Daniel Capurro, MD, PhD, FRACP, FAMIA, FAIDH, FACMI
Curriculum Vitae

School Computing and Information Systems
University of Melbourne
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EDUCATION

Grad Cert	Grad. Cert. in University Teaching, University of Melbourne, Melbourne, 2021.
Ph.D.	Biomedical and Health Informatics, University of Washington, Seattle, 2012
Residency	Internal Medicine, Pontificia Universidad Catolica de Chile, 2006
M.D.	Medical Doctor, Pontificia Universidad Catolica de Chile, 2003
B.S	(*Licenciado*) Medicine, Pontificia Universidad Catolica de Chile, 2000

CURRENT POSITIONS

2025–to date	Department of Health Services Research, Peter MacCallum Cancer Centre, Australia Professor of Clinical Informatics
2025–to date	Australian Digital Health Agency, Australia RACP Representative - National Clinical Governance Council
2025–to date	Royal Melbourne Hospital, Australia General Medicine Consultant Physician
2024–to date	University of Melbourne, Australia Clinical Associate Professor, Dept. of Medicine - Royal Melbourne Hospital (Honorary)
2023–to date	University of Melbourne, Australia Associate Professor (Tenured), School of Computing and Information Systems Centre for the Digital Transformation of Health
2023–to date	University of Washington Affiliate Associate Professor Dept. of Biomedical Informatics and Medical Education, School of Medicine

PAST POSITIONS

2021–to 2025	University of Melbourne, Australia Deputy Director, Centre for the Digital Transformation of Health

	Faculty of Medicine, Dentistry and Health Sciences
2023–2025	Royal Melbourne Hospital, Australia
	General Medicine Advanced Trainee
2019–22	University of Melbourne, Australia
	Senior Lecturer, School of Computing and Information Systems
	Centre for the Digital Transformation of Health
2018–19	Pontificia Universidad Catolica de Chile
	Associate Professor, Department of Internal Medicine, School of Medicine
2017–19	National Center for Health Information Systems
	Deputy Director
2015–18	UC Christus Healthcare Network
	Chief Medical Information Officer
2012–17	Pontificia Universidad Catolica de Chile
	Assistant Professor, Department of Internal Medicine, School of Medicine
2012–22	University of Washington
	Affiliate Assistant Professor
	Dept. of Biomedical Informatics and Medical Education, School of Medicine

PUBLICATIONS

Peer-Reviewed Journal Articles

2025   Lim L, Tanamas SK, Bull A, **Capurro D**, Snook K, Leung V, Marshall C, Laguitan R, Brett J, Worth LJ. Feasibility of semi-automated surveillance of healthcare-associated Staphylococcus aureus bloodstream infections using hospital Electronic Health Records in Victoria, Australia. BMJ Health & Care Informatics 2025 (in press)

2025   Yin P, Armas Cervantes A, **Capurro D**. Measuring and Visualizing Healthcare Process Variability. Journal of Biomedical Informatics 2025 (in press)

2025   Shaw L, Freeman S, Aranha S, Boulton A, **Capurro D**, Chapman W, Fazio T, Gazarek J, Layton M, Lyons K, Plumb S. Implementation of a digital coordination centre in a hospital: a qualitative evaluation of enablers, barriers and strategies. BMC Health Services Research. 2025 Sep 3;25(1):1185.

2025   Passey D, Ferdous H, Burns K, Gilbert C, Power E, Rose T, Bernhardt J, Thijs V, **Capurro D**. UI/UX design requirements for young stroke survivors: recommendations from the literature. npj Digital Medicine. 2025 Jul 9;8(1):417.

2025   Senevirathna P, Pires DE, **Capurro D**. Uncovering digital overdiagnosis-Quantification and mitigation using clinical trajectories: Heparin-induced thrombocytopenia use case. Journal of biomedical informatics.:104876.

2025   Liu J, Nguyen A, **Capurro D**, Verspoor K. Comparing Text-Based Clinical Risk Prediction in Critical Care: A Note-Specific Hierarchical Network and Large Language Models. IEEE J Biomed Health Inform. 2025 May 27

2025   Kalla M, Huckvale K, Bradford A, Schadewaldt V, CE Bray S, Borda A, Burns K, McAlpine H,

Thomas J, **Capurro D**, Abreu Lourenco RD. To framework, or not to framework? Reflections from co-design of a digital supportive care platform for patients with brain tumours and their carers. Digital Health. 2025 May;11:20552076251339302.

2025   Peek N, **Capurro D**, Rozova V, van der Veer SN. Bridging the Gap: Challenges and Strategies for the Implementation of Artificial Intelligence-based Clinical Decision Support Systems in Clinical Practice. Yearbook of Medical Informatics. 2024 Aug;33(01):103-14.

2025   Freeman S, Malone C, Black W, **Capurro D**, Chapman WW, Fazio TN, Gazarek J, Layton MJ, Lyons K, Pumo L, Plumb S, Astbury B. Evaluating the implementation of a digital coordination centre in an Australian hospital setting: a mixed method study protocol. BMJ Health Care Inform. 2025 Feb 6;32(1):e101300.

