

# PAHRIYA ASHRAP (PAHELIYA AIXILAFU)

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## EDUCATION

University of Michigan School of Public Health – Ann Arbor, MI

*Expected 2021*

*Doctor of Philosophy (Ph.D.) in Environmental Health Sciences*

Harvard T.H. Chan School of Public Health – Boston, MA

*Master of Science (M.S.) in Environmental Health*

*Aug 2015 – May 2017*

- Cumulative GPA: 3.94/4.0
- Program: Environmental Exposure, Epidemiology & Risk Assessment

College of Urban and Environmental Sciences, Peking University (PKU) – Beijing, China

*Sep 2011 – July 2015*

*Bachelor of Science in Environmental Science*

- Cumulative GPA: 3.5/4.0
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## RESEARCH EXPERIENCE

Graduate Research Assistant – University of Michigan School of Public Health – Ann Arbor

*Sept 2017 – present*

PI: Prof. John Meeker

- Conducted independent project and published paper, entitled: “In Utero and Peripubertal Metals Exposure in Relation to Reproductive Hormones and Sexual Maturation and Progression among Girls in Mexico City”
- Conducted independent project and published paper, entitled: “Elevated concentrations of urinary triclocarban, phenol, and paraben among pregnant women in northern Puerto Rico: predictors and trends”
- Performed data analysis of a project and published paper: “Determinants and characterization of exposure to phthalates, DEHP and DINCH among pregnant women in the PROTECT birth cohort in Puerto Rico”
- Investigate the reproductive effects of metal exposure among pregnant women in Puerto Rico
  - Identified the predictors (demographic characteristics, personal care product use) of prenatal metal exposure
  - Characterized the relationships between metals exposure and markers of oxidative stress
  - Explored the association between prenatal metal exposure and birth outcomes (preterm birth, birth weight)

Graduate Research Assistant – Harvard T.H. Chan School of Public Health, Boston

*May 2016 – May 2017*

PI: Prof. Elsie Sunderland

- Conducted independent project: “the Analysis of Nutritional Modifiers of Methylmercury Uptake”
  - Compared dietary data and biomarkers of all frequent-fish consumers across multiple cohorts, including Nurse’s Health Study I
  - Used Hg isotope signatures of biomarkers to evaluate potential dietary recall
  - Conducted statistical analysis to elucidate potential food modifiers for reducing MeHg absorption

Graduate Research Assistant – Harvard T.H. Chan School of Public Health, Boston

*July 2016 – Sept 2016*

PI: Prof. Joel Schwartz

- Co-investigated “Meta-Analysis of the association between exposure to air pollution from traffic sources and cognition”

- Compiled studies for meta-analysis from databases (Pubmed, Embase, Environmental Index, Web of Science) that met inclusion criteria.
- Systematically reviewed selected articles and extracted data for the analysis

**Undergraduate Research Assistant** –Key Laboratory for Earth Surface Processes, Peking University Jan 2013 – June 2015

**PI: Prof. Yi Wan**

- Published paper: “Pathway Discovery of a Widespread Metabolic Pathway within and among Phenolic Xenobiotics”
  - Established methods for in vitro metabolism of Triclosan (TCS) in various species, including humans
  - Developed simultaneous analytical method for TCS and its metabolites on GC-MS and UPLC-QTOF-MS.
  - Identified the biotransformation products of TCS responsible for the CAR activities and liver toxicities.

## PUBLICATIONS

**Ashrap, P.**, Watkins, DJ., Mukherjee, B., Boss, J., Richards, MJ., Rosario, Z., Vélez-Vega, CM., Alshawabkeh, A., Cordero, JF., Meeker, JD., 2019. Maternal Blood Metal(loid) Concentrations in Association with Birth Outcomes in Northern Puerto Rico. *Environment International* (under review)

**Ashrap, P.**, Watkins, DJ., Mukherjee, B., Boss, J., Richards, MJ., Rosario, Z., Vélez-Vega, CM., Alshawabkeh, A., Cordero, JF., Meeker, JD., 2019. Profile and Predictors of Urinary and Blood Metal(loid) Concentrations among Pregnant Women in Northern Puerto Rico. *Environmental Research*, p.109178

**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.

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, DEHTP and DINCH among pregnant women in the PROTECT birth cohort in Puerto Rico. *Journal of Exposure Science and Environmental Epidemiology*, pp. 1-14.

