Curriculum Vitae

Alberto Arletti

Modena, Italy, 25/09/1996



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Research Interest:
I believe data is a powerful tool for storytelling: one that can significantly influence society and public discourse. My research centers on using quantitative methods and developing innovative applications to tackle important questions in the social sciences. I thrive in interdisciplinary environments. Currently I am collaborating with teams of statisticians, psychologists, and sociologists to produce scientific work to inform policy and provide rigorous and informed understanding of the complex issues in the world around us.

Current Position

January 2025 - December 2026	**Role**	Research Fellow
	Where	Department of Economics, Ca' Foscari University of Venice, Venice, Italia
	Supervision	Prof. Stefano Campostrini
	Funding	PNRR Research Grant Project: AGE-IT – Spoke 10, working package 2. Theoretical and data-driven study of the dynamics and mechanisms generating health inequalities among subpopulations in terms of longevity and healthy aging.

PhD

January 2022 - January 2025	**Role**	PhD Student in Statistical Science
	Where	University of Padua, Padua, Italy
	Scholarship	Awarded PON DM1061 full scholarship category "Innovation" on topic: "Social Media Sampling"
	Dissertation	Inference with Non-Ignorable Selection Bias: A Neural Network Approach for Online Electoral Polls.
	Supervision	Prof. Omar Paccagnella, Prof. Maria Letizia Tanturri, University of Padova, Prof. Yajuan Si, Institute of Social Science, University of Michigan, USA.
	Visiting	*(February 2024 - August 2024)* Institute of Social Science, University of Michigan, Ann Arbor, USA. Under the supervision of Prof. Yajuan Si, developed simulations for estimation with non-ignorable selection in samples.
	Industry Experience	*(November 2022 - July 2023):* Researcher at Demetra Opinioni, Mestre, Italy. Under the supervision of Prof. Angelo R. Tommaselli and Beatrice Bartoli, analyzed web panel samples for the September 2022 political elections.

Completed Coursework:

- Multivariate Techniques (A/B): Matrix Decomposition, Clustering, PCA;
- Theory and Methods of Inference (B-): Frequentist and Bayesian Inference, Modelling, Distributions, Asymptotic Statistics;
- Statistical Modelling: Non-parametric Statistics, Hierarchical Modelling, High Dimensional Modelling, Bayesian Modelling;
- Functional Analysis (B-): Measure theory, Banach and Hilbert spaces;
- Probability Theory: Discrete Stochastic Processes, Markov Chains.
- Programming Methodologies (B-): Object-Oriented Programming, Map-Reduce.

Experience

November 2019— June 2021

Position: Data Scientist
Where: Neosperience s.p.a., Milan, Italy

At Neosperience, I led a team of two in developing User Insight, a tool for predicting personality based on web navigation data and enabling personality-based personalization. My responsibilities included overseeing data quality and predictions for stakeholders, managing the data pipeline (AWS, Apache Spark), and implementing algorithms (random forest, XGBoost) and feature engineering (Resnet32, topic extraction).

Education:

January 2021— September 2021

Courses: Calculus I (27/30), Calculus II (27/30), Linear Algebra (24/30)
Where: Department of Statistical Sciences, University of Padova, Italy (Part time)

September 2018— November 2019

Degree: Master's Degree in Neuroscience
Where: University of Padova, Padova, Italy
Grade: Distinction, Upper Second Class honours

September 2017— November 2018

Degree: Master's Degree in Cognitive Neuroscience
Where: University College London, London, UK
Grade: Upper Merit

September 2014— November 2017

Degree: Bachelor's Degree in Personality Psychology
Where: University of Padova, Padova, Italy
Grade: First Cum Laude

Teaching

November, 2025—

Title: Scientific Challenges in Analytics: Sampling & Representativeness
Where: Department of Economics, University of Padova

I presented basis of sampling, representativeness, selection bias and the Data Defect Index to Master students (Quantitative Methods for Marketing).

