Daniel Flores-Agreda

Curriculum Vitæ

Personal Information

Full Name	**Daniel Antonio Flores Agreda**.
Birth Date	**November 30th, 1984**.
Nationality	**Swiss and Bolivian**.

Education

2012–2017	**PhD in Statistics**, *Geneva School of Economics and Management*, Université de Genève, Geneva, Switzerland.
2009–2012	**Master of Science in Statistics**, *Faculté de Sciences Economiques et Sociales*, Université de Genève.
2005–2009	**Bachelor of Science in Economics**, *Faculté de Sciences Economiques et Sociales*, Université de Genève.

Employment

Feb 2019 Present	**School of Public Health and Preventive Medecine**, *Monash University*, Australia. Research Fellow (Biostatistics)
Feb 2018 Jul 2019	**Faculty of Business and Economics**, *Université de Lausanne*, Switzerland. Junior Lecturer.
Dec 2011 Jul 2017	**Research Center for Statistics**, *Université de Genève*, Switzerland. Teaching and Research Assistant.
Sep 2012 Aug 2015	**Faculté de Sciences Economiques et Sociales**, *Universitè de Genève*, Switzerland. Information Technology Collaborator.
Sep 2010 Dec 2010	**Faculté de Sciences Economiques et Sociales**, *Université de Genève*, Switzerland. Part-time Tutor in Statistics for Undergraduate Students.

Publications

Papers

2019	***Bootstrap Estimation of Uncertainty in Prediction for Generalized Linear Mixed Models***, Joint work with Eva Cantoni, *Computational Statistics and Data Analysis, Volume 130, 2019.* https://doi.org/10.1016/j.csda.2018.08.006.
2020	***Bootstrapping Generalized Linear Mixed Models via a Weighted Laplace Approximation***, *Joint Work with Eva Cantoni*, Under Review.

Working Papers and Other Manuscripts

2020 **A Flexible Tool for Inference of Accelerated Failure Time Models with Clustered Data**, *Joint Work with Rory Wolfe, Eva Cantoni and Stephane Heritier*, Working Paper.

2017 **On the Inference of Random Effects in Generalized Linear Mixed Models**, *Under the supervision of Prof. Eva Cantoni*, PhD Thesis.

Talks

Title **Bootstrap-based Uncertainty Measures for Empirical Best Predictors in Generalized Linear Mixed Models**, *Joint work with Prof. Eva Cantoni*.
   ○ 21st International Conference on Computational Statistics (COMPSTAT 2014), Geneva, August 2014.
   ○ XIII Latin American Congress of Probability and Mathematical Statistics (XIII CLAPEM), Cartagena de Indias, Colombia, September 2014.

Title **On the Estimation of Uncertainty in Prediction for GLMM via Bootstrap Methods**, *Joint work with Prof. Eva Cantoni*.
   ○ 22nd International Conference on Computational Statistics (COMPSTAT 2016), Oviedo, Spain, August 2016.

Title **Bootstrapping Generalized Linear Mixed Models**, *Joint work with Prof. Eva Cantoni*.
   ○ Séminaire de l'Institut de Statistique, Université de Neuchâtel, May 2016.
   ○ 6th Young Researcher Conference YRC, Lausanne, June 2016.

Title **Bootstrapping Clustered Data via a Weighted Laplace Approximation**, *Joint work with Prof. Eva Cantoni, Prof. Rory Wolf and Assoc. Prof Stéphane Heritier*.
   ○ XV Latin American Congress of Probability and Mathematical Statistics (XV CLAPEM), Merida, Mexico, December 2019.
   ○ 12th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2019), London, United Kingdom, December 2019.

Research Interests

Bootstrapping Mixed Models

Inference for Random Effects in GLMM

Perturbation Bootstrap for Random Effect Selection via Lasso-type Methods

Accelerated Failure Time Models with Random Effects

Teaching Experience

Teaching Assistant

2012 - 2014 **Mathematics I**, *BSc in International Relations*.

2015 **Statistics II**, *BSc in Economics*.

2015 - 2016 **Statistics I**, *BSc in Economics & Management*.

2012-2013 **Microeconometrics**, *MSc in Economics*.

2014-2017 **Generalized Linear and Additive Models**, *MSc in Statistics*.

2016-2017 **Experimental Design**, *MSc in Statistics & MSc in Economics*.

Lecturer

2018 **Time Series and Forecasting**, *MSc in Management*, University of Lausanne.

2019 **Forecasting I**, *MSc in Management*, University of Lausanne.

Funds and Grants

2019	**Travel Grant**, *Victorian Centre for Biostatistics (ViCBiostat)*, 2420 AUD, Conference Attendance.
	XV CLAPEM and CMStatistics 2019
2016	**Travel Grant**, *Société Académique de Genève*, 800 CHF, Conference Attendance.
	22nd COMPSTAT, Oviedo, Spain.
2014	**Travel Grant**, *Société Académique de Genève* , 1400 CHF, Conference Attendance.
	XIII CLAPEM, Cartagena de Indias, Colombia.
2005 - 2012	**Scholarship**, *Fondation Simon I. Patino.*
	Full scholarship for studies in Switzerland (BSc. and MSc.) obtained after contest.

Languages

Spanish	Mother Tongue
French	Fluent (spoken, written)
English	Fluent (spoken, written)
Italian	Intermediate (spoken, written)
German	Intermediate (spoken, written)

Computer Skills

Analysis	R, S-Plus, SPSS, Stata, Matlab	Programming	R, Matlab, C++, Python
OS	Windows, OS X (macOS), Linux	Applications	MS Office, iWork, LaTeX, RStudio

Other Educational Programs

2003 - 2005 (Incomplete)	**Bachelor in Production Engineering**, *Universidad Privada Boliviana (UPB)*, Cochabamba, Bolivia.
	Interrupted after receiving scholarship to pursue studies in Switzerland
2005 - 2006	**Preparation Year at the *Simon I. Patiño* Foundation**.
	Courses of French and leveling in Sciences: Mathematics, Physics and Chemistry
2012 - 2017	**Various Courses**, *Faculty of Sciences*, Université de Genève.
	○ **Bachelor in Mathematics**: Analysis I, II III, Numerical Analysis
	○ **Bachelor in Computer Science**: Data Mining