PAHELIYA AIXILAFU (PAHRIYA ASHRAP)

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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

- Cumulative GPA: 3.5/4.0
- Major: Environmental Science

RESEARCH EXPERIENCE

Graduate Research Assistant – Harvard T.H. Chan School of Public Health, Boston *May 2016 – May 2017*

PI: Prof. Elsie Sunderland

- Conducted independent project titled "the Analysis of Nutritional Modifiers of Methylmercury Uptake"
  - Compared dietary data and biomarker 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 *Sept 2016 – July 2016*

PI: Prof. Joel Schwartz

- Secondary investigator of the analysis titled "Meta-Analysis of the association between exposure to air pollution from traffic sources and cognition"
  - Both primary and secondary investigator independently finished article searching and data extraction.
  - Obtained articles from searching on few databases including Pubmed (Medline Ovid), Embase, Environmental Index, Web of Science and hand selected literatures using inclusion and exclusion criteria
  - Systematically reviewed articles and extracted coefficients and other variables of interest

Undergraduate Research Assistant –Key Laboratory for Earth Surface Processes, Peking University *Jan 2009 – June 2015*

PI: Prof. Yi Wan

- Established methods for in vitro metabolism of Triclosan(TCS) in various species including human
- 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 subsequent liver toxicities; the yeast two-hybrid assay was used to test the binding activity of Triclosan and its metabolites with CAR receptor.
- Finished the manuscript of the paper titled "Pathway Discovery of a Widespread Metabolic Pathway within and among Phenolic Xenobiotics"

Core member of the course project in Risk Assessment of Toxicants class –PKU, Beijing *Sept 2013 – Jan 2014*

- Calculated the distribution of children's blood lead level with IEUBK model
- Using nationwide data of children's blood lead levels, ascertained that the incidence of MMR increased 0.73% and reduced IQ in Chinese children resulting from blood lead concentration is 0.5239. Evaluated DALYs lost of lead exposure for children
- Wrote a term paper named "Health Risk Assessment of Lead Levels for Children in China"

Leader of the course project in Environmental Toxicology class –Peking University, Beijing *June 2013*

- Isolated RNA produced by CYP genes from loach liver and replicated them with degenerate primers which are our own design.
- Used Q-RT-PCR and DNA electrophoresis techniques to examine the expression levels of these CYP genes

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PUBLICATION SUBMISSION

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*, p.201700558.

WORK EXPERIENCE

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

- Taught Chinese high school mathematics on Ijtahat online education: http://ijtihat.com/

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 Statistics

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VOLUNTEER EXPERIENCES & EXTRACURRICULAR ACTIVITIES

Volunteer and Journalist *Sept 2008 – present*

Xinjiang Yarp Anti-Drug and AIDS Prevention Network, Beijing

- Participated in anti-drug and AIDS prevention propagandas and investigations
- Translated articles related to anti-drug and AIDS prevention knowledge from Chinese to Uyghur and uploaded them to Yarp website

Member of Women in Leadership Organization in Harvard T.H. Chan School of Public Health *Sept 2015 – June 2016*

Member of Harvard Chinese Students and Scholars Association (HCSSA) *Sept 2015 – Mar 2016*

President of Students Association *Mar 2013- Sept 2014*

Western Region's Culture Communication Association, Peking University, Beijing

- Organized PKU Minority (Uyghur) Mother-tongue Learning Group, teach Uyghur in weekly corner
- Organized lectures and film appreciations about western region's culture
- Initiated and held the first and second "Peking University Minority Ethnic Culture Festival"
- **Awarded top 10 Student Association at Peking University**

HONORS & AWARDS

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

SKILLS

Languages: Fluent in English, Uyghur (native) and Chinese (native). Basic knowledge of Turkish, 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, Salsa, Zumba, Swimming, Yoga, Piano