2025   Jung, Jun; Goller, JL; Chondros, Patty; Ong, Jason; Biezen, Ruby; Pires, Douglas; **Capurro, Daniel**; Faux, Noel; Manski-Nankervis, Jo-Anne; The gonorrhoea care cascade in general practice: a descriptive study to explore gonorrhoea management utilising electronic medical records. Sexual Health 2025; 22(1).

2025   Schadewaldt V, O'Brien T, Kalla M, Krishnasamy M, Burns K, Bray SC, Gilbert C, De Abreu Lourenco R, Thomas J, **Capurro D**, Chapman W. Development of an evidence-informed implementation strategy for a digital supportive care platform for brain tumour patients, their carers and healthcare professionals. Digital health. 2025 Feb;11:20552076251316713.

2025   Cheah, Ron; Chen, Caroline; **Capurro, Daniel**; Manski-Nankervis, Jo-Anne; Rozova, Vlada; Thursky, Karin; A systematic review on how primary care electronic medical record data have been used for antimicrobial stewardship. Antimicrobial Stewardship & Healthcare Epidemiology 2025; 5(1): e16.

2025   Dushyanthen, Sathana; Zamri, Nadia Izzati; Chapman, Wendy; **Capurro, Daniel**; Lyons, Kayley; Evaluation of an Interdisciplinary Educational Program to Foster Learning Health Systems: Education Evaluation. JMIR Medical Education 2025; 11:e54152

2024   Leniz, Javiera; Hernández-Jaña, Sam; Soto, Mauricio; Arenas, Eduardo; Margozzini, Paula; Suarez, Francisco; **Capurro, Daniel**; Rojas, María Paulina; Bambs, Claudia; Association between demographic, clinical characteristics and severe complications by SARS-CoV-2 infection in a community-based healthcare network in Chile. Plos One 2024; 12(12)e0314376

2024   Mariño RJ, **Capurro D**, Merolli M; Pilot implementation of a telehealth course for health professions students. BMC Medical Education 2024; 24(1):963.

2024   Delos Reyes R, **Capurro D**, Geard N. Modelling patient trajectories in emergency department simulations using retrospective patient cohorts. Computers in biology and medicine.;182:109147.

2024   Lawrence J, South M, Hiscock H, **Capurro D**, Sharma A, Ride J. Retrospective analysis of the impact of electronic medical record alerts on low value care in a pediatric hospital. Journal of the American Medical Informatics Association: JAMIA.:ocad239.

2024   Atala-Acevedo C, McGrath R, **Capurro D**, Glenister K, Bourke L, Morgan M, Simmons D, Mariño R. Identifying Frailty in Older Adults in Rural Victoria, Australia: A Secondary Analysis of Population Health Data. Journal of Aging and Health. 2024 Mar;36(3-4):170-81.

2024   Hallinan CM, Ward R, Hart GK, Sullivan C, Pratt N, Ng AP, **Capurro D**, Van Der Vegt A,

Liaw ST, Daly O, Luxan BG. Seamless EMR data access: Integrated governance, digital health and the OMOP-CDM. BMJ Health & Care Informatics. 2024;31(1).

2024   Senevirathna P, Pires DE, **Capurro D**. Data-driven overdiagnosis definitions: A scoping review. Journal of Biomedical Informatics.:104506.

2023   Liu J, **Capurro D**, Nguyen A, Verspoor K. Attention-based multimodal fusion with contrast for robust clinical prediction in the face of missing modalities. Journal of Biomedical Informatics 2023.

2023   Atala-Acevedo C, McGrath R, Glenister K, **Capurro D**, Bourke L, Simmons D, et al. Self-Rated Oral Health as a Valid Measure of Oral Health Status in Adults Living in Rural Australia. Healthcare 2023;11:1721. https://doi.org/10.3390/healthcare11121721.

2023   Atala-Acevedo, C, McGrath, R, **Capurro, D**, Glenister, K, Bourke, L, Morgan, M, Simmons, D, & Mariño, R. Identifying Frailty in Older Adults in Rural Victoria, Australia: A Secondary Analysis of Population Health Data. Journal of Aging and Health, published online June 1, 2023.

2023   Tortorella, GL Fogliatto FS, Tlapa Mendoza D, Pepper M, **Capurro D**. Digital transformation of health services: a value stream-oriented approach. International Journal of Production Research 2023;61(6):1814-1828.

2022   Jinghui Li, **Daniel Capurro**, Anthony Nguyen, Karin Verspoor. "Note Bloat" impacts deep learning-based NLP models for clinical prediction tasks. Journal of Biomedical Informatics 2022; DOI: https://doi.org/10.1016/j.jbi.2022.104149.

2022   Guilherme Luz Tortorellaa, Flavio S. Fogliatto, Sherah Kurnia, Matthias Thürer, **Daniel Capurro**. Healthcare 4.0 digital applications: An empirical study on measures, bundles and patient-centered performance. Technological Forecasting & Social Change 2022 (in press).

2022   Adriano Augusto, Timothy Deitz, Noel Faux, Jo-Anne Manski-Nankervis, **Daniel Capurro**. Process mining-driven analysis of COVID-19's impact on vaccination patterns. Journal of Biomedical Informatics 2022;130:104081.

2022   Eimy Oliart, Eric Rojas, **Daniel Capurro**. Are we Ready for Conformance Checking in Healthcare? Measuring Adherence to Clinical Guidelines: A Scoping Systematic Literature Review. Journal of Biomedical Informatics 2022;130:104076.

