulative phthalates exposure with implications for identifying racial/ethnic disparities among U.S. reproductive-aged women in NHANES 2001–2012. *Environmental Science and Technology*, 2016; 50(19):10616-10624.
 14. Morello-Frosch R., **Varshavsky J.R.**, Liboiron M., Brown P., Brody J.G., Communicating results in post-Belmont era biomonitoring studies: Lessons from genetics and neuroimaging Research. *Environmental Research*, 2015; 136: 363–372.
 15. Quach T., **Varshavsky J.R.**, Von Behren J., Garcia E., Tong M., Nguyen T., Tran A., Gunier R., Reynolds P. Reducing chemical exposures in nail salons through owner and worker trainings: An exploratory intervention study. *American Journal of Industrial Medicine*, 2012; 9999: 1–12.
 16. Garcia-Reyero N., Poynton H.C., Kennedy A.J., Guan X., Escalon B.L., Chang B., **Varshavsky J.R.**, Loguinov A.V., Vulpe C.D., Perkins E.J., Biomarker discovery and transcriptomic responses in *Daphnia magna* exposed to munitions constituents. *Environmental Science and Technology*, 2009; 43: 4188–4193.
 17. Poynton H.C., Loguinov A.V., **Varshavsky J.R.**, Chan S., Perkins E.J., Vulpe C.D., Gene expression profiling in *Daphnia magna* part I: concentration-dependent profiles provide support for the no observed transcriptional effect level. *Environmental Science and Technology*, 2008; 42: 6250–6256.
 18. Poynton H.C., **Varshavsky J.R.**, Chang B., Cavigliolo G., Chan S., Holman P.S., Loguinov A.V., Bauer D.J., Komachi K., Theil E.C., Perkins E.J., Hughes O., Vulpe C.D., *Daphnia magna* ecotoxicogenomics provides mechanistic insights into metal toxicity. *Environmental Science and Technology*, 2007; 41: 1044–1050.

Non-Peer-Reviewed Articles

1. Abrahamsson, D., Robinson, J.F., Lam, J., **Varshavsky, J.**, Fung, J.C., Allard, P., Woodruff, T.J., Identifying chemical categories for testing in in vivo / in vitro systems for reproductive and developmental effects. December 6, 2021. Zenodo.
<https://doi.org/10.5281/zenodo.5760170>

Book Chapters

1. Brody C. and **Varshavsky J.R.**, “The flip side: How the environment impacts our reproductive health”, in Laurie Mazur Ed., A Pivotal Moment: Population, Justice and the Environmental Challenge. Island Press, Washington, Covelo, London, October 2009.

CREATIVE ACTIVITY

Systematic Evidence Maps / Databases

1. Pelch K.E., Reade A., Kwiatkowski C.F., Wolffe T., Merced-Nieves F.M., Cavalier H., Schultz K., Rose K., **Varshavsky J.R.** 2021. PFAS-Tox Database available at <https://pfastoxdatabase.org> DOI: 10.17605/OSF.IO/F9UPX.
2. Pelch K.E., Reade A., Wolff T., Kwiatkowski C.F., **Varshavsky J.R.**, Rose K. [Online Tool] TEDX PFAS Systematic Evidence Map, December 5, 2019. <https://pfascentral.org/science/online-tool-tedx-pfas-systematic-evidence-map>. Beta version of PFAS systematic evidence map available at: <https://public.tableau.com/profile/the.endocrine.disruption.exchange#!/vizhome/PFASToxDatabase/PFASDatabase-BETA>.