April 17, 2025—

Title: Teaching Seminar: Themes and Sampling Methods
Where: Department of Statistical Science, University of Padova

Lesson titles: *Big Data, Paradise o Paradox? Selection bias in non-random samples.*

Agoust 2022—September 2025

Title: LaTeXIntroduction Teaching
Where: Department of Statistical Science, University of Padua

I taught recurring editions of an introductory course in LaTeXto Master students.

Academic Publications

- Arletti, A., Tanturri, M. L., & Paccagnella, O. (2025b). Making online polls more accurate: Statistical methods explained. *Frontiers in Political Science*, *Volume 7 - 2025*. https://doi.org/10.3389/fpos.2025.1592589
- Arletti, A., Candiracci, A., & Cottone, P. F. (2025). Perceived oppression and online support for covid-19 non-compliance: The 2021 trieste port protests. *Frontiers in Political Science*, *Volume 7 - 2025*. https://doi.org/10.3389/fpos.2025.1515923

Working Papers

- Arletti, A., Schiavon, L., Stival, M., Bertarelli, G., Marzulli, M., & Campostrini, S. (2025a). From compression to expansion? policy recommendations from health surveillance trends in cardiovascular and diabetes morbidity in the us - Under Review in Scientific Reports, January 2026
- Arletti, A., Alfarone, I., Legner, L., Finos, L., Altoé, G., & Campostrini, S. (2026). Does sampling matter in psychological science? - Awaiting submission
- Arletti, A., Tanturri, M. L., & Paccagnella, O. (2025a). Adjusting selection bias in non-probability samples: The case of italian electoral polls - Under review at the Survey Research Methods, January 2026
- Arletti, A. (2024). A directional rockafellar-uryasev regression. https://arxiv.org/abs/2411.02557 - In preparation
- Godwin, E., Wischerath, D., Bocheva, D., Arletti, A., Brown, O., & Davidson, B. I. (2023). Seeing the light—looking into britain's conspiracy truthpaper. https://doi.org/10.31234/osf.io/wb3qm - Submitted to Media Culture and Society, August 2025

Conference Presentations

- Arletti, A., Arletti, A., & Malacarne, R. (2025). A technological framework for ai-powered cross-interface automated a1 submission. *European Labour Authority Tech Conference 2025*
- Arletti, A., Schiavon, L., Stival, M., Marzulli, M., & Campostrini, S. (2025). From compression to expansion? policy recommendations from health surveillance trends in cardiovascular and diabetes morbidity in the us. *Secondo Conegno Generate Age-It.* https://www.conftool.pro/age-it-2025/index.php?page=browseSessions&path=adminSessions&form_session=56
- Arletti, A., Schiavon, L., Stival, M., Bertarelli, G., Marzulli, M., & Campostrini, S. (2025b). Morbidity and mental health: A 30-year analysis of us health surveillance data. https://www.unirsm.sm/asa2025/wp-content/uploads/sites/73/2025/09/Programme_San-Marino2025.pdf
- Arletti, A., Alfarone, I., Finos, L., & Altoé, G. (2025). Does sampling matter in psychological science? https://psychometrics-laboratory.psy.unipd.it/EMPG2025/wp-content/uploads/2025/09/EMPG2025_Abstracts_sito.pdf

- Arletti, A., Paccagnella, O., Tanturri, M. L., & Si, Y. (2025). The use of meta-information in adjusting non-ignorable selection bias. https://eventi.unibo.it/itacosm-2025/conference-program
- Arletti, A., Si, Y., & e Omar Paccagnella, M. L. T. (2025). Meta-information for robust inference with non-ignorable selection. *AAPOR Conference 2025*. https://aapor.confex.com/aapor/2025/meetingapp.cgi/Paper/3517
- Wischerath, D., Godwin, E., Bocheva, D., Arletti, A., Davidson, B., & Brown, O. (2024). Seeing the light: Tracing the evolution of uk conspiracy narratives. *TASM Conference 2024*, (2). https://online.flippingbook.com/view/315440951/10/
- Arletti, A., Arletti, A., & Malacarne, R. (2024). Efficient eu workforce relocation through llm-driven legislative data solutions. *European Labour Authority Tech Conference 2024*, (2). https://www.ela.europa.eu/sites/default/files/2024-02/2-Italy.pdf, Video: https://www.youtube.com/watch?v=lqnrA26Z5os&t=208s&ab_channel=EuropeanLabourAuthority
- Arletti, A., Paccagnella, O., & Bartoli, B. (2023). In the practitioner's shoes: A comparison of correction methods for non-probability samples. *General Online Research 2023*. https://www.conftool.org/gor23/sessions.php

