**CONGQIAO YANG**

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**Environmental Engineer or Scientist (Intermediate Associate) - 30 Forensic Engineering**

Dear Sir or Madam,

With serious interest and strictest confidence, I am applying for the Environmental Engineer or Scientist (Intermediate Associate). I believe my personal experience is a good match to this position.

As a Post-doctoral Fellow at University of Toronto, I am working as a leading researcher on Canadian government initiated and supported research projects: Ontario Environment and Health Study of Breast Cancer Patients; and Canadian Chemical Manage Plan. These projects have provided me the unique opportunities to work closely and efficiently with professionals from University of Toronto, Health Canada, Cancer Care Ontario, and Environment and Climate Change, Canada. I have sampled, processed, and analyzed thousands of samples, and provided Canadian government with essential benchmark data on organic contaminants in Canadian homes and related health risk assessments, to facilitate the implementation of chemical management. I can handle highly confidential and sensitive material and situations, and working in high-pressure environment. I have excellent oral and written communication skills as well as presentation skills.

I have gained with honor my PhD., Master, and Bachelor degrees in Environmental Science & Chemistry. Over 12 years’ researching experience in leading research laboratories has provided me expertise in delivering best quality data following strictest QA & QC. My work had ranked on the top in a well-reputed international research study evaluating accuracy and precision in analysis of organic chemicals. I have excellent hands-on knowledge of various analytical instruments for physical and chemical analysis. I have over 5 years’ experience in good laboratory management, and training and supervising new team members.

I have experience with drafting, validation, and qualification proposals/reports. I have gained strong experience with statistical analysis of research data, interpretation of research findings, and scientific writing and presenting - so far a total of 18 top/high quality research publications in highly-ranked peer-reviewed scientific journals, and many presentations at academic conferences.

I am fast-learning, responsible, ethical, self-motivated, very organized, detail-oriented, and honest. I am capable of prioritizing and simultaneously managing multiple assignments. I have excellent teamwork skills, I would make a positive addition to your team. As well this unique position will definitely advance my career to the next level.

Your time and consideration will be highly respected and appreciated. I welcome the opportunity to discuss this application with you further. Thank you.

Sincerely,

Congqiao Yang

**Resume**

**Highlights of Qualifications**

* Ph.D., Master, and Bachelor degrees in Environmental Science & Chemistry. Strong background in chemistry with primary focus on analytical chemistry.
* Over 12 years’ working experience in leading research labs. Hands-on experiences in good laboratory practice, including method development and validation, standards, techniques, preparation and validation of SOPs ranging from sample processing to instrumental analysis & calibration & maintenance & trouble shooting, and following strictest QA & QC.
* Deliver data with excellent accuracy. Ranked on the top in a well-reputed international research study evaluating accuracy and precision in analysis of chemical contaminates.
* Leading researcher in Health Canada and Cancer Care Ontario initiated and supported research projects. Provided Canadian government with essential benchmark data on organic contaminants in Canadian homes and related health assessments, to facilitate the implementation of chemical management.
* Experience in research project design and implementation towards research goals. Experience in proposal preparation, good scientific writing and presentation skills. Excellent communication skills with colleagues and general public including participants in Ontario Environment and Health Study.
* Over 5 years’ experience in good management practices, including instrumental management, communicating with technical supports and sale representatives for the selection and purchasing of analytical equipment, providing scientific and technical guidance, and supervising new team members.
* Experience in successfully recruiting and supervising research assistants.
* Strong experience with statistical analysis of research data, interpretation of research findings, and scientific writing and presenting. Comprehensive understanding in persistent organic pollutants and evaluation of human exposure.
* Responsible, ethical, motivated, hard-working, very organized, detail-oriented, and honest.

**Professional Experience**

Post-Doctoral Fellow at University of Toronto, Canada, 2014 - Present.

**Collaborators**: **Health Canada** (Ottawa) and **Cancer Care Ontario** (Toronto)

**Main Project**: Ontario Environment and Health Study of Breast Cancer Patients - A comprehensive household exposure study on Semi-volatile organic compounds (SVOCs)

**Sub-Project:** Canadian Chemical Manage Plan - A Government of Canada initiative aimed at reducing the risks posed by chemicals to Canadians and their environment.

**Education**

Ph.D. in Environmental Chemistry. University of Birmingham, Birmingham, UK.  2010-2014

**Thesis:** Persistent Organic Pollutants in Lacustrine Environments

**M.Sc. in Environmental Science.** Minzu University of China, Beijing, China. 2007-2010

Thesis: Environmental Contamination by HBCDs and its Health Effects in a Production Area, China.