2022   Guilherme Tortorella, Anupama Prashar, Daniel Samson, Sherah Kurnia, Flavio Fogliatto, **Daniel Capurro**, Antony Jiju. Resilience development and digitalization of the healthcare supply chain: an exploratory study in emerging economies. The International Journal of Logistics Management 2022 (In press)

2022   Messina P, Pino P, Parra D, Soto A, Besa C, Uribe S, Tejos C, Prieto C, **Capurro D**. A survey on deep learning and explainability for automatic image-based medical report generation. ACM Computing Surveys 2022 (In press)

2022   Munoz-Gama J, Martin N, Fernandez-Llatas C … **Capurro D** et al. Process Mining for Healthcare: Characteristics and Challenges. Journal of Biomedical Informatics 2022. https://doi.org/10.1016/j.jbi.2022.103994.

2022   **Capurro D**, Coghlan S, Pires DEV. Preventing Digital Overdiagnosis. JAMA 2022; DOI:10.1001/jama.2021.22969

2021   Choo D, Dushyanthen S, Gray K, **Capurro D**, Merolli M, Chapman BE, Pires D, Hart GK, Huckvale K, Chapman WW, Lyons K. Designing a professional development online short course to foster Learning Healthcare Systems. International Journal of Medical Informatics 2021;158:104666. DOI: 10.1016/j.ijmedinf.2021.104666

2021   Liu J, **Capurro D**, Nguyen A, Verspoor K. Early prediction of diagnostic-related groups and estimation of hospital cost by processing clinical notes. NPJ Digital Medicine. 2021 4; 103. https://doi.org/10.1038/s41746-021-00474-9

2021   Liaw ST, Guo JG, Ansari S, Jonnagaddala J, Godinho MA, Borelli AJ, de Lusignan S, **Capurro D**, Liyanage H, Bhattal N, Bennett V. Quality assessment of real-world data repositories across the data life cycle: A literature review. Journal of the American Medical Informatics Association 2021: JAMIA.:ocaa340.

2020   Rada G, Pérez D, Araya-Quintanilla F, Ávila C, Bravo-Soto G, Bravo-Jeria R, Cánepa A, **Capurro D**, Castro-Gutiérrez V, Contreras V, Edwards J. Epistemonikos: a comprehensive database of systematic reviews for health decision-making. BMC Medical Research Methodology. 2020 Dec;20(1):1-7.

2020   **D Capurro**, M Barbe, C Daza, J Santa Maria, J Trincado. Temporal Design Patterns for Digital Phenotype Cohort Selection in Critical Care: a systematic literature assessment and qualitative synthesis. JMIR Medical Informatics 2020; 8(11).

2020   Marini G, Tag B, Goncalves J, Velloso E, Jurdak R, **Capurro D**, McCarthy C, Shearer W, Kostakos V. Measuring Mobility and Room Occupancy in Clinical Settings: System Development and Implementation. JMIR mHealth and uHealth. 2020;8(10):e19874.

2020   Garcia-Huidobro D, Rivera S, Chang SV, Bravo P, **Capurro D**. System-Wide Accelerated Implementation of Telemedicine in Response to COVID-19: Mixed Methods Evaluation. Journal of Medical Internet research. 2020;22(10):e22146.

2020   Arias M, Eojas E, Aguirre S, Cornejo F, Munoz-Gama J, Sepulveda M, **Capurro D**. Mapping the patient's journey in healthcare through process mining. International Journal of Environmental Research and Public Health 2020 (in press).

2020   Garcia-Huidobro D, Rivera S, Valderrama S, Bravo P, **Capurro D**. System-wide Accelerated Implementation of Telemedicine in Response to COVID-19: A Mixed-Methods Evaluation. Journal of Medical Internet Research 2020 (in press).

2019   Eberts M, **Capurro D**. Patient and Physician Perceptions of the Impact of Electronic Health Records on the Patient–Physician Relationship. Applied Clinical Informatics. 2019 Aug;10(04):729-34.

2019   Ibanez-Sanchez G, Fernandez-Llatas C, Martinez-Millana A, Celda A, Mandingorra J, Aparici-Tortajada L, Valero-Ramon Z, Munoz-Gama J, Sepúlveda M, Rojas E, Gálvez V, **Capurro D**, Traver V. Toward Value-Based Healthcare through Interactive Process Mining in Emergency Rooms: The Stroke Case. Int. J. Environ. Res. Public health. 2019 Jan;16(10):1783.

2019   Rojas E, Cifuentes A, Burattin A, Munoz-Gama J, Sepúlveda M, **Capurro D**. Performance Analysis of Emergency Room Episodes Through Process Mining. Int. J. Environ. Res. Public Health 2019; 16: 1274

2018   Soto M, Martinez-Gutierrez J, Momany M, **Capurro D**, Ciampi F, Cea E, Mergudich T,

Puschel K. It's Still Personal: Preferences of Underserved Chilean Women on a Mobile Technology Intervention for Cervical Cancer Screening. JMIR Mhealth Uhealth 2018. doi:10.2196/mhealth.9494.

