



## Curriculum Vitae

# Maricor Jane Arlos, Ph.D.

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## SUMMARY OF QUALIFICATIONS

- Multidisciplinary approach to addressing water research issues with a novel combination of methods from different disciplines.
- Skillful knowledge of fate and transport modeling of emerging contaminants in aquatic ecosystems.
- Strong skills in organizing workflow, ideas, materials, and people, as demonstrated by 5 first-author scientific manuscripts published (in high-impact water research journals) during the Ph.D. studies.
- Recognized for outstanding mentorship skills as proven by the receipt of two Teaching Assistantship awards and high teaching evaluation during a sessional lectureship.
- Exceptional work ethics as shown by frequent renewals of co-operative work-term contracts.

## EDUCATIONAL BACKGROUND

- 2014 – 2018 **Doctor of Philosophy, Biology - Collaborative Water Program**  
University of Waterloo, Department of Biology.  
Supervisors: Dr. Mark Servos and Dr. Susan Andrews (University of Toronto)  
Thesis: "Modeling the emission, transport, and fate of key micropollutants and their treatment using novel titanium dioxide nanomaterials"
- 2011 – 2013 **Master of Applied Science, Civil Engineering**  
University of Waterloo, Civil and Environmental Engineering Department.  
Supervisors: Dr. Wayne Parker and Dr. Mark Servos  
Thesis: "Characterization and modeling of selected antiandrogens and pharmaceuticals in highly impacted reaches of Grand River watershed in southern Ontario"
- 2006 – 2011 **Bachelor of Applied Science in Environmental Engineering, Co-op, Water Resources**  
University of Waterloo, Civil and Environmental Engineering Department

## RESEARCH EXPERIENCE

### 04.2018 – Present, ETH-Z, *Postdoctoral Research Scientist*

- Awarded funding from two prestigious postdoctoral fellowships: (1) ETH-Z and (2) Natural Sciences and Engineering Research Council of Canada (NSERC).
- Conducts research in collaboration with world-renowned scientists and engineers at Eawag, Department of Environmental Chemistry.
- Develops water quality model coupled to a toxicokinetic model that will elucidate the mechanistic linkages between environmental exposure and field-observed effects
- Major research tasks include (but not limited to):
  - Assembling various mathematical models using a Python-based programming language.
  - Designing and conducting field work (water and biota sampling) to support the modeling project.
  - Analysing micropollutant concentrations in water and biota (gammarids) using highly sophisticated analytical methods such as the liquid-chromatography, high-resolution mass spectrometry (LC-MS/MS).

#### **01.2014 – 01.2018, University of Waterloo, Department of Biology, *PhD Thesis***

- Awarded the **William B. Pearson Medal** for creative doctoral research.
- Awarded funding from NSERC PGS-D3 and was supplemented by the President's Graduate Scholarship.
- Resulted in 8 publications with **5 first-author** publications.
- Completed the degree in a multi-disciplinary environment that employed bench-scale experiments on nanomaterials (water treatment) and surface water quality modeling (exposure science).
- Modeled the distribution of wastewater-derived endocrine disrupting compounds (EDCs) in the Grand River watershed in southern Ontario and linked the concentrations to the field-observed intersex conditions in native fish species.
- Investigated the potential use of nanotechnology in overcoming the treatment challenges associated with emerging contaminants.

#### **09.2011 – 09.2013, University of Waterloo, Civil and Environmental Engineering, *Master's Thesis***

- Evaluated the spatial and temporal variability of emerging contaminants urban wastewater treatment plants and surface waters of the Grand River watershed through the (1) development of analytical methods to quantify concentrations of emerging contaminants in environmental samples and (2) prediction of the fate of selected pharmaceuticals and antiandrogens associated with a major wastewater outfall in the watershed.
- Resulted in **2 first-author** publications