**B.Sc. in Environmental Science.** Minzu University of China, Beijing, China. 2003-2007

**Research Project**

* Ontario Environment and Health Study of Breast Cancer Patients - A comprehensive household exposure study on semi-volatile organic compounds (SVOCs) in Canadian homes: levels, sources, pathways of, and human exposure. U of T, Cancer Care Ontario, Health Canada.
* Canadian Chemical Manage Plan: Organophosphorus flame retardants in Canadian homes. *U of T*
* INTERFLAB - An international inter-laboratory study evaluating laboratory performance on accuracy and precision of analyzing novel halogenated flame retardants (HFRs) among 19 academic, government, and commercial laboratories. *U of T.*
* Environmental fate and behaviour of persistent organic pollutants (POPs) in lacustrine environments in the UK. *University of Birmingham, Centre for Environment, Fisheries and Aquaculture Science (Cefas), University College London (UCL), the UK.*
* Hexabromocyclododecane (HBCD) in human serum and correlations with thyroid hormone level. *Minzu University of China, China.*

**Publications in last 10 years**

12. **1st author**. ***2019***. Are cell phones an indicator of personal exposure to organophosphate flame retardants and plasticizers? ***Environ Int.*** <https://doi.org/10.1016/j.envint.2018.10.021>

11.  **1st author**. ***2019***. Trends in hexabromocyclododecanes in the UK and North America. ***Sci Total Environ*.** <https://doi.org/10.1016/j.scitotenv.2018.12.229>

10. **Co-1st author**. **2018**. Passive air sampling of flame retardants and plasticizers in Canadian homes using PDMS, XAD-coated PDMS and PUF samplers. ***Environ. Pollut.*** <https://doi.org/10.1016/j.envpol.2018.03.103>

9. **4th author**. ***2018***. Palaeotoxicity: reconstructing the risk of multiple sedimentary pollutants to freshwater organisms. ***Environ Geochem and Health*.** [https://link.springer.com/article/10.1007%2Fs10653-018-0080-5](https://link.springer.com/article/10.1007/s10653-018-0080-5)

8. **3rd author**. ***2016***. Calibration of polydimethylsiloxane and XAD-pocket passive air samplers for measuring gas- and particle-phase SVOCs indoors. ***Atmos. Environ.***

<https://www.sciencedirect.com/science/article/pii/S1352231016305933?via%3Dihub>

7. **1st author**. ***2016***. Hexabromocyclododecanes, polybrominated diphenyl ethers, and polychlorinated biphenyls in radiometrically dated sediment cores from English lakes, ~1950-present. ***Sci Total Environ***.

<https://doi.org/10.1016/j.scitotenv.2015.09.102>

6. **1st author**. ***2014***. Polybrominated diphenyl ethers (PBDEs) in English freshwater lakes, 2008-2012. ***[Chemosphere](http://www.ncbi.nlm.nih.gov/pubmed/24880597" \o "Chemosphere.)*** <https://doi.org/10.1016/j.chemosphere.2014.03.028>

5. **2nd author**. ***2014***. Correlations between HBCD and thyroid hormone concentrations in human serum from production source area. ***Environ Sci.* (*China*)**.

4. **4th author**. ***2011***. Polybrominated diphenyl ethers in atmosphere and soil of a production area in China: Levels and partitioning. ***Environ Sci*.**  <https://doi.org/10.1016/S1001-0742(10)60427-5>

3. **3rd author**. ***2010***. Human exposure to polybrominated diphenyl ethers at production area, China. ***Environ Toxicol Chem***.

2. **3rd author**. ***2009***. Polybrominated diphenyl ethers in the serum and breast milk of the resident population from production area, China. ***Environ Int****.*

[https://www.sciencedirect.com/science/article/pii/S0160412009001299?via-%3Dihub](https://www.sciencedirect.com/science/article/pii/S0160412009001299?via%3Dihub)

1. **2nd author**. ***2009***. Determination of Hexabromocyclododecane diastereomers in soil by ultra performance liquid chromatography-electrospray ion source /tandem mass spectrometry. ***Chin J Anal Chem***.

<https://doi.org/10.1016/S1872-2040(08)60097-3>

Academic Honors and Awards

* Education Scholarship: University of Birmingham, Birmingham, UK 2010-2013
* Education Scholarship: Minzu University of China, Beijing, China 2007-2010
* Excellent Student Award: Baosteel Education Foundation, China 2009

**Residency Status:** Permanent resident of Canada (PR) **Languages:** English, Mandarin.