Reports and Blogs

1. **Varshavsky J.R.**, With chemicals that can harm you, one size does not fit all. Program on Reproductive Health and the Environment (PRHE), University of California, San Francisco. PRHE blog. January 23, 2023. <https://prheucsf.blog/2023/01/23/with-chemicals-that-can-harm-you-one-size-does-not-fit-all/>
2. **Varshavsky J.R.**, Generation X-Y-Z: Bridging the gap between then and now. Collaborative on Health and the Environment blog. November 1, 2022. <https://www.healthandenvironment.org/join-us/blog/generation-x-y-z-bridging-the-gap-between-then-and-now>
3. **Varshavsky J.R.**, Yesterday's flame retardants in today's bodies. Program on Reproductive Health and the Environment (PRHE), University of California, San Francisco. PRHE blog. July 23, 2020. <https://prheucsf.blog/2020/07/23/yesterdays-flame-retardants-in-todays-bodies/>.
4. **Varshavsky J.R.**, Don't put pregnancy in a corner: It's about more than fetal health. Program on Reproductive Health and the Environment (PRHE), University of California, San Francisco. PRHE blog. June 25, 2019. <https://prheucsf.blog/2019/06/25/dont-put-pregnancy-in-a-corner-its-about-more-than-fetal-health/>.
5. **Varshavsky J.R.**, No free lunch with phthalates on the menu. Program on Reproductive Health and the Environment (PRHE), University of California, San Francisco. PRHE blog. March 28, 2018. <https://prheucsf.blog/2018/03/28/no-free-lunch-with-phthalates-on-the-menu/>.
6. Barrett J., Gonzalez S., Sarantis H., **Varshavsky J.R.**, Girl, disrupted: Hormone disruptors and women's reproductive health. A report on the women's reproductive health and the environment workshop. Collaborative on Health and the Environment (CHE), January 2009.
7. Brody C. and **Varshavsky J.R.**, Half the man his father was? Weblog entry. RH Reality Check. Posted June 17, 2008. Retrieved October 11, 2009, from <http://www.rhrealitycheck.org/blog/2008/06/13/half-man-his-father-was>.
8. Brody C. and **Varshavsky J.R.**, A 21st century right to choose. Weblog entry. RH Reality Check. Posted November 13, 2007. Retrieved October 11, 2009, from <http://www.rhrealitycheck.org/blog/2007/11/13/a-21st-century-right-to-choose>.

Podcasts

1. **Varshavsky J.R.**, with Yvette Aldridge and Bill Walsh, hosted by Jessica Aldridge from SoCal 350 and Adventures in Waste, Human Health: The Threats of Plastic, part three of a seven-part series, called, "The Plastic Plague: Connecting the Dots between Extraction, Inequity, and Pollution." EcoJustice Radio, March 6, 2020. Retrieved November 3, 2021,

from <https://podcasts.apple.com/us/podcast/human-health-the-threats-of-plastic-plastic-plague-pt-3/id1447211636?i=1000470343152>.

Media Coverage

1. Quoted in “A new law is supposed to protect pregnant workers—but what if we don’t know how?”, by Gina Jiménez, KFF Health News, June 30, 2023: <https://kffhealthnews.org/news/article/pregnancy-chemicals-occupational-risks-accommodations/>
2. Quoted in “Water PFAS clean-up costs could trickle down”, by Danica Jeffries, NBC News, April 24, 2023: <https://www.nbcnews.com/data-graphics/water-pfas-clean-costs-trickle-rcna80504>
3. Quoted in “EPA says even extremely low levels of PFAS in drinking water may be unsafe”, by Kevin Loria, Consumer Reports, June 15, 2022: <https://www.consumerreports.org/water-quality/even-extremely-low-levels-of-pfas-in-drinking-water-unsafe-a1147585461/>

PRESENTATIONS

Invited Presentations

- Zimmerman E. and **Varshavsky J.R.**, Environmental health: What school nurses need to know to make a difference. Presentation at the annual School Nurses International Conference, Boston, MA, July 20, 2023.
- **Varshavsky J.R.**, How should we consider human variability and susceptibility in chemical risk assessment? Current practice and recommendations. Webinar presentation for the Program on Reproductive Health and the Environment and Science Action Network for Health and the Environment, February 2, 2023.
- **Varshavsky J.R.**, Aung M., Heilig S., CHE Cafe: Exploring the Past, Present & Future of Environmental Health. Webinar presentation for the Collaborative on Health and the Environment’s 20th anniversary CHE café call series, September 8, 2022. <https://www.healthandenvironment.org/webinars/96622>
- **Varshavsky J.R.**, A pilot biomonitoring study of phthalates exposure among Vietnamese American nail salon workers, Virtual presentation for Workplace Health Without Borders Nail Salon Discussion Panel, May 12, 2021.
- **Varshavsky J.R.**, Heightened susceptibility: A review of how pregnancy and chemical exposures influence maternal health. Virtual presentation for the Collaborative on Health and the Environment, Generational Chemical webinar series, March 9, 2021.
- **Varshavsky J.R.** and Woodruff T.J., Emerging public health concerns of food packaging: Phthalates and reproductive/developmental health. Oral presentation at the American Chemical Society (ACS) National Meeting & Exposition, “Moving Chemistry from Bench to Market”. Virtual Meeting, August 17–20, 2020.
- **Varshavsky, J.R.**, Better accounting of human variability and vulnerability in chemical risk assessment. Webinar presentation at the UCSF Program on Reproductive Health and the Environment Science Response Network Virtual Meeting, September 10–11, 2020.
- **Varshavsky J.R.** Food packaging: Emerging public health concerns. California Conference of Directors of Environmental Health (CCDEH) 64th Annual Conference, “Science Behind the Policy”. The Village at Squaw, Olympic Valley, CA, USA, October 1, 2019.
- **Varshavsky J.R.**, Plastics and human health: Towards non-toxic sustainable alternatives. Webinar presentations for the Clean Seas Coalition and 5 Gyres Institute, January 2019.

