Eloy Alvarado Narváez

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

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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	$Valpara\'iso,\ Chile.$
2019 - 2022	Lecturer, Universidad de Valparaíso	Valparaíso, Chile.
2017 - 2017	Lecturer, Pontificia Universidad Católica de Valparaíso	$Valpara\'iso, Chile.$
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	ι

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. Is divergence the cause? contagion in times of financial distress. *Applied Economics (Under Review)*, 2024.
- 2. Eloy Alvarado, Francisco Plaza-Vega, Carlos Montenegro, and Oscar Saavedra. Deep learning-based classification of species in central-southern fisheries in chile. Latin American Journal of Aquatic Research (Under Review), 2024.
- 3. Moreno Bevilacqua, Eloy Alvarado, and Christian Caamaño-Carrillo. A flexible clayton-like spatial copula with application to bounded support data. *Journal of Multivariate Analysis*, 201:105277, 2024. Copula Modeling from Abe Sklar to the present day.
- 4. 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.
- 5. 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.
- 6. Víctor Beltrán, Pablo Acuña Mardones, Jaime Díaz, Eloy Alvarado, and Alfredo von Marttens. Tego:

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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.

- 7. 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.
- 8. 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.

WORKING PAPERS

- 1. Simulation-based road characterization using LiDAR intensity: a random field approach for mining haul roads. Joint work with David Godoy and Tomás Chávez.
- 2. Ali-Mikhail-Haq spatial copula. Joint work with Moreno Bevilacqua and Christian Caamaño-Carrillo.
- 3. Weibull random fields through Clayton spatial copula: An application to mining haul roads. Joint work with Christian Caamaño-Carrillo and Luis Riquelme.
- 4. A CAPM Approach with Stable Error Distributions: Application to Brazilian Market Dynamics. Joint work with María Elisa Farías and Kerlyns Martínez.

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

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- 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

- Nov 2024 "Weibull random fields through Clayton spatial copula An application to mining haul roads". III Statistical Engineering Conference. Organizer: Universidad de Santiago de Chile
- Oct 2024 "Archimedean-like spatial copulas". XLVII National Conference on Statistics. Organizer: Chilean Statistical Society
- Oct 2024 "Análisis de la intención de uso de TIC en Ingeniería Civil Industrial: Integrando UTAUT y Modelos de Ecuaciones Estructurales". XXXVI Chilean Congress of Engineering Education. Organizer: Chilean Society of Engineering Education
- Aug 2024 "Workshop: Investigación Reproducible con R". Open Science Webinar USM. Organizer: Universidad Técnica Federico Santa María
- Jul 2024 "Experiencias en Ciencia Abierta". Ciencia Abierta USM. Organizer: Universidad Técnica Federico Santa María
- Jul 2024 "Archimedean-like spatial copulas and their applications". Colloquium on Statistics and Data Science.
 Organizer: Pontificia Universidad Católica de Chile
- Nov 2023 *"Herramientas y estrategias para una investigación reproducible"*. 3rd Open Science Webinar USM. Organizer: Universidad Técnica Federico Santa María
- Oct 2023 "Retroalimentación basada en IA para estudiantes de Ingeniería". XXXV Chilean Congress of Engineering Education. Organizer: Chilean Society of Engineering Education
- Dec 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
- Oct 2015 "Stochastics differential equations in mathematical finance: The Black-Scholes Model". XXI Valparaíso Statistical Week. Pontificia Universidad Católica de Valparaíso

REFERENCES

- o Moreno Bevilacqua, Associate Professor at Universidad Adolfo Ibañez. moreno.bevilacqua@uai.cl
- O Christian Caamaño, Associate professor at Universidad del Bío-Bío. chcaaman@ubiobio.cl

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 ${\tt \bigcirc}\ {\tt Carlos\ Montenegro}, \ {\tt Head\ of\ Fisheries\ Research\ at\ IFOP.\ {\tt carlos.montenegro@ifop.cl}}$

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