

Eloy Alvarado Narváez

Departamento de Industrias, Universidad Técnica Federico Santa María, Santiago, Chile.

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EMPLOYMENT

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

EDUCATION

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

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. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.

7. M Stehlík, J Kisel'ák, 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. N° 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

- 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 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

- 2022 Cristóbal Collao. Statistical Engineering. Universidad de Valparaíso. Co-advisor.
- 2023 Ricardo Menares. Statistics and Data Science Engineering. Universidad de Valparaíso. Co-advisor.

SCIENTIFIC EVENTS

- 2023 *“Herramientas y estrategias para una investigación reproducible”*. 3rd Webinar Open Science 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