

Curriculum



Nome Name:	Ileana
Cognome Surname:	BALDI

ORCID:	0000-0002-8578-9164
Scopus Author ID:	n.d.
WOS Author ID:	n.d.
Sito WEB WEB site:	n.d.

POSIZIONE PROFESSIONALE ATTUALE / CURRENT PROFESSIONAL POSITION:

Posizione attuale Current position:	In servizio
Qualifica Qualification:	Professore Associato (L. 240/10)
Ateneo/Ente/Azienda University/Institution/Company:	Università degli Studi di PADOVA
Nazione Ateneo/Ente/Azienda University/Institution/Company Country:	ITA
Anno inizio Start Year:	2018
Anno fine End Year:	n.d.

PRECEDENTI ESPERIENZE LAVORATIVE (ULTIMI 10 ANNI) / PREVIOUS WORK EXPERIENCE (LAST 10 YEARS):

Qualifica Qualification:	Ricercatore
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Ateneo/Ente/Azienda University/Institution/Company	Università degli Studi di PADOVA
Posizione Sede Lavorativi (indicare Nazione e Città) Workplace Location (specify Country and City):	Padova, PD, Italia
Anno inizio Start Year:	2011
Anno fine End Year:	2018
Descrizione Description:	

LINGUE / LANGUAGES:

Lingua Language:	Inglese
Scrittura Writing:	C1
Comunicazione Communication:	C1

AREA/SETTORE SCIENTIFICO-DISCIPLINARE / AREA/SECTOR SCIENTIFIC-DISCIPLINARY

Area scientifico-disciplinare Area scientific-disciplinary:	Scienze mediche
Area scientifico-disciplinare codice Area scientific-disciplinary code:	06
Settore scientifico-disciplinare codice Sector scientific-disciplinary code:	-Statistica medica
Settore scientifico-disciplinare codice Sector scientific-disciplinary code:	-MEDS-24/A

DESCRIZIONE DEI PRINCIPALI RISULTATI SCIENTIFICI CONSEGUITI NEGLI ULTIMI 10 ANNI (CON ANNESSO ELENCO DI MASSIMO 10 PUBBLICAZIONI) / DESCRIPTION OF THE MAIN SCIENTIFIC RESULTS ACHIEVED IN THE LAST 10 YEARS (WITH ATTACHED LIST OF MAXIMUM 10 PUBLICATIONS):

Descrizione Description:	<i>Over the last decade, my research has spanned several critical areas in healthcare data analysis and clinical research methodologies. This includes exploring automated approaches for extracting and synthesizing data in systematic reviews, ultimately enhancing the efficiency and accuracy of evidence synthesis. Moreover, I've delved into applying machine learning techniques to analyze clinical data, specifically emphasizing predictive modeling to assess patient outcomes and support</i>
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	<p><i>informed healthcare decision-making. Addressing the inherent challenges in clinical trial design has been a significant focus of my research. I've thoroughly investigated various design hurdles and proposed potential solutions to improve the overall execution of clinical trials. Furthermore, my contributions involve exploring text mining strategies aimed at streamlining systematic review procedures, particularly refining information retrieval methodologies. Additionally, I've explored integrating natural language processing techniques to enhance data extraction from registries. A key focus has been the exploration of machine learning algorithms for patient stratification in clinical trial design. This work highlights personalized medicine approaches aimed at refining patient selection criteria in trials.</i></p>
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PUBBLICAZIONI / PUBLICATIONS:

Anno della pubblicazione Year of publication:	2024
Citazione Citation:	Ocagli, Honoria, Lanera, Corrado, Franzoi, Marco, Monachesi, Chiara, Zgheib, Rebecca, Belluco, Simone, Dacasto, Mauro, Gregori, Dario, Baldi, Ileana (2024). Unveiling insights from the Joint FAO/WHO Expert Committee on Food Additives (JECFA) portal. SCIENTIFIC DATA, vol. 11, ISSN: 2052-4463, doi: 10.1038/s41597-024-04294-w

Anno della pubblicazione Year of publication:	2019
Citazione Citation:	Berchiolla, Paola, Zohar, Sarah, Baldi, Ileana (2019). Bayesian sample size determination for phase IIA clinical trials using historical data and semi-parametric prior's elicitation. PHARMACEUTICAL STATISTICS, vol. 2, p. 198-211, ISSN: 1539-1604, doi: 10.1002/pst.1914