### **RESEARCH FUNDING**

2018 – 2020	ETH-Zurich Postdoctoral Fellowship (PDF), Period: 2 years, Value: CHF 205,600
2018 – 2020	NSERC PDF, Period: 2 years, Value: 90,000 CAD
2015 – 2018	NSERC PGS-D, Period: 3 years, Value: 63,000 CAD
2015 – 2018	UW President's Graduate Scholarship, Period: 3 years, Value: 30,000 CAD

### **TEACHING EXPERIENCE**

#### **05 to 08.2017, Sessional Lecturer, Advanced Mathematics, ENVE 321 Civil and Environmental Engineering, University of Waterloo, Waterloo, Ontario**

- Invited by the Department of Civil and Environmental Engineering to teach a course ("Introduction to Water Quality Modeling") to 59 third year environmental and geological engineering students.
- Employed different teaching methods to address all learning styles (including field trips and tutorials).
- Achieved a professor score of 4.6/5 in the course evaluation completed by the students, with oral presentation, quality of teaching, and organization as top-rated categories.

#### **03 to 06.2017, Water Mentor, AquaHacking 2017 Water Institute, Waterloo, Ontario**

- Provided mentorship to the participants on the challenges outlined by the AquaHacking 2017 – United for Lake Erie through facilitated discussion and technical coaching related to their target hacking solutions.
- Co-ordinated with the de Gaspé Beaubien Foundation (funding organization) in providing technical and online support relating to the hacking challenges.

#### **2015 & 2016, Teaching Intern for WATER 602 Collaborative Water Program, University of Waterloo, Waterloo, Ontario**

- Developed the course materials in cooperation with the course instructors and other teaching interns.
- Collaborated with the course instructors with the field trip planning and course development.
- Provided technical support during the trip such as transport and food logistics.

#### **2011, 2013 –2017, Teaching Assistant (Total 12 semesters) Environmental Toxicology, Immunology, Plant Biology, Environmental Resource Management, and Environmental Chemistry University of Waterloo, Waterloo, Ontario**

- Recipient of the Teaching Assistant Award in 2013 (Environmental Engineering) and 2017 (Biology)
- Reviewed the course concepts with students through a mini-lecture environment.
- Supervised laboratory sessions and enforced health and safety regulations on the students.

## INDUSTRY EXPERIENCE

### **2009, 2010, 2011, Junior Environmental Professional, SNC Lavalin Environment Canada, British Columbia**

- Invited to return for three co-op placements.
- Performed field work as required by environmental monitoring and remediation projects
- Investigated a leaking/defective underground liner in a petroleum storage facility, a task that was primarily given to intermediate environmental professionals, not necessarily to interns and co-op students.
- Recognized for great attention to detail as displayed by solid quality assurance/quality control checks required for data in a high-volume engineering construction environment.

### **01.2009 – 04.2009, Environmental Engineering Assistant, Dillon Consulting Ltd., Canada, Ontario**

- Analyzed contaminant migration in municipal landfills.
- Forecasted contaminant concentration in municipal landfills through trend analyses.
- Performed QA/QC for laboratory analyses to maintain the quality level of engineering drawings and reports.
- Assisted in various administrative duties such as word processing and library inventory.

### **05.2008 – 08.2008, Environmental Engineering Assistant, Engconsult Ltd., Canada, Brampton, Ontario**

- Prepared environmental assessment reports for road projects in Afghanistan, Indonesia, and Philippines in collaboration with Engconsult Ltd.'s Environmental Specialist.
- Evaluated environmental impacts caused by soil erosion, slope stability, air, water and noise pollution, rock blasting, de-mining, as well as impacts on the ecological and socioeconomic environment of a 160-km 2-lane national highway project in Afghanistan.

### **01.2007 – 04.2007, Environmental Engineering Assistant, Nemark of Canada, Windsor, Ontario**

- Performed daily checks of environmental equipment within the plant
- Monitored daily Melt Shop activities for the improvement of aluminum casting production.
- Assisted in the generation of quarterly reports such as National Pollutant Report Inventory and waste tracking.