2018 Devine EB, Van Eaton E, Zadworny ME, Symons R, Devlin A, Yanez D, Yetisgen M, Keyloun KR, **Capurro D**, Alfonso-Cristancho R, Flum DR. Automating Electronic Clinical Data Capture for Quality Improvement and Research: The CERTAIN Validation Project of Real World Evidence. eGEMs. 2018;6(1).

2018 Conca T, Saint-Pierre C, Herskovic V, Sepulveda M, **Capurro D**, Prieto F, Fernandez-Llatas C. Analysis of Multidisciplinary Collaboration in the Treatment of Patients with Type 2 Diabetes in Primary Care using Process Mining. Journal of Medical Internet Research 2018;20(4):e127. DOI: 10.2196/jmir.8884

2018 Momany MC, Martinez-Gutierrez J, Soto M, **Capurro D**, Ciampi F, Thompson B, Puschel K. Development of mobile technologies for the prevention of cervical cancer in Santiago, Chile study protocol: a randomized controlled trial. BMC Cancer 2017; 17 (1): 847.

2017 Alvarez C, Rojas E, Arias M, Munoz-Gama J, Sepúlveda M, Herskovic V, **Capurro D**. Discovering role interaction models in the Emergency Room using Process Mining. Journal of Biomedical informatics 2017.https://doi.org/10.1016/j.jbi.2017.12.015

2017 Rojas E, Sepulveda M, Munoz-Gama J, **Capurro D**, Traver V, Fernandez-Llatas C. Question-Driven Methodology for Analyzing Emergency Room Processes Using Process Mining. Applied Science 2017,7(3), 302; doi:10.3390/app7030302

2016 Rojas E, Munoz-Gama J, Sepúlveda M, **Capurro D**. Process Mining in Healthcare: A Literature Review. Journal of Biomedical Informatics 2016; DOI doi:10.1016/j.jbi.2016.04.007.

2014 **Capurro D**, Yetisgen M, van Eaton E, Black R, Tarczy-Hornoch P and the CERTAIN collaborative. Availability of Structured and Unstructured Clinical Data for Comparative Effectiveness Research and Quality Improvement: A Multi-Site Assessment. eGEMs (Generating Evidence & Methods to improve patient outcomes) 2014; 2(1): article 11.

2014 **Capurro D**, Ganzinger M, Perez-Lu J, Knaup P. Effectiveness of eHealth Interventions and Information Needs in Palliative Care: A Systematic Literature Review. Journal of Medical Internet Research 2014;16(3):e72.

2014 **Capurro D**, Cole K, Echavarría M, Joe J, Neogi T, Turner AM. The use of social networking sites for public health practice and research: a systematic review. Journal of Medical Internet Research 2014;16(3):e79.

2013 Devine EB, **Capurro D**, van Eaton, E, Alfonso-Cristancho R, Devlin A, Yanez, ND, Yetisgen-Yildiz M, Flum DR, Tarczy-Hornoch P and the CERTAIN Collaborative. Preparing Electronic Clinical Data for Quality Improvement and Comparative Effectiveness Research: The SCOAP CERTAIN Automation and Validation Project. eGEMs (Generating Evidence & Methods to improve patient outcomes) 2013; 1(1) Article 16.

2013 Rada G, Perez D, **Capurro D**. Epistemonikos: a free, relational, collaborative, multilingual database of health evidence. Stud Health Technol Inform 2013; 192: 486-490.

2013 Olsen R, Dunsmoor-Su R, **Capurro D**, McMahon K, Gravett M. Correlation between spontaneous preterm birth and midtrimester maternal serum estriol. The Journal of

Maternal-Fetal & Neonatal Medicine 2013.Online First DOI 10.3109/14767058.2013.815719.

2013   Kirchhoff K, **Capurro D**, Turner AM. A Conjoint Analysis Framework for Evaluating User Preferences in Machine Translation. Machine Translation 2013; Online First DOI 10.1007/s10590-013-9140-x

2013   Demiris G, Parker Oliver D, **Capurro D**, Wittenberg-Lyles E. Implementation Science: Implications for Intervention Research in Hospice and Palliative Care. The Gerontologist 2013; Online First DOI: doi:10.1093/geront/gnt022

2012   Turner AM, Kirchhoff K, **Capurro D**. Using Crowdsourcing Technology for Testing Multilingual Public Health Promotion Materials. Journal of Medical Internet Research 2012; 14(3):e79

2011   **Capurro D**, Soto M, Vivent M, Lopetegui M, Herskovic JR. Biomedical Informatics.Rev Med Chile 2011; 139: 1611-1616

2011   Medford R, Dunsmoor-Su R, **Capurro D**, McMahon K, Gravett M. Analysis of correlation between preterm labor and estriol levels early in pregnancy. Am J Obstet Gyn 2011; Supp1: S207.

2010   Rada G, **Capurro D**, Pantoja T, Corbalán J, Moreno G, Letelier LM, Vera C. Non-hormonal interventions for hot flushes in women with a history of breast cancer. Cochrane Database of Systematic Reviews 2010, Issue 9. Art. No.: CD004923. DOI: 10.1002/14651858.CD004923.pub2.

2007   **Capurro D**. Health Informatics in Chile: Responding to Health Reforms. Health Information and Libraries Journal 2007; Vol. 24 Issue 4: 287.

