

# Eloy Alvarado Narváez

Industries Department, Universidad Técnica Federico Santa María, Santiago, Chile.

Office: B-207



## 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

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| 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. 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.
2. 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.
3. 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.
4. 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.
5. 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.

**UNDER PEER REVIEW ARTICLES**

1. Moreno Bevilacqua, Eloy Alvarado, Christian Caamaño. “A flexible clayton-like spatial copula with application to bounded support data”. Journal of Multivariate Analysis.

**GRANTS AND PROJECTS**

- 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**

- 2023/01 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.

**SCIENTIFIC EVENTS**

- 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

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**REFERENCES**

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