## PUBLICATIONS

### **Articles published in refereed journals**

10. **Arlos M.J.**, Parker, W.J., Bicudo, J. R., Law, P., Hicks, K.A., Fuzzen, M.L.M, Andrews, S.A., and Servos, M.R., (2018) Modeling the exposure of wild fish to endocrine active chemicals: linkages of total estrogenicity to field-observed intersex. *Wat. Res.* 139:187-197.
9. **Arlos, M.J.**, Parker, W.J., Bicudo, J.R., Law, P., Marjan, P., Andrews, S.A., and Servos, M.R. (2018). Multi-year prediction of estrogenicity in municipal wastewater effluents. *Sci. Tot. Environ.* 610-611:1103-1112.
8. **Arlos, M.J.**, Liang, R., Fong L.C.L., Zhou, N.Y., Andrews, S. A., Servos, M.R. (2017) Influence of methanol when used as a water-miscible carrier of pharmaceuticals in TiO<sub>2</sub> photocatalytic degradation experiments. *J. Environ. Chem. Eng.*, 5(5): 4497-4504.
7. Liang, R., Fong, L.C.L., **Arlos, M.J.**, Van Leeuwen, J., Shahnam, E., Peng, P., Servos, M., Zhou, Norman Y. (2017) Photocatalytic degradation using one-dimensional TiO<sub>2</sub> and Ag-TiO<sub>2</sub> nanobelts under UV-LED controlled periodic illumination. *J. Environ. Chem. Eng.* 5(5):4365-4373
6. Hatat-Fraile M. M., Liang. R., **Arlos, M.J.**, He, R. X., Peng, P., Servos, M.R., Zhou, N. Y. (2017) Concurrent photocatalytic and filtration processes using doped TiO<sub>2</sub> coated quartz fiber membranes in a photocatalytic membrane reactor. *Chem. Eng. J.* 330(1), 531-540
5. Hicks, K.A., Fuzzen, M.L.M., McCann, E.K., **Arlos, M.J.**, Bragg, L.M., Kleywegt, S., Tetreault, G.R., McMaster, M.E. and Servos, M.R. (2017) Reduction of Intersex in a Wild Fish Population in Response to Major Municipal Wastewater Treatment Plant Upgrades. *Environ. Sci. Technol.* 51(3), 1811-1819.
4. **Arlos, M.J.**, Liang, R., Hatat-Fraile, M.M., Bragg, L.M., Zhou, N.Y., Servos, M.R. and Andrews, S.A. (2016) Photocatalytic decomposition of selected estrogens and their estrogenic activity by UV-LED irradiated TiO<sub>2</sub> immobilized on porous titanium sheets via thermal-chemical oxidation. *J. Hazard. Mater.* 318(1), 541-550.

3. **Arlos, M.J.**, Hatat-Fraile, M.M., Liang, R., Bragg, L.M., Zhou, N.Y., Andrews, S.A. and Servos, M.R. (2016) Photocatalytic decomposition of organic micropollutants using immobilized TiO<sub>2</sub> having different isoelectric points. *Water Res.* 101, 351-361.
2. **Arlos, M.J.**, Bragg, L.M., Parker, W.J. and Servos, M.R. (2015) Distribution of selected antiandrogens and pharmaceuticals in a highly impacted watershed. *Water Res.* 72(1), 40-50.
1. **Arlos, M.J.**, Bragg, L.M., Servos, M.R. and Parker, W.J. (2014) Simulation of the fate of selected pharmaceuticals and personal care products in a highly impacted reach of a Canadian watershed. *Sci. Tot. Environ.* 485–486(1), 193-204.

#### **Refereed Proceedings and Abstracts:**

2. Liang, R., Hatat-Fraile, M., He, H., **Arlos, M.**, Servos, M.R., Zhou, Y.N., 2015. TiO<sub>2</sub> membranes for concurrent photocatalytic organic degradation and corrosion protection, SPIE Nanoscience+ Engineering. International Society for Optics and Photonics, pp. 95450M-95450M-95456.
1. Liang, R., Hatat-Fraile, M., **Arlos, M.**, Servos, M., Zhou, Y.N., 2014. TiO<sub>2</sub> nanowires membranes for the use in photocatalytic filtration processes, Nanotechnology (IEEE-NANO), 2014 IEEE 14th International Conference on. IEEE, pp. 975-980.