J. Varshavsky

Curriculum Vitae (last update:9/7/2023)

- **Varshavsky J.R.**, Plastics and human health: Towards non-toxic sustainable alternatives. Oral presentation at the University of California, Irvine (UC Irvine) at the “Solutions to Plastics” Conference, part of the “Toward a Sustainable 21st Century” Series. Santa Ana, CA, USA, November 5, 2018.
- Sotos E., Miller E., Christensen J.H., **Varshavsky J.R.**, Cordero C., Parkinson’s, asthma, infertility, learning disabilities and autism: What’s the environment got to do with it? (Workshop), The Bioneers Conference. San Rafael, CA, USA, October 20, 2007.

International Conferences

- **Varshavsky J.R.**, Zalay M., Trowbridge J., Jones G., Woodruff T.J., Bradman A., Eskenazi B., Harley K., Kogut K., Hoover S., Kauffman D., Brown P., Brody J., Morello-Frosch R., Participant perspectives related to individual chemical exposure report-back approaches in three environmental health studies, Oral presentation in the Creating translational impact through individual report-back and community-wide engagement symposium at the Annual Conference of the International Society of Exposure Science (ISES), “Connecting Communities & Science through Addressing Environmental Exposures”. Chicago, Illinois, August 27–31, 2023.
- **Varshavsky J.V.**, Lam J., Allard P., Fung J., Oke A., Robinson J.F., Woodruff, T.J., Analyzing high-throughput assay data to advance the rapid screening of environmental chemicals for reproductive toxicity, Poster presentation in the Application of Advances in Exposure Science to Support Chemical Safety Decision Making symposium at the Annual Conference of the International Society of Exposure Science (ISES). Chicago, Illinois, August 27–31, 2023.
- Peerman N.P.*, Bator S., Bline A., Fernandez L., Brown P., **Varshavsky J.R.**, Techniques and technologies to remove per- and polyfluoroalkyl substances (PFAS) from contaminated soil and water: A literature review on PFAS remediation options. Poster presentation at the annual Association of Environmental Engineering and Science Professors (AEESP) conference, “Responding Together to Global Challenges”. Boston, MA, June 18–22, 2023.
- **Varshavsky J.R.**, Reade A., Kwiatkowski C., Merced-Nieves F.M., Cavalier H., Schultz K., Wolffe T., Pelch K.E., The PFAS-Tox Database: A systematic evidence map of health studies on per- and polyfluoroalkyl substances. Poster presentation at the 34th Annual Conference of the International Society for Environmental Epidemiology (ISEE), “Strengthening the global role of environmental epidemiology”. Athens, Greece, September 18–21, 2022.
- **Varshavsky J.R.**, Robinson J.F., Zhou Y., Puckett K.A., Kwan E., Buarpung S., Aburajab R., Gaw S., Sen S., Sabrina S.C., Frankenfield J., Park J.S., Fisher S., Woodruff T.J. Environmental chemicals associated with early placental changes that could increase risk of maternal and fetal health complications like preterm birth. Poster presentation on environmental chemical exposures during mid-gestation and biomarkers of placental development at the 32nd Annual Conference of the International Society for Environmental Epidemiology (ISEE), “Advancing Environmental Health in a Changing World”. Virtual Meeting, August 24–27, 2020.
- **Varshavsky J.R.**, Robinson J.F., Zhou Y., Puckett K.A., Kwan E., Buarpung S., Aburajab R., Gaw S., Sen S., Sabrina S.C., Frankenfield J., Park J.S., Fisher S., Woodruff T.J. Proof in the placenta: Flame retardant chemicals and molecular biomarkers. A proof of principle using early biomarkers of exposure and effect as potential indicators of future maternal-fetal health risks. Poster presentation on maternal-fetal polybrominated diphenyl ether (PBDE)

levels and biomarkers of placental development and disease during mid-gestation at the 32nd Annual Conference of the International Society for Environmental Epidemiology (ISEE), “Advancing Environmental Health in a Changing World”. Virtual Meeting, August 24–27, 2020.