2007   **Capurro D**, Rada G. The Diagnostic Process. Rev Med Chil 2007; 135:534-538.

2004   **Capurro D**, Gabrielli L y Letelier LM, Intention to treat and follow up are important in assessing validity of a randomized clinical trial. Rev Med Chil. 2004 Dec;132(12):1557-60.

2004   **Capurro D** y Caiozzi G. Critical Appraisal of an article: Use of antioxidant vitamins for the prevention of cardiovascular disease: meta-analysis of randomized trials. Rev. Med Chile. Feb. 2004, vol.132, no.2, p.253-259.

1999   **Capurro D** and Huidobro-Toro J.P. The involvement of neuropeptide Y Y1 receptors in the blood pressure baroreflex: studies with BIBP 3226 and BIBO 3304. European Journal of Pharmacology 376 (1999) 251-255.

1998   Mezzano V, Donoso V, **Capurro D** and Huidobro-Toro JP. Increased neuropeptide Y Pressor Activity in Goldblatt hypertensive Rats: in Vivo Studies with BIBP 3226. Peptides, Vol 19, No 7, 1227-1232. 1998.

Peer-Reviewed Conference Papers

2024   Senevirathna P, Pires D, **Capurro D**. Clinical Translation of a Heparin-Induced Thrombocytopenia predictor for Intensive Care Patients. Proceedings of the 2024 Australasian Computer Science Week. 124-129.

2024   Dushyanthen S, Choo D, Perrier M, Gray K, **Capurro D**, Pires D, Chapman BE, Hart GK, Huckvale K, Chapman WW, Lyons K. Designing an Interprofessional Online Course to

Foster Learning Health Systems. Studies in health technology and informatics. 2024 Jan 25;310:1241-5.

2024   Chen HC, Armas-Cervantes A, Irving V, Dorricott B, **Capurro D**. Visualising Healthcare Process Variability. Studies in health technology and informatics. 2024 Jan 25;310:790-4.

2024   Burns K, Huckvale K, Borda A, Gilbert C, Ferdous H, Kalla M, Chapman W, **Capurro D**. Adapting an Environmental Scan for 'Insights Reporting': Learnings from an Online Brain Cancer Peer Support Platform. Studies in health technology and informatics. 2024 Jan 25;310:294-8.

2023   McLean C, **Capurro D**. Concept Drift Detection to Assess the Diffusion of Process Innovations in Healthcare. AMIA Annual Symposium 2022. Washington D.C. November 2022.

2022   Marino R, Merolli M, **Capurro D**. Information technology self-efficacy and confidence amongst health professions students enrolling in a telehealth educational course. The Fourteenth International Conference on eHealth, Telemedicine, and Social Medicine - eTELEMED 2022. Porto, Portugal.

2021   **Capurro D**, Velloso E. Dark Patterns, Electronic Medical Records, and the Opioid Epidemic. In Workshop: "What Can CHI do About Dark Patterns" at the CHI Conference on Human Factors in Computing Systems (CHI '21), May 8–13, 2021, Yokohama Japan.

2021   Fedyukova A, Pires D, **Capurro D**. A Comparative Analysis of Sepsis Digital Phenotyping Methods. ACSW'21—Health Informatics Knowledge Management. Dunedin, New Zealand

2017   **Capurro D**, Echeverry A, Figueroa R, Guiñez S, Taramasco C, Galindo C, Avendaño, García A, Härtel S. Chile's National Center for Health Information Systems: A Public-Private Partnership to Foster Health Care Information Interoperability. MEDINFO 2017, Hangzhou, China

2017   Demiris G, Turner A, **Capurro D**. Informatics Tools as Facilitators for Patient Engagement. MEDINFO 2017, Hangzhou, China.

2015   **Capurro D**, Chauduri S, Turner AM. The Online Availability of Multilingual Health Promotion Materials Produced by Local Health Departments: An information assessment. International Medical Informatics Association bi-annual meeting. MEDINFO 2015, Sao Paulo, Brazil.

2015   **Capurro D**, Barbe M, Daza CA; Santa Maria JA, Trincado J, Gomez I. ClinicalTime: Identification of Patients with Acute Kidney Injury using Temporal Abstractions and Temporal Pattern Matching. American Medical Informatics Association Joint Summit on Translational Science. San Francisco, CA. March 2015

2013   AM, Mandel H, **Capurro D**. Local Health Department Translation Processes: Potential of Automated Technologies to Help Meet Needs. American Medical Informatics Association Annual Symposium. Washington DC. October 2013.

2012   Kirchhoff K, **Capurro D**, Turner AM. Eliciting User Preferences in Machine Translation Using Conjoint Analysis. 16th Annual Conference of the European Association of Machine Translation. Trento, Italy. May 2012.

2012   Tepper M, **Capurro D**, Xia F, Vanderwende L, Yetisgen-Yildiz M. Statistical Section

Segmentation in Free-Text Clinical Records. Proceedings of the International Conference on Language Resources and Evaluation (LREC), Istanbul. May, 2012.

Peer-Reviewed Conference Abstracts

2024   Huckvale K, Smolenaers F, Ferdous H, Burns K, Kalla M, Mani M, **Capurro D**, Chapman W. A Hybrid Physical-Digital Simulation Laboratory to Expedite Context-Aware Design and Usability Testing in Digital Health. Studies in health technology and informatics. 2024 Jan 25;310:1513-4.