#### **Articles published in scientific magazines**

1. **Arlos, M.J.**, Parker, W.J., Andrews, S.A., Servos, M.R. Relationship between Estrogens and Intersex in a Major Lake Erie Tributary: A Modeling Approach. *Influents*. Water Environment Association of Ontario. Volume 2, Summer 2017. pp. 52-55.

#### **Selected non-refereed contributions (oral and poster presentations):**

##### **A) Invited Talks:**

3. **Arlos, M.J.**, “Modeling the exposure of wild fish to endocrine disrupting chemicals: linkages of stressor concentrations to intersex”. November 9, 2017. Swiss Federal Institute of Aquatic Science and Technology (Eawag), Dübendorf, Switzerland. (International; Ph.D. Work).
2. **Arlos, M.J.**, Liang, R., Hatat-Fraile, M., N. Zhou., Andrews, S., Servos, M.R. Bench-scale treatment of selected pharmaceuticals and endocrine disrupting compounds using UV-LED irradiated TiO<sub>2</sub> immobilized on porous supports. Oral presentation at the 14<sup>th</sup> International Forum on Micro-Nano Manufacturing Technology for Graduate Students (Beihang University). July 2017, Beijing, China (International; Ph.D. Work).
1. **Arlos, M.J.**, Liang, R., Hatat-Fraile, M., N. Zhou., Andrews, S., Servos, M.R. Photocatalytic decomposition of estrogens and associated estrogenic activity using immobilized TiO<sub>2</sub>. Oral presentation at the Waterloo Institute of Nanotechnology (WIN) Graduate Student Seminar Series. March 21, 2017, Waterloo, Ontario, Canada (University level; Ph.D. Work).

##### **B) Oral Presentations at Conferences:**

7. **Arlos, M.J.**, Parker, W.J.\*, Andrews, S.A., Hicks, K.A., Fuzzen, M.L.M., Servos, M.R. Modeling the exposure of wild fish species to endocrine active chemicals: linkages of stressor concentrations to physiological consequences. Water Environment Federation Technical Exhibition and Conference. October 2017, Chicago, IL. (PhD Work)
6. **Arlos, M.J.\***, Parker, W.J., Andrews, S.A., Hicks, K.A., Fuzzen, M.L.M., Servos, M.R. Modeling the exposure of wild fish species to endocrine active chemicals: linkages of stressor concentrations to intersex. 10<sup>th</sup> Micropol & Ecohazard Conference. September 2017, Vienna Austria. (PhD Work)
5. **Arlos, M.J.\***, Hatat-Fraile, M., Liang, R., N. Zhou., Andrews, S., Servos, M.R. The use UV-LED irradiated TiO<sub>2</sub> membranes in the treatment of estrogenic compounds and their associated biological activity. Oral presentation at the National Water and Wastewater Conference, November 2016, Toronto, ON (PhD Work).
4. **Arlos, M.J.\***, Hatat-Fraile, Liang, R., M., N. Zhou., Andrews, S., Servos, M.R. Liang, R. The removal of estrogenic compounds and their associated estrogenic activity using UV-LED irradiated TiO<sub>2</sub> membranes. Annual Biology Graduate Symposium. April 2016. Waterloo, Ontario, Canada (PhD Work).
3. **Arlos, M.J.\***, Hatat-Fraile, M., Liang, R., N. Zhou., Andrews, S., Servos, M.R. Assessment of UV-LED/TiO<sub>2</sub> photocatalytic membrane treatment of organic micropollutants using chemical and biological analyses. AWWA: Water Quality Technology Conference, November 2015, Salt Lake City, UT. (PhD Work).
2. **Arlos, M. J.\***, Bragg, L.M., Servos, M.R., and Parker, W.J. Simulation of the fate of selected pharmaceuticals and personal care products in a highly impacted reach of the Grand River Watershed in

southern Ontario. Oral presentation at the 41<sup>st</sup> Annual Aquatic Toxicology Workshop. September 2014, Ottawa, ON. (Master's Work).