Seminars & talks

- Does Sampling Matters in Psychological Science? - *March 21, 2025*, Psicostat 3.6, Padova.
- ARQUS Day Plenary Assembly 6th Anniversary. Social Media and Populism in Southern European Democracies - *October 18, 2024*, Palazzo Bo, Padua.
- Computational Social Science Working Group. The Role of Twitter in Anti-Vax Protests - *June 21, 2024*, Ann Arbor, Michigan, USA.

Awards

- Student Conference Award, American Association for Public Opinion, 80th 2025 Conference, St. Luis. Award: 800$.
- ARQUS Alliance, Students' Co-Designed Projects, 2023 edition. Titolo progetto: "Who votes for emergent parties in European elections? A joint analysis on bias and sampling". Authors: *A. Arletti, F. Fernandes, J. Suarez*. Prize: 1000€. Completed: March 2024. Award page: link. Results: link

Summer Schools and Experiences

- *2023* European Social Research Association Conference, 17-20 July, Milano Bicocca. (ESRA 2023)
- *2023* Summer Institute in Computational Social Science, 12-24 June, Edinburgh, UK (SICSS)

Academic Engagement

- Session Chair, ITACOSM conference 2025, Bologna, Italy, 1-4 July 2025.
- Representative, Arqus Alliance Local Meeting, Research focus group Padova (VE), Italy, 20 June 2025
- Delegate, European Student Assembly 2025, Strasbourg, France - 26-29 May 2025. Joined as member of Panel 5: lifelong learning. Elaboration of policy proposals and model parliament discussion and voting.

Peer Review Activities

- "Measuring and assessing the healthcare services experience: a proposal of a synthetic index" in *Applied Stochastic Models in Business and Industry*, April 2025
- Alkoç, N., & Ernst Stähli, M. (n.d.). Transitioning from interviewer-administered to self-administered survey modes: Implications for the quality of measures of political attitudes and behavior. *Frontiers in Political Science*, *7*, 1425888, April 2025

Workshops & Training

- Participant, *Advanced sampling and estimation methods with R*, ITACOSM Conference 2025, Rimini, Italy, 31 June 2025.
- Participant, *"Le sfide internazionali e quelle locali per i sistemi di Welfare"*, GSI-Offsite Lab, Villa Widmann, Mestre (VE), Italy, 23 May 2025.
- Participant, Workshop PNRR AGE-IT, Venezia (VE), Italy, 27 February 2025

Professional Habitations

- Licensed Psychologist registered in "A" register, Order of Psychologists of Emilia-Romagna *(November 2021)*

Technical Skills
Python *from 2017*
libraries: pandas, numpy, torch, scikit-learn, scipy-stats, opencv, spacy, matplotlib, seaborn;

R *from 2018*
libraries: dplyr, tidyverse, ggplot, lme4, rstanarm, parallel, torch;

Software and Data Engineering, Versioning
SQL, AWS Suite, Apache Spark, git, docker, conda, vim, singularity, bash;

Data collection
Facebook (Meta) Ad manager;

Professional Affiliations: American Association for Public Opinion Research, Young-SIS (Società Italiana di Statistica);

Languages: *Italian*, mother tongue; *English*, C2 level;

Sport: Skiing, swimming, sailing, weight training

Volunteering: Uni CleanUp Venice (plastic clean up)

Declaration and Data Privacy Consent
I, Alberto Arletti, declare, pursuant to D.P.R. no. 445/2000 and subsequent amendments and integrations, that the information provided in this document is true. I grant authorization for the processing of personal data for the purposes related to this selection procedure, in accordance with applicable national and European legislation (Legislative Decree 196/2003 and EU Regulation 2016/679).
Signature:

