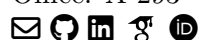# Eloy Alvarado Narváez

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Employment

2023 –	Academic Instructor, Universidad Técnica Federico Santa María	*Santiago, Chile.*
2022 – 2022	Lecturer, Universidad Técnica Federico Santa María	*Santiago, Chile.*
2021 – 2022	External Adviser, Instituto de Fomento Pesquero	*Valparaíso, Chile.*
2019 – 2022	Lecturer, Universidad de Valparaíso	*Valparaíso, Chile.*
2017 – 2017	Lecturer, Pontificia Universidad Católica de Valparaíso	*Valparaíso,Chile.*
2016 – 2017	Statistical Analyst, Equifax Inc.	*Santiago, Chile. / Atlanta, US.*

Education

2018 – 2022	Ph.D. in Statistics, Instituto de Estadística, Universidad de Valparaíso	*Valparaíso, Chile.*
	Advisors: Moreno Bevilacqua and Christian Caamaño	
2013 – 2015	Bachelor in Statistics / Statistician, Pontificia Universidad Católica de Valparaíso	*Valparaíso, Chile.*
2014	Exchange program in Korea University	*Seoul, South Korea*

Languages

Spanish	Native Speaker
English	Full professional proficiency, TOEFL iBT 90 (November, 2015)
French	Beginner A1, Institut Français
Korean	Beginner A2, Korea University

Research Articles

1. María Elisa Farías, Eloy Alvarado, and Javier Scavia. My beliefs or yours? contagion in times of financial distress. *Journal of Macroeconomics (Submitted)*, 2024.

2. Eloy Alvarado, Francisco Plaza-Vega, Carlos Montenegro, and Oscar Saavedra. Deep learning-based classification of species in central-southern fisheries in chile. *Canadian Journal of Fisheries and Aquatic Sciences (Under Review)*, 2024.

3. Felipe Torres-Rivera, Patrick Beuel, Eloy Alvarado, and Christian Jokiel. Methane Dynamics in the Wupper-Vorsperre Reservoir: Insights from Sediment Characterization and VFA Monitoring. *Journal of Soils and Sediments (Under review)*, 2024.

4. Moreno Bevilacqua, Eloy Alvarado, and Christian Caamaño-Carrillo. A flexible clayton-like spatial copula with application to bounded support data. *Journal of Multivariate Analysis*, page 105277, 2023.

5. Víctor Beltrán, Marco Flores, Cristina Sanzana, Fernanda Muñoz-Sepúlveda, Eloy Alvarado, Bernardo Venegas, Juan Carlos Molina, Sandra Rueda-Velásquez, and Alfredo von Marttens. Tooth Loss and Caries Experience of Elderly Chileans in the Context of the COVID-19 Pandemic in Five Regions of Chile. *International Journal of Environmental Research and Public Health*, 20(4):3001, January 2023.

6. Víctor Beltrán, Alfredo von Marttens, Pablo Acuña-Mardones, Cristina Sanzana-Luengo, Sandra J Rueda-Velásquez, Eloy Alvarado, Marco Flores, Angeline Cerda, and Bernardo Venegas. Implementation of a teledentistry platform for dental emergencies for the elderly in the context of the covid-19 pandemic in chile. *BioMed Research International*, 2022, 2022.

7. Víctor Beltrán, Pablo Acuña Mardones, Jaime Díaz, Eloy Alvarado, and Alfredo von Marttens. Tego: A new concept of teledentistry for the elderly through a web platform and mobile app in the context of the covid-19 pandemic. *Journal of Oral Research*, (1):1–8, 2022.

8. Cristina Sanzana-Luengo, Leonardo Díaz, Liliann Abarza, Eloy Alvarado, and Víctor Beltrán. Teledentistry protocol for the elderly in the context of the covid-19 pandemic through a web platform/mobile app: approach from the general dentist. *Journal of Oral Research*, pages 1–8, 2022.

9. M Stehlík, J Kiseľák, A Dinamarca, E Alvarado, F Plaza, FA Medina, S Stehlíková, J Marek, B Venegas, A Gajdoš, et al. Redacs: Regional emergency-driven adaptive cluster sampling for effective covid-19 management. *Stochastic Analysis and Applications*, pages 1–35, 2022.

Grants and Projects

2023 – 2024   Modeling and estimating massive point referenced spatial data, MATH-AMSUD AMSUD220041. Research Associate.

2018 – 2022   National Doctoral Degree, ANID. No. 2018-21180953

2020 – 2020   Semi-presential technological support platform for urgent and priority dental care for the elderly in the context of the COVID-19 pandemic in the Chilean population, ANID, Reference No. COVID0766, Chile. Collaborator

Teaching

Universidad Técnica Federico Santa María

2024/01-02   ICN 292: Management Information Systems

2024/01   PII 402: Stochastic Processes (Postgraduate)

2023/02   PII 402: Stochastic Processes (Postgraduate)

2023/01   ICN 292: Management Information Systems

2023/01   IND 163C: Business Analytics

2022/02   IND 163C: Business Analytics

Universidad Andrés Bello

2024/01   CIND 217: Inteligencia de Negocios

2023/02   IICG P01: Inteligencia de Negocios

Universidad de Valparaíso

2022/02   IEST 422: Statistical Quality Control

2022/02   LFIS 325: Statistics for Physical Sciences

2022/01   IECD 411: Machine Learning

2022/01   IEST 414: Time Series

2022/01   IECD 415: Multivariate Methods

2021/02   IECD 325: Linear Models and Experimental Design

2021/02   LFIS 325: Statistics for Physical Sciences

2021/02   IEST 412: Sampling Theory II

2021/01   IEST 322: Sampling Theory I

2021/01   IEST 412: Sampling Theory II

2021/01	IEC 311: Probability and Statistics
2020/02	IEST 322: Sampling Theory I
2020/02	LFIS 325: Statistics for Physical Sciences
2020/01	IEST 412: Sampling Theory II
2020/01	IEC 311: Probability and Statistics
2019/02	IEST 322: Sampling Theory I
2019/02	IEST 213: Statistical Methods
	Pontificia Universidad Católica de Valparaíso
2017/02	EST 205: Probability and Statistics
2017/01	EST 205: Probability and Statistics

Advising

2024	Nicolás Bravo. Industrial Engineering. Universidad Técnica Federico Santa María. Advisor.
2023	Ricardo Menares. Statistics and Data Science Engineering. Universidad de Valparaíso. Co-advisor.
2022	Cristóbal Collao. Statistical Engineering. Universidad de Valparaíso. Co-advisor.

Scientific Events

2023	*"Herramientas y estrategias para una investigación reproducible"*. 3rd Open Science Webinar USM. Organizer: Universidad Técnica Federico Santa María
2023	*"Retroalimentación basada en IA para estudiantes de Ingeniería"*. XXXV Chilean Congress of Engineering Education. Organizer: Chilean Society of Engineering Education
2022	*"A flexible clayton-like spatial copula with application to bounded support data"*. III Statistics Workshop: Graduate Contributions and Scientific initiation. Organizer: Chilean Statistical Society
2015	*"Stochastics differential equations in mathematical finance: The Black-Scholes Model"*. XXI Valparaíso Statistical Week. Pontificia Universidad Católica de Valparaíso

References

- Moreno Bevilacqua, Associate Professor at Universidad Adolfo Ibañez. `moreno.bevilacqua@uai.cl`
- Christian Caamaño, Associate professor at Universidad del Bío-Bío. `chcaaman@ubiobio.cl`
- Carlos Montenegro, Head of Fisheries Research at IFOP. `carlos.montenegro@ifop.cl`