Pablo Alvarez

24 Scheffelstr.
60318 Frankfurt, Germany
☎ *+49(0)176 7749 3874*
✉ *pablo.alv.zal@gmail.com*
www.azwebandmobile.com

Personal Information

Date of Birth	April 15, 1983
Nationality	Canadian

Summary of Skills

Front-End	JavaScript (React.js), CSS & Bootsrap, HTML5
Back-end	Node (Express.js), Python (webapp2)
Visuals	D3.js, R & Shiny, Python (Seaborn, Matplotlib)
Databases	PostgreSQL, pgModeller
Office	Git, Markdown, LaTeX

Education

2017 - 2018 — **Front-end Web Developer Nanodegree**, *Udacity*, Certification with courses built by Google, AT&T and Facebook, and taught by leading industry experts.
Online, www.udacity.com.

2015 - 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

Information Technology

Dec. 2018 - present — **Developer / ETL**, *Senacor Technologies AG*, Consultancy.
- Developed and maintained ETL (Data Extraction, Transformation and Loading) mappings.
- PostgreSQL database creation, modeling and data integration based on business, functional and technical specifications.

Jun. 2018 - **Full-stack developer**, *inPact, Non-profit*, Own Startup, *www.people-inpact.com*.
present
- Deployed a responsive web application with user sign-in, fund-raising & blog capabilities.
- Implemented CSS-Bootstrap v4, HTML5, jQuery and JavaScript.
- Python backend running on **Google App Engine** *(serverless application)*.

Scientific

Nov. 2015 - **Computational Research Hydrologist**, *PhD Candidate*, Laboratory of Hydrology and
Nov. 2018 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

Feb. 2012 - **Environmental and Safety Engineer**, *Wintershall GmbH*, Germany & Netherlands.
Sept. 2015
- Technical lead, EHS communication software prototyping and implementation.
- Developed performance tracking tools to assist international standard certification (14001, 50001).

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 Articles

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, Vol. 139, pp. 198-207 (Aug. 2018)*. https://doi.org/10.1016/j.watres.2018.03.061

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 (Mar. 2018)*. https://doi.org/10.1016/j.scitotenv.2017.10.297

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)*. https://doi.org/10.1016/j.scitotenv.2017.10.132

2016 Biogeochemical modeling 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). https://doi.org/10.1016/j.ecoleng.2016.01.037