1. **Arlos, M.J.\***, Bragg, L.M., Servos, M.R., Parker, W.J. Characterization and modeling of antiandrogens and pharmaceuticals in highly impacted reaches of the Grand River watershed. Oral and poster presentations at the 5<sup>th</sup> Annual Workshop on Control of Emerging Contaminants in Water and Wastewater Treatment Systems, June 2013, Waterloo, ON. (Master's Work).

### C) Poster Presentations at Conferences

10. **Arlos, M.J.\***, Stamm, C., Hollender, J. Coupling of water quality and toxicokinetic models to evaluate the exposure dynamics of wastewater-derived compounds. SETAC Special Science Symposium, October 2018, Brussels, Belgium. (International; Postdoc work)
9. Servos, M.R.\*, Bragg, L., Dhiyebi, H., Tetreault, G., McMaster M., Fuzzen M., Hicks, K., Marjan, P., Srikanthan, N., Parker, W.J., **Arlos, M.** Modeling the response of fish to major infrastructure upgrades in wastewater treatment plants, October 2018, Brussels, Belgium. (International; Postdoc work)
8. **Arlos, M.J.\***, Liang, R., Hatat-Fraile, M., N. Zhou., Andrews, S., Servos, M.R. The removal of endocrine disrupters using TiO<sub>2</sub> immobilized on porous titanium sheets. SETAC World Congress, November 2016, Orlando, FL. (International; PhD Work)
7. **Arlos, M.J.\***, Hatat-Fraile, M., Liang, R., Andrews, S., Servos, M.R. The removal of biological activity using UV/TiO<sub>2</sub> photocatalysis. Poster presentation at the 41<sup>st</sup> Annual Aquatic Toxicology Workshop September 2014, Ottawa, ON. (PhD Work).
6. Bragg, L.M.\*, **Arlos, M.J.**, McCann, K.E., and Servos, M.R. (2014). Impacts of upgrades to the Kitchener wastewater treatment plant on the distribution of emerging contaminants in the Grand River watershed. Poster presentation at the 41<sup>st</sup> Annual Aquatic Toxicology Workshop, September 2014, Ottawa, ON. (Master's Work).
5. Liang, R.\*, Hatat-Fraile, M., **Arlos, M.J.**, Servos, M.R., Zhou, Y.N. (2014) TiO<sub>2</sub> nanowire membranes for photocatalytic filtration. Oral Presentation at the IEEE Nano, 14<sup>th</sup> International Conference on Nanotechnology, August 2014, Toronto, ON (PhD Work).
4. Hatat-Fraile, M.\*, Liang, R., **Arlos, M.J.**, and Zhou, Y. N., (2014) Photocatalytic membranes for the treatment of refractory organic pollutants. Oral presentation at 49<sup>th</sup> Central Canadian Symposium in Water Quality Research, March 2014, Niagara-on-the-Lake, ON (Regional; PhD Work).
3. **Arlos, M.J.\***, Bragg, L.M., Servos, M.R., Parker, W.J. The spatial distribution of selected antiandrogens and pharmaceuticals during low flow conditions in the Grand River watershed. SETAC North America 34<sup>th</sup> Annual Meeting, November 2013, Nashville, TN. (Master's Work).
2. **Arlos, M.J.\***, Bragg, L.M., Servos, M.R., Parker, W.J. Characterization and modeling of antiandrogens and pharmaceuticals in highly impacted reaches of the Grand River watershed. 5<sup>th</sup> Annual Workshop on Control of Emerging Contaminants in Water and Wastewater Treatment Systems, June 2013, Waterloo, ON. (Master's Work).
1. **Arlos, M.J.\***, Bragg, L.M., Servos, M.R., Parker, W.J. Spatio-temporal distribution and modeling of selected antiandrogens and pharmaceuticals in a highly impacted watershed. Poster presentation at the *Water Institute 2013 Distinguished Lecture*, May 2013, Waterloo, ON. (Institutional; Master's Work).