Anno della pubblicazione Year of publication:	2019
Citazione Citation:	Lanera, Corrado, Berchiolla, Paola, Sharma, Abhinav, Minto, Clara, Gregori, Dario, Baldi, Ileana (2019). Screening PubMed abstracts: is class imbalance always a challenge to machine learning?. SYSTEMATIC REVIEWS, vol. 8, ISSN: 2046-4053, doi: 10.1186/s13643-019-1245-8

Anno della pubblicazione Year of publication:	2024
Citazione Citation:	Polloni, Laura, Baldi, Ileana, Bianconi, Sara, Amadi, Margherita, Tonazzo, Valentina, Bonaguro, Roberta, Lazzarotto, Francesca, Toniolo, Alice, Morandini, Laura, Schiavo, Rossana, Muraro, Antonella (2024). Assessment of parental self-efficacy in managing child food-induced anaphylaxis and using adrenaline autoinjectors. PEDIATRIC ALLERGY AND IMMUNOLOGY, vol. 35, ISSN: 0905-6157, doi:

	10.1111/pai.14265
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Anno della pubblicazione Year of publication:	2023
Citazione Citation:	Giordano, Luca, Francavilla, Andrea, Bottio, Tomaso, Dell'Amore, Andrea, Gregori, Dario, Navalesi, Paolo, Lorenzoni, Giulia, Baldi, Ileana (2023). Predictive models in extracorporeal membrane oxygenation (ECMO): a systematic review. SYSTEMATIC REVIEWS, vol. 12, ISSN: 2046-4053, doi: 10.1186/s13643-023-02211-7

Anno della pubblicazione Year of publication:	2017
Citazione Citation:	BALDI, ILEANA, AZZOLINA, DANILA, Berchialla, Paola, GREGORI, DARIO, Scotti, Lorenza, Corrao, Giovanni (2017). Comorbidity-adjusted relative survival in newly hospitalized heart failure patients: A population-based study. INTERNATIONAL JOURNAL OF CARDIOLOGY, ISSN: 0167-5273, doi: 10.1016/j.ijcard.2017.05.080

Anno della pubblicazione Year of publication:	2022
Citazione Citation:	Berchialla Paola, Lanera Corrado, Sciannameo Veronica, Gregori Dario, Baldi Ileana (2022). Prediction of treatment outcome in clinical trials under a personalized medicine perspective. SCIENTIFIC REPORTS, ISSN: 2045-2322, doi: 10.1038/s41598-022-07801-4

Anno della pubblicazione Year of publication:	2021
Citazione Citation:	Bottigliengo D., Baldi I., Lanera C., Lorenzoni G., Bejko J., Bottio T., Tarzia V., Carrozzini M., Gerosa G., Berchialla P., Gregori D. (2021). Oversampling and replacement strategies in propensity score matching: a critical review focused on small sample size in clinical settings. BMC MEDICAL RESEARCH METHODOLOGY, vol. 21, 256, ISSN: 1471-2288, doi: 10.1186/s12874-021-01454-z

Anno della pubblicazione Year of publication:	2020
Citazione Citation:	Avogaro A., Azzolina D., Fadini G. P., Baldi I. (2020). Incidence of heart failure in patients with type 1 diabetes: a systematic review of observational studies. JOURNAL OF ENDOCRINOLOGICAL INVESTIGATION, ISSN: 0391-4097, doi: 10.1007/s40618-020-01368-5

Anno della pubblicazione Year of publication:	2025
Citazione Citation:	Azzolina, Danila, Baldi, Ileana, Bressan, Silvia, Khan, Mohd Rashid, Dalt, Liviana Da, Gregori, Dario, Berchialla, Paola (2025). Navigating challenges in pediatric trial conduct: integrating

bayesian sequential design with semiparametric elicitation for handling primary and secondary endpoints. BMC MEDICAL RESEARCH METHODOLOGY, vol. 25, ISSN: 1471-2288, doi: 10.1186/s12874-025-02484-7