2024   Dushyanthen S, Choo D, Perrier M, Gray K, **Capurro D**, Pires D, Chapman BE, Hart GK, Huckvale K, Chapman WW, Lyons K. Designing an Interprofessional Online Course to Foster Learning Health Systems. Studies in health technology and informatics. 2024 Jan 25;310:1241-5.

2024   Nazarian N, Chapman W, **Capurro D**. Clinical Experiences of Working with Patient-Generated Health Data in Primary Care. Studies in Health Technology and Informatics. 2024 Jan 1;310:1564-5.

2024   Liu J, **Capurro D**, Nguyen A, Verspoor K. Uncovering Variations in Clinical Notes for NLP Modeling. Studies in health technology and informatics. 2024 Jan 25;310:1460-1.

2022   **Daniel Capurro**, Simon Coghlan, Douglas Pires. Preventing digital overdiagnosis. Preventing Overdiagnosis Conference 2002. 9-12 June, Calgary, Canada.

2022   Huckvale K, Chapman D, **Capurro D**. The Validitron Sandbox: a cloud environment to support prototyping, workflow design and integration testing of data-focused digital health applications. AMIA Annual Symposium 2022 - System Demonstration. Washington D.C., USA. November 2022.

2018   Gutierrez S, Erazo C, Guiñez S, Taramasco C, Galindo C, Figueroa R, **Capurro D**, Garcia A, Härtel S. CENS: Towards a Latin American Proposal for Core Competencies in Health Information Systems. AMIA Informatics Education Forum. New Orleans, LA. USA. June 2018.

2017   Daza C, Santa María J, Gomez I, Trincado J, Barbe M, **Capurro D**. [Automatic Detection of Sepsis Patients, a Big Data Approximation] in Spanish. 35th Chilean Critical Care Conference, 2017 Pucón, Chile.

2016   Daza C, Santa María J, Gomez I, Trincado J, Barbe M, **Capurro D**. Phenotyping Intensive Care Unit Patients Using Temporal Abstractions and Temporal Pattern Matching. 7th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM-BCB). October 2016, Seattle, WA.

2016   Rojas E, Sepulveda M, Munoz-Gama J, **Capurro D**, Seret A. Calculating Emergency Room Metrics through Process Mining. 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. August 2016, Orlando, USA.

2016   Daza C, Gomez I, Santa María J, Trincado J, Barbe M, **Capurro D**. Identification of Sepsis patients using Temporal Abstractions and Temporal Pattern Matching. Medical Informatics Europe-MIE 2016. Munich, Germany.

2016   Santa María J, Gomez I, Daza C, Trincado J, Barbe M, **Capurro D**. Identification of Patients with Ventilator Associated Pneumonia Using ClinicalTime, a Temporal Abstraction and

Temporal Pattern Matching System. Medical Informatics Europe-MIE 2016. Munich, Germany.

2015   Martinez-Gutiérrez J, Soto M, Momany M, Ciampi F, **Capurro D**, Cea E, Puschel K. "Messages for Your Health": Mobile use and cancer prevention for underserved Latinas in Santiago Chile. Eighth AACR Conference on The Science of Health Disparities in Racial/Ethnic Minorities and the Medically Underserved; November 13-16, 2015; Atlanta, Georgia

2015   **Capurro D**, Soto M, Catalan S. Characterization of Help Desk issues After the Implementation of an Emergency Department Electronic Health Record. International Medical Informatics Association bi-annual meeting. MEDINFO 2015, Sao Paulo, Brazil.

2015   Leon T, Gutierrez L, Garrido I, Grez M, Gomez S, Morales MI, Scheel F, Farías MA, Riquelme A, Perez E, Alvarez L, **Capurro D**, Ruiz S. Violencia de Pareja en Consultantes a Medicina Interna y su Asociación a Sintomatología Depresiva. Congreso Chileno de Medicina Interna 2015, Viña del Mar, Chile.

2015   Soto M, **Capurro D**, Catalan S. Evaluating the data completeness in the Electronic Health Record after the Implementation of an Outpatient Electronic Health Record. International Medical Informatics Association bi-annual meeting. MEDINFO 2015, Sao Paulo, Brazil.

2014   Devine EB, van Eaton E, Devlin A, Yanez, ND, Yetisgen-Yildiz M, **Capurro D**, Alfonso-Cristancho R, Flum DR, Tarczy-Hornoch P. Preparing electronic clinical data for quality improvement and research: The CERTAIN validation project. 4th Annual EDM Forum Symposium. San Diego, CA. June 2014.

2013   Rada G, **Capurro D**, RIvera S. Risk of bias assessment of studies included in multiple Cochrane reviews: agreement between different reviews. 2013 Cochrane Colloquium. Quebec City, Canada. September 2013

2013   Rada G, **Capurro D**, Rivera S, Peña J, Claro JC, Soto M, Neumann I, Perez D. Epistemonikos: a comprehensive, systematic, collaborative and multilingual database for evidence-based health care. 2013 Cochrane Colloquium. Quebec City, Canada. September 2013

2013   **Capurro D**, Ganzingher M, Perez J. Palliative Care from a Medical Informatics Perspective in Chile, Germany and Peru. MEDINFO 2013. International Medical Informatics Association bi- annual meeting. Copenhagen, Denmark. August 2013.