### SCHOLARSHIPS AND AWARDS

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|-------------|---|
| 2018        | <b>William B. Pearson Medal</b><br>Awarded to a Doctoral student in recognition for creative research as presented in the student's thesis (Department of Biology, University of Waterloo)  |
| 2018 – 2020 | <b>ETH-Zurich Postdoctoral Fellowship</b> (PDF)<br>Highly competitive fellowship for young researchers who demonstrated excellence in the early stages of their professional careers.   |
| 2018 – 2020 | <b>Natural Sciences and Engineering Research Council of Canada (NSERC) PDF</b><br>Fellowship awarded to most promising young Canadian researchers. The proposal was selected among 528 applicants and was <b>ranked 1 out of 33</b> applications submitted to Committee 201 (Civil, Industrial, and Systems Engineering). |
| 2018        | <b>Nominee, Alice Wilson Award</b><br>Selected from NSERC's highly rated, recently awarded female PDFs in recognition for the outstanding academic qualification entering a research career.  |

## SCHOLARSHIPS AND AWARDS (Continued)

- 2015 – 2018 **NSERC Postgraduate Scholarship, PhD**  
Highly competitive scholarship given to financially support high calibre scholars that are in a doctoral program in the natural sciences or engineering.
- 2015 – 2018 **President's Graduate Scholarship – University of Waterloo**  
Given to outstanding students who hold major federally funded scholarship.
- 2017 **Department Teaching Assistant (TA) Award**  
Awarded to TAs with outstanding performance in undergraduate instruction.
- 2016 **Waterloo Institute for Nanotechnology – Nanofellowship**  
Awarded to top graduate students pursuing nanotechnology research at UW
- 2016 **Philip Jones Award for Best Student Presentation**  
Awarded at the National Water and Wastewater Conference in Toronto, Ontario.
- 2016 **Allan Holmes Scholarship, Grand River Conservation Foundation**  
Given to applicants whose research addresses the Grand River Conservation Authority's vision a healthy and sustainable natural environment in the Grand River watershed.
- 2016 **Biology Graduate Symposium – People's Choice Award**  
Awarded based on presentation scores from fellow students during the symposium.
- 2016 **Society of Toxicology and Chemistry (SETAC) North America Travel Award**  
Awarded to highly meritorious student members of SETAC to support travel to 2016 SETAC meeting in Orlando, Florida.
- 2016 & 2017 **Graduate Student Research Travel Assistantship from the Department of Biology, UW**  
Provided to selected graduate students to financially assist them with their research travel needs.
- 2015 – 2016 **Ontario Graduate Scholarship** (declined upon receipt of NSERC)  
Given to graduate students in recognition of academic excellence,
- 2015 **Golder Associates Graduate Scholarship**  
Given to graduate students based on scholastic excellence and demonstrated success in water research.
- 2014 **RBC Water Scholars Graduate Entrance Scholarship**  
Given to students with commitment to a water-focused program of study and academic excellence.
- 2013 **Sanford Fleming TA Award**  
Given to teaching assistants that made an excellent contribution to the undergraduate educational program.
- 2011 Completed the Bachelor's Degree (Civil and Environmental Engineering) **with Distinction**
- 2006 – 2011 **Queen Elizabeth II Aiming for the Top Scholarship**  
Renewed yearly (four years) for maintaining at least 80% GPA (undergraduate).
- 2006 **President's Entrance Scholarship – University of Waterloo**  
Given to first-year students with >90% average during high school.
- 2006 **Faculty of Engineering Entrance Scholarship – University of Waterloo**  
Given to first-year engineering students with good academic standing during high school.

## SPECIALIZED TRAINING AND WORKSHOPS

- Water Quality Modeling Training (Water Quality Simulation Program, WASP) by the US Environmental Protection Agency, July 2016, Atlanta, Georgia
- CALUX Bioassay Training by the Biodetection Systems, April 2015, Amsterdam
- LC/MS Training Course by Agilent Technologies, June 2014, Chicago, Illinois.

