Matías Altamirano Montero

20/12/1995 maltamiranomontero.github.io matias.altamirano.22@ucl.ac.uk +44~7591985521

EDUCATION

University College London

MPhil/PhD in Statistical Science

London, UK 2022–Present

Universidad de Chile

Santiago, Chile

M.S. in Engineering Sciences, Applied Mathematics

2020-2021

- Thesis: "Nonstationary multi-output Gaussian processes via harmonizable spectral mixtures"

- Supervisor: Dr. Felipe Tobar

École Centrale Paris

Student Exchange Program

Paris, France Spring 2017

Universidad de Chile

B.S. in Engineering Sciences, Mathematics

Santiago, Chile 2014–2019

PUBLICATIONS

- [1] M. Altamirano, F.-X. Briol, and J. Knoblauch, "Robust and scalable Bayesian online changepoint detection", in *Proceedings of the 40th International Conference on Machine Learning*, PMLR, 2023, pp. 642–663.
- [2] M. Altamirano, F.-X. Briol, and J. Knoblauch, "Robust and conjugate Gaussian process regression", arXiv preprint arXiv:2311.00463, 2023.
- [3] 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.
- [4] 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.
- [5] 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.

EXPERIENCE

Unive	ersid	ad	de	Chile	, –	Center	tor	Mat	thematical	Modeling
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Research Assistant, Supervisor: Dr. Joaquín Fontbona

Santiago, Chile September 2021–June 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 Santiago, Chile Internship Summer 2019

Universidad de Chile - Center for Advanced Research in Education

Research internship, Supervisor: Dr. Patricio Rodríguez

Santiago, Chile Summer 2018

SCHOLARSHIPS & AWARDS

• Poster prize winner, UCL Departmental poster session	2023
• 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

Talks & Posters

- Poster: Robust and conjugate Gaussian process regression, UCL Statistical Science Departmental Poster session,

 Poster prize winner, London, UK

 November 2023
- Poster: Robust and scalable Bayesian online changepoint detection, International Conference on Machine Learning, Hawaii, US

 July 2023
- Talk: Robust and scalable Bayesian online changepoint detection, UCL Distance-based methods in Machine Learning workshop, London, UK

 June 2023
- Poster: Robust and scalable Bayesian online changepoint detection, SIAM UKIE National Student Chapter Conference, Oxford, UK

 June 2023
- Poster: Robust and scalable Bayesian online changepoint detection, London Symposium on Information Theory, London, UK May 2023

SERVICES TO THE COMMUNITY

• Reviewing activities: AISTAS (2024, 2023), Neurips (2023), ICML (2023 Workshop on Structured Probabilistic Inference & Generative Modeling)

TEACHING

• Teaching Assistant at Universidad de Chile

Multivariable Calculus (Fall 2016/Fall 2018/Fall 2019/Spring 2019/Fall 2020), Advanced Calculus and Applications
(Spring 2019), Linear Algebra (Spring 2017/Spring 2018), Introduction to Calculus (Spring 2017)

• Teaching Assistant at UCL STAT0004, STAT0005, STAT0023, STAT0040

CODING AND COMPUTER SKILLS

• Languages: Python, Matlab, Java, SQL, R

• Additional Skills: Linux, LATEX, Github

LANGUAGES

Spanish: Native SpeakerEnglish: Advanced

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• French: Basic

2023

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