2012   Van Eaton E, Yetisgen-Yildiz M, Rhodes AD, **Capurro D**, Devine EB, Alfonso R, Flum DR, Tarczy- Hornoch P. Automating Clinical Data Extraction to Support Comparative Effectiveness Research. 34th Annual Meeting of the Society for Medical Decision Making, 2012. Phoenix, AZ.

2011   Turner AM, **Capurro D**, Krichoff K. The availability of translated public health materials for limited English proficiency populations in Washington State. 3rd Annual Health Literacy Conference, 2011. Chicago, IL.

2011   Brownstein M, **Capurro D**, Cole K, Karasz H, Turner AM. Improving Access to Health Materials through Machine Translation. Washington State Joint Conference on Health, 2011. Vancouver, WA.

2011   **Capurro D**, Chaudhuri S, Brownstein M, Turner AM. Assessment of Translated Public Health Materials in Washington State. University of Washington Health Services Annual

Research Meeting, 2011. Seattle, WA.

2011   **Capurro D**, Tarczy-Hornoch P. Assessing the complexity of clinical data requests. AMIA Translational Bioinformatics Summit. 2011. San Francisco, CA.

2010   Yetisgen-Yildiz M, Saleeem S, **Capurro D**. A Hybrid System for Named-Entity Extraction from Clinical Discharge Summaries. Fourth i2b2/VA Shared-Task and Workshop Challenges in Natural Language Processing for Clinical Data. 2010. Washington D.C.

2010   Rada G, Claro JC, Neumann I, **Capurro D**, Soto M, et al (The Epistemonikos Project). A Collaborative, Multilingual, Question-Based Database: An Easy way of retrieving Evidence and a Framework to Collaboration in Health Research. Epistemonikos Project. Evidence 2010. London, UK.

2009   **Capurro D**, Kalet I. Representation of a Simple and Unambiguous Clinical Guideline in a Computer Interpretable Language. AMIA 2009 Annual Symposium. San Francisco.

2008   **Capurro D**, Rada G, Pantoja T, Letelier LM, Moreno G. Do Cochrane systematic reviews help decision makers from middle income countries? Update of the Chilean experience. XVI Cochrane Colloquium, Freiburgh, Germany 2008.

2006   Letelier LM, **Capurro D**, Rada G., Zavala C., Moreno G., Pantoja T. Do current Cochrane Systematic Reviews (CSR) help decision makers from middle income countries? The Chilean experience. XIV Cochrane Colloquium, Dublin, Ireland 2006.

2005   **Capurro D**, Rivera S, Larrondo F. Use of the Cochrane Database of Systematic Reviews by Chilean residents: impact and barriers. XIII Cochrane Colloquium, Melbourne, Australia 2005.

1999   Huidobro-Toro JP, and **Capurro D**. Involvement of NPY in vascular sympathetic reflexes: in vivo studies with BIBP 3226 and BIBO 3304. 5th International NPY meeting, Grand Cayman 1999.

1998   **Capurro D**. y Huidobro-Toro, J.P. Antagonistas de NPY (BIBP y BIBO) bloquean el aumento de la presión arterial sistémica inducida por oclusión carotídea bilateral. XXth Annual Meeting of the Chilean Society of Pharmacology. Acacias Hotel, Vitacura, Santiago, Chile. 1998

Peer-Reviewed Book Chapters

2021   Daniel Capurro, Rebecca Grainger, Daniel Luna. Working as a Medical Informatician. In: Butler-Henderson K, Day K, Gray K, editors, The Health Information Workforce, 1st edition. 2021 Springer International Publishing.

2014   Luz María Letelier, Daniel Capurro, Jaime Cerda, Lorena Cifuentes, Juan Carlos Claro, Gabriel Rada, Solange Rivera, Victor Montori. Chapter 19.2 Examples of Likelihood Ratios in: Users' Guide to the Medical Literature 3rd Edition. 2014 American Medical Association.

2008   Luz Maria Letelier, Gabriel Rada, Daniel Capurro, Solange Rivera, Victor Montori. Chapter 17.2 Examples of Likelihood Ratios in: User's Guide to the Medical Literature 2nd Edition. 2008 American Medical Association

FUNDING: GRANTS, FELLOWSHIPS

2025   Two recently funded grants (NHMRC, MRFF) currently under embargo totaling $7,952,654.

2024   GenV: A powerful open research asset to improve maternal & infant health. Funding Agency: Medical Research Future Fund. $6,999,963 (CIA: Wake)

2024   Redesign of Antimicrobial Stewardship Programs in the Digital Era across One Health (RADAR – 1H). Funding Agency: National Health and Medical Research Council. $3,184,872 (CIA: Thursky).