## PROFESSIONAL ACTIVITIES

- **Engineer-in-Training**, Engineer Intern Program (EIT), Professional Engineers Ontario
- **Invited reviewer for scientific journals**: Water Research, Environmental Science: Water Research and Technology, Environmental Toxicology and Chemistry, Science of the Total Environment
- **Professional memberships**: American Water Works Association (AWWA), Water Environment Federation (WEF), International Water Association (IWA), Water Environment Association of Ontario (WEAO), & Society of Environmental Toxicology and Chemistry (SETAC)

## ADDITIONAL SKILLS

- MS Office (Word, Excel, PowerPoint)
- SageMath Programming Software (Python-based programming language)
- ARCGIS, Geographical Information System software
- Sigmoidplot, Statistics Software

## MEDIA (articles that featured my passion towards learning and mentorship)

“Making connections beyond the classroom” by the Water Institute, University of Waterloo, May 2, 2018

- An article that outlines my journey as a Collaborative Water Program student and the impacts it had on my current postdoctoral research work. Link: <https://goo.gl/p3oZUk>

“Water connections – from Canada to the Philippines” by Sylvie Spraakman, Waterlution July 14, 2017.

- A blog article describing the high school scholarship program I initiated in the Philippines to promote awareness of local watershed issues. Link: <https://goo.gl/N5S636>

## RECENT PROFESSIONAL AND COMMUNITY VOLUNTEER ACTIVITIES

<b>11.2018 to present</b>	<b>500WS Zurich Chapter</b> Organizes events leading to the International Women’s Day
<b>05.2018 to present</b>	<b>Science to Policy and Practice Interface</b> Assists with lunch-and-learn events (4x per year) that discuss the impact of Eawag employee research on practice and policy and vice-versa
<b>06.2018</b>	<b>Volunteer Staff, The Flying Croissant Project</b> Assists with collection of left-over bakery goods and distribution to charitable organisations in Zurich (volunteers monthly).
<b>09.2017</b>	<b>Volunteer Staff, 4<sup>th</sup> Water Research Conference – Elsevier/IWA</b> Provided technical support during the registration, poster session, and conference sessions
<b>2016 – 2018</b>	<b>University of Waterloo Writing Centre</b> Facilitates the weekly graduate students writing café that utilizes the Pomodoro technique for time management.
<b>2014 – 2018</b>	<b>Women in Ontario in Water</b> Supported and coordinated a few of the group’s community outreach activities such as Library Outreach Program and Great Lakes micro-plastics sampling.

- 2013 – 2018 Volunteer Field Crew Member – Servos Lab Group – UW Biology**  
Assisted the annual field fish and water sampling conducted by the Servos Group.
- 04.2017 GRADventure Program, University of Waterloo**  
Contributing writer to the monthly GRADventure Blog. See link: <https://goo.gl/z6qVWW>
- 01.2017 The Future of Negros Water Scholarship**  
Sponsored a water-focused scholarship program through an essay competition in my former school in the Philippines that encourages students to think about water issues.
- 01.2016 Queen Street Commons Café**  
Volunteered (Kitchen Staff) at the Queen Street Commons Café, a café run by the Working Centre in Kitchener which was built in response to the growing poverty and unemployment in Kitchener Centre in the early 1980s.
- 2014 – 2016 Students of the Water Institute Graduate Section, SWIGS**  
Assisted the club's community outreach events logistics. Heavily involved in the planning of the World Water Day event that is jointly celebrated by University of Waterloo and Wilfred Laurier University annually.
- 06. 2016 LeadNow Campaign – Kitchener**  
Volunteered in the organization's campaigns during the 2016 Canadian Federal Elections.

## LANGUAGES

- English – fluent in speaking, reading, and writing
- Hiligaynon (Filipino language dialect) - fluent in speaking, reading, and writing
- German – Level A1 (basic) completed at Roth Language Atelier, Oerlikon, Switzerland.

## REFERENCES

**Prof. Mark Servos**  
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