DESCRIZIONE DEI PRINCIPALI PROGETTI DI RICERCA E PREMI CONSEGUITI NEGLI ULTIMI 10 ANNI (CON ANNESSO ELENCO DI MASSIMO 10 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, PRINCIPAL INVESTIGATOR O COORDINATORE LOCALE DI PROGETTI DI RICERCA COMPETITIVI NAZIONALI O INTERNAZIONALI, SIGNIFICATIVI PREMI CONSEGUITI PER LA PROPRIA ATTIVITÀ DI RICERCA)/ DESCRIPTION OF THE MAIN RESEARCH PROJECTS AND AWARDS AWARDED IN THE LAST 10 YEARS (WITH ATTACHED LIST OF MAXIMUM 10 ACHIEVEMENTS, INCLUDING, FOR EXAMPLE, PRINCIPAL INVESTIGATOR OR LOCAL COORDINATOR OF NATIONAL OR INTERNATIONAL COMPETITIVE RESEARCH PROJECTS, SIGNIFICANT AWARDS AWARDED FOR YOUR RESEARCH ACTIVITY):

Descrizione Description:	<i>Over the past decade, spanning from 2013 to the present, my research has encompassed crucial aspects of healthcare data analysis and clinical research methodologies. Initially, I delved into utilizing current data to comprehend heart failure management, resulting in publications studying hospitalization trends and survival rates (Lorenzoni, et al., Int J Cardiol, 2018; Baldi, et al., Int J Cardiol, 2017), supported by a university-funded project. Expanding this exploration, I integrated machine learning techniques into extensive datasets, yielding predictive models for treatment outcomes and systematic reviews in specialized medical support (Berchiolla, et al., Scientific Reports, 2022; Giordano, et al., Systematic Reviews, 2023), also funded by university initiatives. More recently, from 2022 onward, my focus has centered on integrating patient preference studies into clinical research to refine decision-making frameworks. Preliminary insights from this ongoing work have been published (Giordano, et al., Applied Sciences, 2022), supported by a grant from another university, and are under review for presentation at the Society for Clinical Trials conference, emphasizing my commitment to evidence-driven healthcare advancement.</i>
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Descrizione Description:	Progetti di Ricerca di Ateneo - Università di Padova - Bando 2013. Title: The role of comorbidity, disability and polypharmacy in the care of patients with heart failure. Duration: 2 years. Role: Principal investigator.(https://www.unipd.it/sites/unipd.it/files/)
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Descrizione Description:	Ricerca Scientifica fondi DOR - Università di Padova - Bando 2017. Title: Data integration and harmonization for clinical outcome prediction. Duration: 2 years. Role: Principal Investigator.
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Descrizione Description:	Ricerca Scientifica fondi DOR - Università di Padova - Bando 2020. Title: Data reduction: a challenge to modelling in small cohorts on ECMO support. Duration: 2 years. Role: Principal Investigator.
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Descrizione Description:	Proof-of-value (POV) - Università di Torino - Bando 2022. Title: Repertor.io: Incorporating Patient Preference Studies into clinical research and decision models. Duration: 1 year. Role: team member.
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DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI DI SVILUPPO DI RETI E RELAZIONI SCIENTIFICHE NAZIONALI E INTERNAZIONALI (CON ANNESSO ELENCO DI MASSIMO 5 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, PARTECIPAZIONE O ORGANIZZAZIONE DI CONVEGNI NAZIONALI E INTERNAZIONALI; CONTRIBUTI A CONSORZI DI RICERCA) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF DEVELOPMENT OF NATIONAL AND INTERNATIONAL SCIENTIFIC NETWORKS AND RELATIONS (WITH ATTACHED LIST OF MAXIMUM 5 RESULTS, INCLUDING, FOR EXAMPLE, PARTICIPATION OR ORGANIZATION OF NATIONAL AND INTERNATIONAL CONFERENCES; CONTRIBUTIONS TO RESEARCH CONSORTIA):

Descrizione Description:	<i>Within the scientific community, I've been an active contributor to esteemed international organizations like EFSA and ECDC through framework contracts, offering specialized skills in systematic reviews and advanced biostatistics. Additionally, my involvement with the Italian Ministry of Health has provided opportunities to apply cutting-edge analytical techniques in the realm of digital epidemiology. Furthermore, I've collaborated with the Italian Society of Gastroenterology and Digestive Endoscopy, providing methodological support for the development of guidelines on celiac disease.</i>
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Descrizione Description:	2022- Senior expert within a Framework service contract (OC/EFSA/MESE/2022/03 - CT02) with the European Food Safety Authority (EFSA) to provide "Methodological support for the performance of literature reviews within evidence-based scientific assessments".
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Descrizione Description:	2023- Senior expert within a Framework service contract (OJ/2022/SMS/24218) with the European Centre for Disease Prevention and Control (ECDC) to provide "Biostatistics Services"
Descrizione Description:	2023- Collaboration with the Italian Society of Gastroenterology and Digestive Endoscopy (SIGE) to develop national guidelines on celiac disease.
Descrizione Description:	2017- Collaboration agreement with the Ministry of Health of the Italian Republic, Directorate for Hygiene, Food Safety and Nutrition for the implementation of the project named "Costruzione di un sistema di misura dell'introito calorico utilizzabile a livello di popolazione." Role: Scientific Responsible. Duration: 14 months.

DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI DI SUPPORTO ALLA COMUNITÀ SCIENTIFICA (CON ANNESSO ELENCO DI MASSIMO 5 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, RESPONSABILITÀ DI DIREZIONE DI COMITATI EDITORIALI; INCARICHI DI VALUTAZIONE DELLA RICERCA PRESSO ISTITUZIONI NAZIONALI O INTERNAZIONALI; RESPONSABILITÀ ISTITUZIONALI ALL'INTERNO DELL'ISTITUZIONE DI APPARTENENZA O DI ALTRE ISTITUZIONI) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF SUPPORT TO THE SCIENTIFIC COMMUNITY (WITH ATTACHED LIST OF MAXIMUM 5 RESULTS, INCLUDING, FOR EXAMPLE, MANAGEMENT RESPONSIBILITIES OF EDITORIAL COMMITTEES; RESEARCH EVALUATION ROLES AT NATIONAL OR INTERNATIONAL INSTITUTIONS; INSTITUTIONAL RESPONSIBILITIES WITHIN THE INSTITUTION OF AFFILIATION OR OTHER INSTITUTIONS):

Descrizione Description:	<i>My current professional roles encompass diverse aspects of academia and quality assurance. As an Editor for Heliyon journal, I actively contribute to shaping scientific discourse, ensuring rigorous standards in research publication. Concurrently, I coordinate the Biostatistics and Clinical Epidemiology Curriculum within a PhD program, fostering a robust educational framework for aspiring scholars in translational specialistic medicine. I hold positions directing two master's courses, facilitating specialized education in specific domains. Additionally, as the quality audit referent for a residency program in Medical Statistics and Biometrics, I oversee stringent quality benchmarks, ensuring compliance with regulatory standards, and continuously enhancing program credibility. Complementing these roles, I</i>
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	<i>contributed as a reviewer for Evaluation of Research Quality, engaging in the critical assessment of research methodologies and standards. These multifaceted roles reflect my dedication to academic leadership, educational excellence, and the consistent pursuit of high-quality standards across diverse academic and evaluative domains.</i>
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Descrizione Description:	Editor of the Public Health Section in Heliyon starting September 1, 2023. Heliyon is an open-access journal encompassing all sciences and is affiliated with the Cell Press family. For more details, visit: Heliyon - Public Health Section Editors
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Descrizione Description:	Coordinator of the Biostatistics and Clinical Epidemiology Curriculum within the PhD program in Translational Specialistic Medicine 'G.B. Morgagni' at the University of Padova, starting October 1, 2023.
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Descrizione Description:	Faculty member and responsible for quality audit of the Residency Programme in Medical Statistics and Biometrics at the University of Padova
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Descrizione Description:	Director of the one-year advanced post-graduate courses (Master di II livello) in "Principles and practice of biomedical systematic reviews and meta-analysis" and "Machine Learning" at the University of Padova
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Descrizione Description:	Reviewer for Evaluation of Research Quality (VQR) 2015-2019/ 2011-2014 / 2004-2010, Italian National Agency for the Evaluation of Universities and Research Institutes (ANVUR)ANVUR
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DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI VALORIZZAZIONE DELLE CONOSCENZE (CON ANNESSO ELENCO DI MASSIMO 3 RISULTATI, RELATIVI ALLA PARTECIPAZIONE DEL CANDIDATO ALLE ATTIVITÀ DI VALORIZZAZIONE DELLE CONOSCENZE) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF KNOWLEDGE VALORIZATION (WITH ATTACHED LIST OF MAXIMUM 3 RESULTS, RELATING TO THE CANDIDATE'S PARTICIPATION IN KNOWLEDGE VALORIZATION ACTIVITIES):

Descrizione Description:	
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Informazioni aggiornate alla data di candidatura 08-05-2025

Ileana BALDI

Il presente curriculum costituisce allegato e parte integrante dell'incarico sottoscritto