

PAHRIYA ASHRAP

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EDUCATION

University of Michigan School of Public Health

Ph.D., Environmental Health Sciences

Dissertation: Metal Exposure and Birth Outcomes in Puerto Rico

Committee: Dr. John Meeker, Dr. Bhramar Mukherjee, Dr. Rita Loch-Carusso, Dr. Marie O'Neill, Dr. Deborah Watkins

Ann Arbor, MI

Expected Apr'21

Harvard T.H. Chan School of Public Health

Master of Science, Environmental Health

Program: Environmental Exposure, Epidemiology, & Risk

Boston, MA

May'17

Peking University

Bachelor of Science, Environmental Science

Beijing, China

Jul'15

RESEARCH EXPERIENCE

University of Michigan School of Public Health

Graduate Student Researcher; Mentor: Dr. John Meeker

Ann Arbor, MI

Sep'17 – present

- Conducting epidemiological research to investigate the relationship between exposure to endocrine disrupting chemicals (EDCs) and reproductive, metabolic, and pregnancy outcomes utilizing prospective birth cohorts.
 - ELEMENT: Early Life Exposures in Mexico to Environmental Toxicants
 - PROTECT: Puerto Rico Testsite for Exploring Contamination Threats
- Applying statistical methods to conduct and illustrate trends of human exposure to environmental toxicants
- Write grants, publish in peer-reviewed scientific literature and present at scientific conferences

Harvard J A. P School of Engineering and Applied Sciences

Graduate Research Assistant; Mentor: Dr. Elsie Sunderland

Boston, MA

May'16 – May'17

- Utilized Unix/Linux to manage, analyze, and secure large data stored at cloud cluster
- Developed models to evaluate dietary and methylmercury biomarker data across multiple cohorts, including Nurse's Health Study I, National Health and Nutrition Examination Survey (NHANES)

Harvard T.H. Chan School of Public Health

Graduate Research Assistant; Mentor: Dr. Joel Schwartz

Cambridge, MA

Jul'16 – Sep'16

- Compiled and systematically reviewed studies for meta-analysis using databases: Pubmed, Embase, Environmental Index, Web of Science

Peking University College of Urban and Environmental Sciences

Undergraduate Research Assistant; Mentor: Dr. Yi Wan

Beijing, China

Jan'13 – Jun'15

- Established methods for in vitro metabolism of phenolic chemicals in various species, including humans.
- Developed analytical method for triclosan and its metabolites on GC-MS and UPLC-QTOF-MS
- Analyzed chromatography data, prepared and published manuscript on “pathway discovery of a widespread metabolic pathway within and among phenolic xenobiotics”

TEACHING EXPERIENCE

University of Michigan College of Literature, Science, and the Arts	<i>Boston, MA</i>
Teaching Fellow, Introductory Uyghur I-II; Instructor: Dr. Gulnisa Nazarova	<i>Summer and Fall'19, Spring'20</i>
Teaching Fellow, Intermediate Uyghur I-II; Instructor: Dr. Gulnisa Nazarova	<i>Fall'20</i>
Qarluq Media Tech Co., Ltd	<i>Urumqi, China</i>
Lecturer of Data Science and Biostatistics in Public Health	<i>Jun'17 -Aug'17</i>
Ijtihat Education	<i>Urumqi, China</i>
Online Course Creator and Lecturer, High School Mathematics (http://ijtihat.com/)	<i>May'17 – Jul'17</i>

LEADERSHIP & VOLUNTEER EXPERIENCE

Public Health Sustainability Initiative , University of Michigan	<i>Aug'17 – present</i>
Vice President	
Western Region's Culture Communication Association , Peking University	<i>Mar'13 – Sep'14</i>
President	
▪ Awarded top 10 Student Association at Peking University	
Yarp Anti-Drug and AIDS Prevention Network , China	<i>Sep'08 – present</i>
Youth Drug Education Campaign Volunteer and Online Journalist	
Volunteer Team , Peking University	<i>Mar'12-Jul'12</i>
Teaching Fellow, English	

