

EDUCATION

University College London MPhil/PhD in Statistical Science	London, UK 2022–Present
Universidad de Chile M.S. in Engineering Sciences, Applied Mathematics – Thesis: “Nonstationary multi-output Gaussian processes via harmonizable spectral mixtures” – Supervisor: Dr. Felipe Tobar – GPA: 6.6/7.0	Santiago, Chile 2020–2021
École Centrale Paris Student Exchange Program	Paris, France Spring 2017
Universidad de Chile B.S. in Engineering Sciences, Mathematics	Santiago, Chile 2014–2019

EXPERIENCE

Universidad de Chile - Center for Mathematical Modeling Research Assistant, Supervisor: Dr. Joaquín Fontbona	Santiago, Chile September 2021–Junio 2022
Universidad de Chile - Center for Advanced Research in Education Research Assistant, Supervisor: Dr. Roberto Araya	Santiago, Chile January 2021–January 2022
Universidad de Chile - Center for Advanced Research in Education Research Assistant, Supervisor: Dr. Roberto Araya	Santiago, Chile March 2019–February 2020
KPMG Internship	Santiago, Chile Summer 2019
Universidad de Chile - Center for Advanced Research in Education Research internship, Supervisor: Dr. Patricio Rodríguez	Santiago, Chile Summer 2018

PUBLICATIONS

- [1] M. Altamirano, F.-X. Briol, and J. Knoblauch, “Robust and scalable Bayesian online changepoint detection”, *International Conference on Machine Learning 2023*, 2023.
- [2] M. Altamirano and F. Tobar, “Nonstationary multi-output Gaussian processes via harmonizable spectral mixtures”, in *Proceedings of The 25th International Conference on Artificial Intelligence and Statistics*, PMLR, 2022, pp. 3204–3218.
- [3] M. Altamirano, P. Uribe, D. Schlotterbeck, A. Jiménez, R. Araya, J. van der Molen Moris, and D. Caballero, “Unsupervised characterization of lessons according to temporal patterns of teacher talk via topic modeling”, *Neurocomputing*, 2021, ISSN: 0925-2312.

- [4] M. Altamirano, A. Jiménez, and R. Araya, “Lessons clustering using topics inferred by unsupervised modeling from textbooks”, in *International Conference in Methodologies and intelligent Systems for Technology Enhanced Learning*, Springer, 2020, pp. 85–94.

SCHOLARSHIPS AND AWARDS

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| • UCL Departmental Teaching Assistant studentship for 3.5 years | 2022 |
| • Best thesis, Msc in applied mathematics, Universidad de Chile | 2022 |
| • Best Paper Award at 10th International Conference in Methodologies and Intelligent Systems for Technology Enhanced Learning | 2020 |
| • Center of Mathematical Modelling (CMM), Msc in applied mathematics Scholarship | 2020 |
| • Faculty of Physical and Mathematical Sciences, Universidad de Chile, Outstanding student | 2015/2019 |

CODING AND COMPUTER SKILLS

- **Languages:** Python, Matlab, Java, R, SQL
- **Other code/languages:** AMPL, BOCOP, FreeFem
- **Additional Skills:** Linux, L^AT_EX, Office, Github

LANGUAGES

- **Spanish:** Native Speaker
- **English:** Advanced
- **French:** Basic

SERVICES TO THE COMMUNITY

- **Reviewing activities:** Artificial Intelligence and Statistics (AISTAS)

CONFERENCES

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| • Thirty-fourth Conference on Neural Information Processing Systems (NeurIPS) | 2020 |
| • Twenty-fifth Conference on Artificial Intelligence and Statistics (AISTATS) | 2022 |

EXTRACURRICULAR ACTIVITIES

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| • Member at Faculty of Physical and Mathematical Sciences Football Team, Universidad de Chile | 2016/2019 |
| • Member at Student Union of Mathematical Engineering, Universidad de Chile | 2018 |

REFERENCES

- **Dr Jeremias Knoblauch (PhD First Supervisor):** Lecturer at UCL’s Department of Statistical Science. j.knoblauch@ucl.ac.uk
- **Dr Francois-Xavier Briol (PhD Second Supervisor):** Lecturer at UCL’s Department of Statistical Science. f.briol@ucl.ac.uk