- **Varshavsky J.R.**, Puckett K.A., Robinson J., Sen S., Morello-Frosch R., Fisher S., Woodruff T.J., Relationship between polybrominated diphenyl ether (PBDE) levels in maternal serum and fetal tissues during mid-gestation of pregnancy and associations with placental biomarkers of growth and development. Platform Presentation at the International Society of Exposure Science (ISES) and International Society of Environmental Epidemiology (ISEE) Joint Annual Meeting. Ottawa, Ontario, August 2018.
- **Varshavsky J.R.**, Harwani S., Snider M., Petropoulou Syrago-Styliani E., Park J., Petreas M., Reynolds P., Nguyen T., Quach T., Measurement of urinary phthalate metabolites in a pilot study of nail salon workers and comparison to a sample of the U.S. population. Poster Presentation at the 26th Annual International Society of Exposure Science (ISES) Conference. Utrecht, Netherlands, October 2016.
- **Varshavsky J.R.**, Zota A., Woodruff T.J., Racial/Ethnic disparities in cumulative phthalates exposure among U.S. reproductive-aged women: Findings from NHANES 2001–2012. Poster Presentation at the 25th Annual International Society of Exposure Science (ISEE) conference. Henderson, NV, USA, October 2015.
- Morello-Frosch R., **Varshavsky J.R.**, Liboiron M., Brown P., Brody J., Communicating results in post-Belmont era biomonitoring studies—implications for researchers and study participants. Platform Presentation at the 25th Annual International Society of Exposure Science (ISES) conference. Henderson, NV, USA, October 2015.
- Morello-Frosch R., **Varshavsky J.R.**, Liboiron M., Brown P., Brody J.G., Communicating results in post-Belmont era biomonitoring studies: Lessons from genetics, biobanking, and neuroimaging research. Poster Presentation at the 26th Annual International Society for Environmental Epidemiology Conference. Seattle, WA, USA, August 2014.

National Conferences

- **Varshavsky J.R.**, Lam J., Allard P., Fung J., Oke A., Abrahamson, D., Robinson J.R., Woodruff, T.J., Analyzing high-throughput assay data to advance the rapid screening of environmental chemicals for reproductive toxicity. Poster presentation for National Academies workshop, Artificial Intelligence and Open Data Practices in Chemical Hazard Assessment. Virtual Meeting, May 25–26, 2022.
- **Varshavsky J.R.**, Rayasam S.D.G., Sass J.B., Axelrad D.A., Cranor C.F., Hattis D., Hauser R., Koman P.D., Marquez E.C., Morello-Frosch R., Oksas C., Patton S., Robinson J.F., Sathyanarayana S., Shepard P.M., Woodruff T.J., Current practice and recommendations for advancing how human variability and susceptibility are considered in chemical risk assessment. Platform presentation for the Social and Environmental Exposures and the Developmental Origins of Health Disparities conference hosted by the Socio-Environmental Research Group (SERG). Portland, Oregon, April 21–22, 2022.
- **Varshavsky J.R.**, Robinson J.F., Zhou Y., Puckett K.A., Kwan E., Buarjung S., Aburajab R., Gaw S., Sen S., Sabrina S.C., Frankenfield J., Park J.S., Fisher S., Woodruff T.J., Exposure to flame retardants and surfactants *in utero* and biomarkers of human placental development and disease. Oral presentation at the 61st Annual Meeting of the Society for Birth Defects Research and Prevention (BDRP). Virtual Meeting, June 29, 2021.