AWARDS & HONORS

Dr. Teh-Hsun and Mang-Shuen Lee Award in Engineering and Science , University of Michigan	<i>Apr'20</i>
Barbour Scholarship , University of Michigan	<i>Mar'20</i>
Rackham Conference Travel Grant , University of Michigan Rackham Graduate School	<i>Jul'18, Jul'19</i>
Rackham Graduate Student Research Grant , University of Michigan Rackham Graduate School	<i>Oct'18, Apr'19</i>
Rackham International Student Fellowship , University of Michigan Rackham Graduate School	<i>Dec'18</i>
Victor and William Fung Fellowship , Harvard University	<i>Jul'16</i>
Leslie Silverman Fund , Harvard T.H. Chan School of Public Health	<i>Jun'16</i>
First Prize Winner in 2014 Annual Undergraduate Research (Top 1), Peking University	<i>Oct'14</i>
Tie Han Scholarship , Peking University College of Urban and Environmental Sciences	<i>Sep'14</i>
Wusi Fellowship , Peking University College of Urban and Environmental Sciences	<i>Sep'13</i>
First Prize Scholarship , Peking University	<i>Dec'11</i>
Outstanding Volunteer , Xinjiang Yarp Anti-Drug and AIDS Prevention Network	<i>Aug'11</i>
Ranked 1st in 2011 National Higher Education Entrance Examination , China Xinjiang	<i>Jun'11</i>

PUBLICATIONS

1. Tung, MT., Ashrap, P., Watkins, DJ., Mukherjee, B., Rosario, Z., Vélez-Vega, CM., Alshwabkeh, A., Cordero, JF., Meeker, JD., 2020. Maternal lipidomic profiling of pregnancy outcomes reveals unique lipid signatures for spontaneous preterm birth and large-for-gestational age neonates. *Journal of Lipid Research*, (under review).

2. **Ashrap, P.**, Aker, A., Watkins, DJ., Mukherjee, B., Rosario, Z., Vélez-Vega, CM., Alshawabkeh, A., Cordero, JF., Meeker, JD., 2020. Psychosocial status modifies the effect of maternal blood metal and metalloid concentrations on birth outcomes. *Environment International*, (under review).
3. **Ashrap, P.**, Watkins, DJ., Milne, GL., Ferguson, KK., Loch-Carusio, R., Fernandez, J., Rosario, Z., Vélez-Vega, CM., Alshawabkeh, A., Cordero, JF., Meeker, JD., 2020. Maternal blood and urinary metal and metalloid concentrations in association with oxidative stress biomarkers. *International Journal of Hygiene and Environmental Health*, (under review).
4. Rivera-Núñez, Z., **Ashrap, P.**, Barrett, ES., Watkins, DJ., Cathey, AL., Vélez-Vega, CM., Rosario, Z., Cordero, JF., Alshawabkeh, A., Meeker, JD., 2020. Association of biomarkers of exposure to metals and metalloids with maternal hormones in pregnant women from Puerto Rico. *Environment International*, (accepted).
5. **Ashrap, P.**, Meeker, JD., Sánchez, BN., Basu, N., Tamayo-Ortiz, M., Solano-González, M., Mercado-Carsía, A., Téllez-Rojo, MM., Peterson, KE., Watkins, DJ., 2020. In utero and peripubertal metals exposure in relation to reproductive hormones and sexual maturation and progression among boys in Mexico City. *Environmental Health*, 19(1):124.
6. **Ashrap, P.**, Watkins, DJ., Mukherjee, B., Boss, J., Richards, MJ., Rosario, Z., Vélez-Vega, CM., Alshawabkeh, A., Cordero, JF., Meeker, JD., 2020. Maternal blood metal(loid) concentrations in association with birth outcomes in Northern Puerto Rico. *Environment International*, 138, p.105606.
7. **Ashrap, P.**, Watkins, DJ., Mukherjee, B., Boss, J., Richards, MJ., Rosario, Z., Vélez-Vega, CM., Alshawabkeh, A., Cordero, JF., Meeker, JD., 2020. Profile and predictors of urinary and blood metal(loid) concentrations among pregnant women in northern Puerto Rico. *Environmental Research*, 183, p.109178
8. **Ashrap, P.**, Sánchez, BN., Téllez-Rojo, MM., Basu, N., Tamayo-Ortiz, M., Peterson, KE., Meeker, JD., Watkins, DJ., 2019. In utero and peripubertal metals exposure in relation to reproductive hormones and sexual maturation and progression among girls in Mexico City. *Environmental Research*, 177, p.108630.
9. Rodríguez-Carmona, Y., **Ashrap, P.**, Calafat, AM., Ye, X., Rosario, Z., Bedrosian LD., Huerta-Montanez G., Vélez-Vega, CM., Alshawabkeh, A., Cordero, JF., Meeker, JD., Watkins, DJ., 2019. Determinants and characterization of exposure to phthalates, DEHP and DINCH among pregnant women in the PROTECT birth cohort in Puerto Rico. *Journal of Exposure Science and Environmental Epidemiology*, 30(1), pp.56-69.
10. **Ashrap, P.**, Watkins, DJ., Calafat, AM., Ye, X., Rosario, Z., Brown, P., Vélez-Vega, CM., Alshawabkeh, A., Cordero, JF., Meeker, JD., 2018. Elevated concentrations of urinary triclocarban, phenol, and paraben among pregnant women in northern Puerto Rico: predictors and trends. *Environment International*, 121, pp.990-1002.
11. **Ashrap, P.**, Zheng, G., Wan, Y., Li, T., Hu, W., Li, W., Zhang, H., Zhang, Z. and Hu, J., 2017. Discovery of a widespread metabolic pathway within and among phenolic xenobiotics. *Proceedings of the National Academy of Sciences*, 114(23), pp.6062-6067.

