

# Lasai Barreñada

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## Employment

*KU Leuven*

PhD Researcher in clinical prediction models (Leuven) 2022/10-

*Basque Center for Applied Mathematics (BCAM)*

Research technician in machine learning (Bilbao) 2021/12-2022/09

*Spanish national statistical office (INE Spain)*

Postgraduate internship (Madrid) 2020/10-2022/09

*Publicis media*

Data science internship (Madrid) 10/2019-05/2020

## Education

*KU Leuven*, PhD in Biomedical Sciences 2022-2026

*Complutense university of Madrid (UCM)*, European Master in Official Statistics (EMOS) 2019-2021

*University of Angers*, B.A. Marketing (Erasmus programme) 2017-2018

*University of Granada*, B.A. Marketing 2015-2019

## Publications

Barreñada, L., Ledger, A., Dhiman, P., Collins, G., Wynants, L., Verbakel, J. Y., Timmerman, D., Valentin, L., & Van Calster, B. (2024). ADNEX risk prediction model for diagnosis of ovarian cancer: Systematic review and meta-analysis of external validation studies. *Bmjmed*, 3(1), e000817. <https://doi.org/10.1136/bmjmed-2023-000817>

Barreñada, L., Dhiman, P., Timmerman, D., Boulesteix, A.-L., & Van Calster, B. (2024). *Understanding random forests and overfitting: A visualization and simulation study* (arXiv:2402.18612). arXiv. <https://doi.org/10.48550/arXiv.2402.18612>

Barreñada, L., Gálvez Sainz de Cueto, J. C., & Fernández Calatrava, J. (2022). Timeliness reduction on industrial turnover index based on machine learning algorithms. *Statistical Journal of the IAOS*, 38(4), 1195–1205. <https://doi.org/10.3233/SJI-220086>

## Technical Reports

Martínez-García, M., García-Gutierrez, S., Barreñada Taleb, L., Armañanzas, R., Inza, I., & Lozano, J. A. (2023). *Clinical severity prediction of COVID-19 admitted patients in Spain: SEMI and REDISSEC cohorts* [Preprint]. Health Informatics. <https://doi.org/10.1101/2023.02.08.23285589>

Barreñada, L. (2021). *Imputación de datos mediante random forest* [Master thesis]. <https://hdl.handle.net/20.500.14352/5138>

## Conference presentations

<i>Head-to-head comparisons of RMI and ADNEX models (presenation)</i> , ISUOG, Budapest	2024-09
<i>Multicenter flexible calibration curves using random effects meta-analysis (poster)</i> , ISCB, Thesalonikki	2024-07
<i>Drawing multicenter calibration curves (presentation)</i> , Sociedad Española de Bioestadística (SEB)	2024-02
<i>ADNEX model systematic review and meta-analysis (presentation)</i> , ISUOG, Seoul	2023-10
<i>Do we understand random forests? (poster)</i> , ISCB, Milan	2023-08
<i>Do we understand random forests? (poster)</i> , Young Statisticians Meeting (YSM), Leicester	2023-07

## Awards

<i>Young investigator award in gynaecology</i> , issued by ISUOG	2023
<i>Young statisticians prize (YSP)</i> , issued by IAOS	2022