- **Varshavsky J.R.**, Robinson J.F., Zhou Y., Puckett K.A., Kwan E., Buarpong S., Aburajab R., Gaw S., Sen S., Sabrina S.C., Frankenfield J., Park J.S., Fisher S., Woodruff T.J., Environmental chemicals associated with biomarkers of placental development and disease in 2nd trimester maternal and fetal tissues. Self-narrated poster presentation at the 60th Annual Meeting of the Society for Birth Defects Research and Prevention (BDRP). Virtual Meeting, June 29, 2020.
- Jigmeddagva U., Chen H., **Varshavsky J.R.**, Abrahamsson D., Lam J., Fung J.C., P Allard P., TJ Woodruff T.J., Robinson J.F., Utilizing a human embryonic stem cell model of neurogenesis to identify developmental neurotoxicants, presentation at the 60th Annual Meeting of the Society for Birth Defects Research (BDRP). Birth Defects Research 112 (11): 864-864.
- **Varshavsky J.R.**, Robinson J.F., Zhou Y., Puckett K.A., Kwan E., Buarpong S., Aburajab R., Gaw S., Sen S., Sabrina S.C., Frankenfield J., Park J.S., Fisher S., Woodruff T.J., Association of maternal-fetal polybrominated diphenyl ether (PBDE) levels with biomarkers of placental development and disease during mid-gestation. Platform presentation at the 59th Annual Meeting of Society of Toxicology (SOT). Anaheim, California, March 15–19, 2020.
- **Varshavsky J.R.**, Robinson J.F., Zhou Y., Williams K.A., Kwan E., Buarpong S., Aburajab R., Gaw S.L., Sen S., Park J., Smith S.C., Fisher S.J., Woodruff T.J., Association of emerging contaminants with biomarkers of placental disease and development during mid-gestation of pregnancy. Platform Presentation at the 40th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC) of North America. Toronto, Canada, November 3–7, 2019.
- Abrahamsson D., Wang A., **Varshavsky J.R.**, Lam J., Fung J.C., Robinson J.F., Allard P., Woodruff T.J., Prioritizing chemicals for toxicity testing for reproductive effects using non-targeted analysis data of prenatal exposures and literature review. Poster Presentation at the 40th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC) of North America. Toronto, Canada, November 3–7, 2019.
- **Varshavsky J.R.**, Sen S., Park J., Smith S.C., Robinson J.F., Marx-Kahn Z., Woodruff T.J., African-American and Central Valley pregnant women have higher exposures to harmful flame retardant chemicals. Poster Presentation at the 13th Annual Health Disparities Research Symposium, University of California, San Francisco (UCSF). San Francisco, CA, USA, October 11, 2019.
- **Varshavsky J.R.**, Environmental chemicals and biomarkers of placental disease and development during mid-gestation. Oral Presentation at the Center for Reproductive Sciences Symposium, University of California, San Francisco (UCSF), June 7, 2019.
- Crispo Smith S., Zhang L., Harney E., **Varshavsky J.R.**, Morello-Frosch R., Park J.S., Woodruff T.J., Trends in concentration of per- and polyfluorinated substances in California women's serum. Poster Presentation at the 39th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC) of North America. Sacramento, CA, USA, November 2018.
- Wang Y., Yeh G., Crispo Smith S., **Varshavsky J.R.**, Park J.S., Woodruff T.J., Temporal trend of polybrominated diphenyl ethers (PBDEs) in Northern California pregnant women. Poster Presentation at the 39th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC) of North America. Sacramento, CA, USA, November 2018.
- **Varshavsky J.R.**, Harwani S., Snider M., Petropoulou Syrago-Styliani E., Park J., Petreas M., Reynolds P., Quach T., Urinary phthalate metabolites as biomarkers to assess a nail salon workplace exposure intervention program. Poster Presentation at the 33rd Annual

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Curriculum Vitae (last update:9/7/2023)

Meeting of the Society of Environmental Toxicology and Chemistry (SETAC) of North America. Nashville, TN, USA, November 2013.

