Pablo Alvarez

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Personal Information

Date of Birth	April 15, 1983
Nationality	Canadian

Summary of Skills

Front-End	JavaScript, CSS, HTML5
Back-end & OOP	Python, Java
Analysis	R, Shiny, Python
Office	GitHub, Markdown, Microsoft Office™, Visio, LaTeX

Education

2017 - exp. Sept. 2018 **Front-end Nanodegree**, *Udacity*, Ongoing certification with courses built by Google, AT&T and Facebook, and taught by leading subject matter experts.
Online, www.udacity.com.

2015 - exp. Oct. 2018 **Ph.D. Computational Earth Science**, *Université de Strasbourg*, Development of numerical software designed to simulate physical processes in nature.
Strasbourg, France.

2009 - 2011 **M.Sc. Technology Engineering in Environmental Science**, *Technische Universität Hamburg-Harburg (TUHH)*, Computational simulation of hydrological systems. Institut für Umwelttechnik und Energiewirtschaft.
Hamburg, Germany.

2002 - 2007 **B.Sc. (Honours) Global Resource Systems**, *University of British Columbia (UBC)*, Environmental Science and Resource Economics.
Vancouver, Canada.

Experience

Front- & Back-end

2017 - present **Full-stack developer**, *inPact, Non-profit*, Remote, www.people-inpact.com.

- Developed and deployed a full responsive website with user sign-in, fund-raising and blog capabilities.
- Implemented CSS-Bootstrap v4, HTML5, jQuery and JavaScript.
- Python backend, powered by Google App Engine's standard environment.

Scientific

2015 - present **Computational Research Hydrologist**, *PhD Candidate*, Laboratory of Hydrology and Geochemistry of Strasbourg (LHyGeS), Strasbourg, France.

- Developed and tested numerical software written in Python and R to evaluate contaminant fate in surface (soils & rivers) and subsurface (reservoir) environments.
- Designed a data acquisition program and managed interns during field and laboratory work.
- Published articles in leading scientific and engineering journals.

Industry

2012 - 2015 **Environmental and Safety Engineer**, *Wintershall GmbH*, Germany & Netherlands.

- Technical lead, EHS communication software prototyping and implementation.
- Developed performance tracking tools to assist certification of international standards (ISO 14001, ISO 50001).
- Reviewed oil-spill modelling studies and liaised with government authorities.

Languages

English **Bilingual**, *Mother tongue*.

German **Working proficiency**, *EU reference: B2-C1*.

Spanish **Bilingual**, *Mother tongue*.

French **Working proficiency**, *EU reference: B2*.

Awards

2009 M.Sc Scholarship EU Commission. Value: €37,000.

2009 Canadian Research Council M.Sc. Research Stipendium. Value: $25,500.

2007 University of British Columbia Charles & Jane Banks Book Price. Value: $1,000.

Research & Technical Reports

2018 Pesticide degradation and export losses at the catchment scale: insights from compound-specific isotope analysis (CSIA). **Alvarez-Zaldívar, P.**, Meite, F., Payraudeau, S., Masbou, J., & Imfeld, G. *Water Research, accepted, in print*.

2018 Impact of rainfall patterns and frequency on the export of pesticides and heavy-metals from agricultural soils. Meite, F., **Alvarez-Zaldívar, P.**, Alexandre Crochet, Wiegert, C., Payraudeau, S. & Imfeld, G. *Science of The Total Environment, 616-617 (Nov. 2018)*.

2017 Fluorescent tracers to evaluate pesticide dissipation and transformation in agricultural soils. Lange, J., Olsson, O., Sweeney, B., Herbstritt, B., Reich, M., **Alvarez-Zaldívar, P.**, Payraudeau, S. & Imfeld, G. *Science of The Total Environment, 619-620 (Oct. 2017)*.

2016 Biogeochemical modelling of *in situ* biodegradation and stable isotope fractionation of intermediate chloroethenes in a horizontal subsurface flow wetland. **Alvarez-Zaldívar, P.**, Centler, F., Maier, U., Thullner, M. & Imfled, G. *Ecological Engineering*, Vol. 90 (May 2016).