

# Leila Tootchi

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## Profile

- Solid background in **environmental engineering**
  - Knowledge of **drinking water treatment processes and technologies**
  - Experience in application of **ozonation process** in transformation of microconstituents during drinking water treatment
  - Well-developed problem solving, analytical, and communication skills
  - Excellent technical writing and presentation skills
  - Outstanding organization and team working skills
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## Education

### **Masters of Applied Science in Environmental Engineering**

*University of Windsor, Windsor, ON*

**2007-2010**

- Thesis title: Effect of ozonation on oxidation of pharmaceuticals in drinking water treatment
- Completed a graduate-level course in **industrial wastewater treatment**

### **Bachelor of Science in Chemical Engineering**

*Sharif University of Technology, Tehran, Iran*

**2001-2006**

- Thesis title: Review of **pollution prevention** – Case study: Water contamination in Sugar Industry
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## Work Experience

### **Research Assistant, University of Windsor/ MOE**

**2007-2010**

- Collaborated with **Ontario Ministry of the Environment (MOE)** in a project on monitoring the effect of ozonation on removal and transformation of emerging contaminants
- Carried out a research study on the presence of pharmaceuticals, personal care products (PPCPs) and endocrine disrupting chemicals (EDCs) in drinking water sources in North and South America and Europe
- Evaluated the application of various advanced treatment processes on removal of PPCPs and EDCs from drinking water
- Investigated the effect of **ozonation** on transformation of selected emerging contaminants in drinking water treatment
- Designed and conducted experiments to investigate the **relative effect of hydroxyl radicals and ozone** on transformation of selected pharmaceutical compounds during ozone treatment of drinking water

- Analyzed and interpreted the effect of several process parameters on **oxidation of parent compounds** and formation of **oxidation by-products** during ozonation of drinking water
- Preliminary results of this study shows that ozonation at typical doses used in drinking water treatment can effectively reduce the level of studied compounds. Successful oxidation of ozonation by-products depends on relative concentration of present oxidants. Some of these by-products are not effectively oxidized by ozonation

**Graduate Teaching Assistant, University of Windsor** **2007-2010**

- Supervised and assisted undergraduate students during their two semester “Capstone Design Project” course, Winter and Summer 2007
- Conducted tutorials, demonstrated laboratory classes and marked assignments in different courses such as Engineering Mechanics and Solid Waste Management,

**Process Engineer, Tehran Petroleum Refinery, Iran** **Summer 2005**

- Worked in a team with other interns on several oil and gas projects and application of distillation towers.
- Conducted onsite industrial surveys on application of distillation towers in petroleum industry

**Junior Engineer, Gilan Combined Cycle Power Plant, Iran** **Summer 2004**

- Assisted engineers in monitoring and adjusting water quality parameters and physico-chemical characteristics of water used in **cogeneration** of electricity
- Provided assistance in operation of **drinking water** and **municipal wastewater treatment** within the plant

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**Technical Skills**

- Proficient in Microsoft Office Word, Excel, PowerPoint and **AutoCAD**
- Working knowledge of handling instruments such as **HPLC**, **TOC Analyzer** and **ozone generator**
- Knowledge of analysis of various water parameters as per APHA standard methods

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**Professional Associations and Memberships**

- Student member of Water Environment Federation (WEF) and Water Environment Association of Ontario (WEAO) **2008- Present**
  - **Executive member** of WEAO Windsor student Chapter, University of Windsor **2008- Present**
  - Associate member of Engineers Without Borders, University of Windsor student chapter **2007-2010**
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