- **Varshavsky J.R.**, Quach T., Von Behren J., Tong M., Nguyen T., Tran A., Gunier R., Reynolds P. Volatile organic solvents in California nail salons: Personal air exposure findings. Poster Presentation at the 140th Annual Meeting of the American Public Health Association (APHA). San Francisco, CA, USA, October 2012.
- Quach T., **Varshavsky J.R.**, Von Behren J., Tong M., Nguyen T., Tran A., Reynolds P., A feasibility intervention study to reduce chemical exposures in nail salons. Roundtable discussion at the 140th Annual Meeting & Expo of the American Public Health Association (APHA). San Francisco, CA, USA, October 2012.
- Poynton H.D., Chan S., **Varshavsky J.R.**, Loguinov A., Vulpe C., Ecotoxicogenomic approaches to biomarker discovery in *Daphnia magna*. Poster Presentation at the 28th Annual Conference of the Society of Environmental Toxicology and Chemistry (SETAC) in North America. Milwaukee, WI, USA, November 2007.
- Poynton H.C., Zuzow R., **Varshavsky J.R.**, Chan S., Loguinov, A.V., Vulpe C.D., Mining for genomic biomarkers of metal exposure in *Daphnia magna*. Poster Presentation at the 28th Annual Conference of the Society of Environmental Toxicology and Chemistry (SETAC) in North America. Milwaukee, WI, USA, November 2007.
- **Varshavsky J.R.**, Poynton H., Chang B., Holman P., Loguinov A., Bauer D., Colbourne J., Vulpe C., The effect of concentration on gene expression profiling in *Daphnia magna*. Poster Presentation at the 26th Annual Conference of the Society of Environmental Toxicology and Chemistry (SETAC) in North America. Baltimore, MD, USA, November 2005.

Other Conferences

- Balmaseda S.* and **Varshavsky J.R.**, Review of population demographics in human studies on PFAS and reproductive health. Poster Presentation at Northeastern University's annual Research Innovation Scholarship Entrepreneurship (RISE) conference, Boston, Massachusetts, April 13, 2023.

RESEARCH SUPPORT: GRANTS AWARDED

- "Systematizing Data on Per- and Polyfluoroalkyl Substances and Health". Northeastern University Tier 1 Competitive Grant (Mentored Award). July 2022–September 2023. Co-Principal Investigator (with Phil Brown and Loretta Fernandez; \$50,000).
- "Healthier Air and People: Intelligent Solutions to Urban Pollution for Equity and Resilience (iSUPER)". Northeastern University Impact Engine. August 2022–July 2027. Principal Investigator: Yang Zhang.

HONORS AND AWARDS

- Faculty Scholar, Institute for Health Equity and Social Justice, Northeastern University (2021–present).
- Science Communication Fellow, Advancing Green Chemistry (2017–2018).
- "Incorporating Endocrine Disrupting Chemicals Into Life Cycle Assessments for Energy vs Health Impact Analysis: Challenges and Solutions". Integrative Graduate Education and Research Traineeship (IGERT): Systems Approach to Green Energy (SAGE) Fellowship, National Science Foundation (2015–2017).

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- “Cumulative Exposure, Risk Assessment and Communication of Phthalates in Vulnerable Populations”. Science to Achieve Results (STAR) Fellowship, U.S. Environmental Protection Agency (2012–2015).
- University of California, Berkeley, School Public Health Alumni Association Scholarship (2011–2014).
- American Industrial Hygiene Foundation Liberty Mutual Scholarship (2011).
- 3M Industrial Hygiene Scholarship (2011).
- U.S. Department of Health and Human Services Public Health Traineeship (2010).
- Undergraduate Research Apprenticeship, University of California, Berkeley (2004).
- Bioneers Youth Scholarship (2003).

TEACHING EXPERIENCE

Courses Taught: Northeastern University–Department of Health Sciences

- Environmental Health (PHTH 2414), Spring 2022, 17 students.
- Environmental Health (PHTH 2414), Spring 2023, 21 students.
- Greener Solutions adaptation as part of Tools and Techniques in Environmental Health (CIVE 5255), Fall 2023, 7 students.

MENTORING

Graduate Student Advising, Department of Health Sciences

- Lauren Ellis, Population Health PhD Program, T32 traineeship awarded, Fall 2023 admit.
- Ecom Lu. MPH Plus One student, MPH capstone committee (defended Spring 2023).

Graduate Student Advising, Department of Civil and Environmental Engineering

- Nicolette Peerman, Master’s student, Civil Engineering, Thesis advisor, “Techniques and Technologies to Remove Per- and Polyfluoroalkyl Substances (PFAS) From Contaminated Soil and Water – A Literature Review on PFAS Remediation Options” (expected graduation Fall 2023).
- Matthew Biega, Master’s student, Engineering and Public Policy, Independent report advisor, “Implications of a New PFAS Designation Under CERCLA Using a Geospatial Analysis” (graduated Fall 2022).
- Saeed Tavakhsh, PhD student, Civil and Environmental Engineering, Co-chair (expected defense Spring 2025).
- Saadat Shahidi, Interdisciplinary PhD program, Civil and Environmental Engineering, Co-chair (Fall 2023 admit).
- Maryam Niati, Interdisciplinary PhD program, Civil and Environmental Engineering, Committee member (Fall 2023 admit).
- Huang, Kaixlin. Department of Civil and Environmental Engineer. Dissertation Committee Member. (defended December 13, 2021.) “Using Large-Scale Energy Model to Project Physical Economy, Future Emission, and Potential Health Benefit Changes.”