PRESENTATIONS

1. Maternal Urinary Phthalate Metabolites are Associated with Lipidomic Profiles among Pregnant Women in Puerto Rico, Annual Conference of the International Society for Environmental Epidemiology, Aug 2020, Washington, D.C, (**E-poster**).
2. Profile and Predictors of Urinary and Blood Metal(loid) Concentrations among Pregnant Women in Northern Puerto Rico, Annual Meeting of the NIEHS Superfund Research Program (SRP), Nov 2019, Seattle, WA (**Poster**).
3. Maternal Blood Metal Levels in Association with Birth Outcomes in Northern Puerto Rico, Academic Pediatric Association Environmental Health Scholars Annual Retreat. Nov 2019, Providence, RI (**Oral**).
4. Maternal Blood Metal Levels in Association with Birth Outcomes in Northern Puerto Rico, Annual Conference of the International Society for Environmental Epidemiology, Aug 2019, Utrecht, Netherlands (**Poster**).

5. Predictors of Urinary Phenol and Paraben Concentrations among Pregnant Women in Northern Puerto Rico, Annual Meeting of the NIEHS Superfund Research Program (SRP), Nov 2018, Sacramento, CA (**Poster**).
6. In utero and Peripubertal Metals Exposure in Relation to Reproductive Hormones and Sexual Maturation in Girls, Annual Conference of the International Society for Environmental Epidemiology. Aug 2018. Ottawa, Canada (**Oral**).
7. Predictors of Urinary Phenol and Paraben Concentrations among Pregnant Women in Northern Puerto Rico. Annual Conference of the International Society for Environmental Epidemiology. Aug 2018. Ottawa, Canada (**Poster**).

JOURNAL PEER REVIEWER

Environmental Science & Technology
Environmental Research

Nov'18 – present
Sep'20 – present

MENTORING EXPERIENCE

Yvonne Wu , Bachelor student, University of Michigan School of Public Health	<i>Sep'17 – Apr'20</i>
Nicholas Miller , Bachelor student, University of Michigan School of Public Health	<i>Sep'18 – May'19</i>
Nuha Mahmood , Bachelor student, University of Michigan School of Public Health	<i>Sep'17 – May'18</i>
Halimat Olaniyan , Bachelor student, University of Michigan School of Public Health	<i>Sep'17 – May'18</i>
Kofoworola Onagbola , Master student, Harvard T.H. Chan School of Public Health	<i>Aug'16 – May'17</i>
Qianxin Gu , Master student, Harvard T.H. Chan School of Public Health	<i>Aug'16 – May'17</i>

MEMBERSHIPS

Member, International Society for Environmental Epidemiology	<i>May'18 – present</i>
Student Ambassador, University of Michigan School of Public Health	<i>Sep'17 – present</i>
Member, Michigan Women in Health Leadership	<i>Aug'17 – Sep'18</i>
Member, Women in Leadership Organization in Harvard T.H. Chan School of Public Health	<i>Sep'15 – Jun'16</i>
Member, Environmental Sustainability Group in Peking University	<i>Mar'12- Sep'14</i>

RESEARCH & TECHNICAL SKILLS

- Has expertise in public health, environmental health, exposure assessment, environmental epidemiology, quantitative research
 - Has rigorous experience research design, translating evidence-based scientific research to inform decision-making; grant writing; and communicating science to both specialized and popular audiences
 - Possess strong technical skills including longitudinal analysis, predictive modeling, machine learning, and advanced data analysis using data mining and visualization tools: R, Stata, SPSS, SAS, big data cluster Unix/Linux platforms, Tableau, GraphPad Prism, Origin, Analytica
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