**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.

**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

**Ashrap, P.**, Watkins, DJ., Mukherjee, B., Boss, J., Richards, MJ., Rosario, Z., Vélez-Vega, CM., Alshawabkeh, A., Cordero, JF., Meeker, JD., 2019. Profile and Predictors of Urinary and Blood Metal(loid) Concentrations among Pregnant Women in Northern Puerto Rico. **Poster presentation** at the 2018 Annual Meeting of the NIEHS Superfund Research Program (SRP). Nov 18. Seattle, US.

**Ashrap, P.**, Watkins, DJ., Mukherjee, B., Boss, J., Richards, MJ., Rosario, Z., Vélez-Vega, CM., Alshawabkeh, A., Cordero, JF., Meeker, JD., 2019. Maternal Blood Metal levels in Association with Birth Outcomes in Northern Puerto Rico. **Oral presentation** at the Academic Pediatric Association Environmental Health Scholars Annual Retreat. Nov 2. Providence, US.

**Ashrap, P.**, Watkins, DJ., Mukherjee, Rosario, Z., Vélez-Vega, CM., Alshawabkeh, A., Cordero, JF., Meeker, JD., 2019. Maternal Blood Metal levels in Association with Birth Outcomes in Northern Puerto Rico. **Poster presentation** at the International Society for Environmental Epidemiology Annual Meeting. August 26. Utrecht, Netherlands.

**Ashrap, P.**, Watkins, DJ., Sánchez, BN., Téllez-Rojo, MM., Tamayo-Ortiz, M., Peterson, KE., Meeker, JD., 2018. In utero and peripubertal metals exposure in relation to reproductive hormones and sexual maturation in girls. **Oral presentation** at the International Society for Environmental Epidemiology Annual Meeting. August 27. Ottawa, Canada.

**Ashrap, P.**, Watkins, DJ., Calafat, AM., Ye, X., Rosario, Z., Brown, P., Vélez-Vega, CM., Alshawabkeh, A., Cordero, JF., Meeker, JD., 2018. Predictors of urinary phenol and paraben concentrations among pregnant women in northern Puerto Rico. **Poster presentation** at the International Society for Environmental Epidemiology Annual Meeting. August 26. Ottawa, Canada.

**Ashrap, P.**, Watkins, DJ., Calafat, AM., Ye, X., Rosario, Z., Brown, P., Vélez-Vega, CM., Alshawabkeh, A., Cordero, JF., Meeker, JD., 2018. Predictors of urinary phenol and paraben concentrations among pregnant women in northern Puerto Rico. **Poster presentation** at the 2018 Annual Meeting of the NIEHS Superfund Research Program (SRP). November 28. Sacramento, US.

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## WORK EXPERIENCE

**Tutor**– Language Resource Center, University of Michigan College of Literature, Science, and the Arts *Apr 2019 – present*

- Tutor students in “Middle East Languages 450: Introductory Uyghur” class on a one to one basis

**Lecturer**– Qarluq Education Department at Qarluq Media Tech Co., Ltd, Urumqi, China *July 2017 – August 2017*

- Gave lectures on the application of Computer Science and Biostatistics in Public Health

**Instructor** – Ijtahat Education, Urumqi, China *May 2017 – July 2017*

- Taught Chinese high school mathematics on Ijtihat online education: <http://ijtihat.com/>

**President**- Western Region’s Culture Communication Association, Peking University, Beijing *Mar 2013- Sept 2014*

- Created PKU Minority (Uyghur) Mother-tongue Learning Group, taught Uyghur in a weekly corner
- Organized lectures and film screenings about western region’s culture
- Founded the first and second “Peking University Minority Ethnic Culture Festival” (2013, 2014)
- **Awarded top 10 Student Association at Peking University**