Undergraduate Student Advising, Northeastern University

- Kennedy Thompson, 1st and 2nd year, Health Sciences, PFAS-Tox Database project.
- Mia Weisman, 1st and 2nd year, Health Sciences, PFAS-Tox Database project.
- Zoe Ronkin, 1st year, Biology, PFAS-Tox Database project.
- Kaitlyn Hollister, 1st and 2nd year, Health Sciences, PFAS-Tox Database project.

- Diane Grant, 2nd year, Computer Science and Political Science, PFAS-Tox Database project.
- Sabrina Balmaseda, 2nd year, Health Sciences, ROUTES Scholar, full-time co-op position on the PFAS-Tox Database January–July 2023.

SERVICE AND PROFESSIONAL DEVELOPMENT

Service to Institution

A. Departmental Service–Health Sciences

- Member, Master of Public Health Committee, 2021–2023.

B. Departmental Service–Civil and Environmental Engineering

- Member, Graduate Studies Committee, MSCE and PhD Data and Systems Concentration, 2021–2023.

C. University Service–Northeastern University

- Tier 1 proposal reviewer, 2023.
- Core faculty in the Social Science Environmental Health Research Institute (SSEHRI), including the PFAS Project Lab, 2021–Present.
- Affiliate faculty in the Faculty Scholars Program of the Institute for Health Equity and Social Justice Research (IHESJR), including research advisor to two Health Equity Interns, 2021–Present.

D. University Service–University of California, Berkeley

- Student Government Representative, University of California, Berkeley, School of Public Health, 2010–2011.
- Earth Day Program Coordinator, University of California, Berkeley, 2004.
- Co-Founder, Environmental Coalition (ECO), University of California, Berkeley, 2004.

Service to Discipline/Profession

- Co-chair of International Society of Exposure Science (ISES) report-back symposium for annual meeting, August 2023.
- Occasional referee for Environmental Health Perspectives, Environment International, American Chemical Society Publications, Environmental Health, Environmental Research, 2016–Present.
- Reviewer, National Academy of Science Workshop Proceedings, Predicting Human Health Effects from Environmental Exposures: Applying Translatable and Accessible Biomarkers of Effect, 2020.
- Certificate of Recognition, American Chemical Society Publications, Reviewing Activity, September 2018.
- Outstanding Reviewer, Environment International, April 2018.
- Recognized Reviewer, Environment International, February 2018.
- Member, Task Force for Harmonizing Human Toxicity in Life Cycle Impact Assessment, UNEP–SETAC Life Cycle Initiative, 2016–Present.

Service to the Community/Public

- Science Advisory Board Member, Collaborative for Health and Environment, April 2023–Present.
- Student Representative, Genetic and Environmental Toxicology Association, Northern California, 2011–2013.
- National Institute of Environmental Health Sciences Public Interest Partner, 2010.
- Evening News Co-Ancor, KPFA Pacifica Radio, 2006–2009.

Professional Development / Memberships

- Faculty Success Program, National Center for Faculty Development and Diversity (NCFDD), 2021–Present.
- Society of Birth Defects Research and Prevention (BDRP), 2017–Present.
- Society of Toxicology (SOT), 2012–Present.
- American Congress of Obstetricians and Gynecologists (ACOG), 2007–2010.
- International Society of Environmental Epidemiology (ISEE), 2016–Present.
- International Society of Exposure Science (ISES), 2012–Present.
- Society of Environmental Toxicology and Chemistry (SETAC), 2004–Present.
- American Public Health Association (APHA), 2010–Present.
- Genetic and Environmental Toxicology Association of Northern California (GETA), 2012–Present.
- American Industrial Hygiene Association (AIHA), 2010–Present.
- Environmental and Occupational Exposures Working Group, Centers for Disease Control (CDC), 2012–2017.
- Action Plan on Infertility Prevention, Detection, and Management, American Society for Reproductive Medicine (ASRM), 2007–2010.
- Association of Reproductive Health Professionals (ARHP), 2007–2010.