**Volunteer Teacher**- Volunteer Team of Peking University, Beijing *Mar - July 2012*

- Taught English and handwork classes in a school for children of migrant workers

**Volunteer and Journalist**- Xinjiang Yarp Anti-Drug and AIDS Prevention Network, Beijing *Sept 2008 – present*

- Participated in anti-drug and AIDS prevention campaigns and investigations
- Translated anti-drug and AIDS prevention articles from Chinese to Uyghur and uploaded for a bilingual website

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## MENTORING EXPERIENCE

**Nicholas Miller** Senior Student, University of Michigan School of Public Health *Sept 2018 – Sept 2019*

**Yvonne Wu** Junior Student, University of Michigan School of Public Health *Sept 2017 – May 2018*

**Nuha Mahmood** Junior Student, University of Michigan School of Public Health *Sept 2017 – May 2018*

**Halimat Olaniyan** Junior Student, University of Michigan School of Public Health *Sept 2017 – May 2018*

**Kofoworola Onagbola** Master in Public Health, Harvard T.H.Chan School of Public Health *Aug 2016 – May 2017*

**Qianxin Gu** Master of Science, Harvard T.H.Chan School of Public Health *Aug 2016 – May 2017*

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## MEMBERSHIPS

Student Ambassador, University of Michigan School of Public Health *Sept 2017 – present*

Vice president, Public Health Sustainability Initiative	<i>Aug 2017 – present</i>
Michigan Women in Health Leadership	<i>Aug 2017 – Sept 2018</i>
Women in Leadership Organization in Harvard T.H. Chan School of Public Health	<i>Sept 2015 – June 2016</i>
Harvard Chinese Students and Scholars Association (HCSSA)	<i>Sept 2015 – Mar 2016</i>
“Forest Song” Environmental Group in Peking University	<i>Mar 2012- Sept 2014</i>
The Volunteer Team of Peking University, Beijing	<i>Mar 2012 - June 2013</i>

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## HONORS & AWARDS

Rackham Conference Travel Grant	<i>July 2019</i>
Rackham Graduate Student Research Grant	<i>Apr 2019</i>
Rackham International Student Fellowship	<i>Dec 2018</i>
Rackham Graduate Student Research Grant	<i>Oct 2018</i>
Rackham Conference Travel Grant	<i>July 2018</i>
Victor and William Fung Fellowship, Harvard University	<i>June 2016</i>
Leslie Silverman Fund, Harvard T.H. Chan School of Public Health	<i>July 2016</i>
First Prize Winner in 2014 Annual Undergraduate Research, Peking University (Top 1)	<i>Oct 2014</i>
Tie Han Scholarship, Peking University (top 4%)	<i>Sept 2014</i>
Wusi Fellowship, Peking University (top 4%)	<i>Sept 2013</i>
First Prize Scholarship, Peking University	<i>Dec 2011</i>
Outstanding Volunteer, Xinjiang Yarp Anti-Drug and AIDS Prevention Network	<i>Aug 2011</i>
Ranked 1st in 2011 National Higher Education Entrance Examination, Xinjiang China	<i>Jun 2011</i>

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## SKILLS

**Languages:** Fluent in English, Uyghur (native), Chinese (native), and Turkish, Basic knowledge of Arabic

**Lab:** Solid-phase extraction, Column Chromatography, *In vitro* Metabolism, GC-MS, LC-MS, UPLC-QTOF-MS, DNA/RNA Extraction and Purification, PCR, RT-PCR, DNA Electrophoresis, Microbial Cultivation, Fish Dissection, DMA

**Computer:** R, SAS, STATA, SPSS, GraphPad Prism, Primer Premier, MarkerLynx, Masslynx, Unix/Linux, Microsoft Office, BMDS, Origin, Analytica

**Interests:** Table Tennis, Ballroom Dances, Zumba, Swimming, Yoga