2023   Reducing Staphylococcus aureus Bloodstream Infection Harms to Patients using Information Technology (ReSHaPe-IT). Funding agency: Royal Melbourne Hospital Foundation through the Innovation Acceleration Program. $50K AUD. (Co-CI: Lyn-li Lim)

2023   Implications of Digital Health Systems for healthcare professionals in Australian hospitals: A mixed method approach. Funding Agency: FEIT seed grant. $25K AUD over 6 months. (PI: Tortorella [MechEng])

2022   Digital transformation to support post-pandemic health recovery: opportunities and challenges in South Sulawesi Province. Funding Agency: Indonesia Ministry of Health. $100K AUD over 6 months. (PI: Kurnia)

2022   Appropriate Antimicrobial Use: Scaling Surveillance Using Digital Health. Funding Agency: Medical Research Future Fund$2.9M AUD over 5 years (PI: Thursky)

2021   Clinical informatics training modules, a gateway to a learning healthcare system (CI Capurro). Funding Agency: Universitas 21 ($ 18,000 AUD).

2021   MRFF 2020 Brain Cancer Survivorship Grant – Responding to need: Technology-enhanced brain cancer survivorship (CIA: Drummond). Funding Agency: Medical Research Future Fund ($2,600,000 AUD).

2020   A suite of modules for health professional entry to practice university students on the core elements of conducting telehealth consultations. Funding agency: Universitas 21 ($18.000 AUD)

2020   Teaching and Learning Initiatives. Telehealth education for entry to practice health professional students: A suite of core elements. University of Melbourne ($30,000 AUD).

2020   MACH Learning Health System Stream 1. Victorian Collaborative Healthcare Recovery Initiative. Named Investigator ($150.000 AUD)

2020   Benefits of implementing clinical terminologies, a literature scan. Role: PI ($20,000 AUD). Funding Agency: Australian Digital Health Agency.

2019   Generating Real-world Evidence using Digital Phenotypes. Role: PI ($244,000 USD/ 3 years). Funding Agency: Chilean National Commission for Science and Technology (CONICYT). — Declined

2019   Harnessing Information Visualization and Interactivity to Develop Interfaces for Explainable AI. Role: Co-investigator ($200,000 USD/ 3 years). Funding Agency: Chilean National Commission for Science and Technology (CONICYT).

2017   National Center for Health Information Systems ($5,000,000 USD/5 years). Role: Co-PI. Funding Agency: Chilean Development Agency (CORFO).

2014	Modulating factors and impact of intimate partner violence on physical and mental health. Role: Co-PI. Funding Source: Interdepartmental Research Fund, School of Medicine, Pontificia Universidad Catolica de Chile.
2014	Development of mobile technologies for cervical-cancer prevention in Santiago, Chile: a randomized controlled trial ($50,000 USD/18 months). Role: Co-Investigator. Funding Agency: Chilean National Commission for Science and Technology (CONICYT).
2013	Analysis of Multidisciplinary Collaboration in Primary Healthcare Using Process Mining ($115,000 USD/3 years). Role: Co-Investigator. Funding Agency: Chilean National Commission for Science and Technology (CONICYT).
2013	Identification of patient cohorts in large clinical databases using temporal abstractions and temporal patterns of clinical events. ($200,000 USD/4 years). Role: PI. Funding Agency: Chilean National Commission for Science and Technology (CONICYT).
2012	Introduction to Biomedical Informatics: developing transdisciplinary skills to improve biomedical research. Teaching Development Fund. ($4,200 USD). Role: PI. Pontificia Universidad Catolica de Chile
2008	Fulbright Faculty Development Program. US Department of State.
2008	MECESUP Faculty Development. Chilean Ministry of Health.
2007	Intensified Insulin Therapy versus Usual Therapy in Patients Hospitalized in the General Internal Medicine Ward ($50,000 USD/18 months). Role: Co-Investigator. Funding Agency: Chilean National Commission for Science and Technology (CONICYT).

INVITED TALKS

2025	"Existing Wisdom for New Tech: Proven Frameworks to Teach Digital Health" Australia & New Zealand Association for Health Professional Education Annual Conference. Perth, June 2025.
2025	"Beyond the Algorithm: Implementing AI for Better Patient Outcomes" The Healthcare Improvement Studies (THIS) Institute. The University of Cambridge, UK. May 2025.
2025	"Digital Overdiagnosis". Pathology Update 2025 - Royal College of Pathologists of Australia. Melbourne, February 2025.
2025	"AI for Antimicrobial Stewardship". Antimicrobials 2025. Australian Society for Antimicrobials Scientific Meeting. Melbourne, February 2025.
2024	"Clinical Process Mining". Department of Medicine, University of California, San Francisco (UCSF). November 8, 2024.
2024	"AI-Based Interventions, an Evidence-to-Recommendations Framework". Hokkaido University, Sapporo, Japan. September 6, 2024.
2024	"AI-based interventions, an evidence-to-recommendations framework". Australasian Medical Writers Association. Melbourne, 30 August 2024.
2023	"Emerging Technologies and the Care Economy". Australian Information Industry Association. Melbourne, 13 September 2023.
2023	"How Digital Health is Shaping Healthcare." Aickenhead Centre for Medical Discovery.

Melbourne, 27 April 2023.

2023   "Artificial Intelligence and Digital Overdiagnosis". University of Washington Department of Biomedical Informatics and Medical Education. February, 2023.

2023   "Artificial Intelligence and Digital Overdiagnosis". Artificial Intelligence and Technology Collaboratory for Healthy Aging. University of Pennsylvania. 5 January, 2023.

2022   "Validation of Digital Health Innovations: The Digital Health Validitron". Digital Health Malaysia Conference – DHM2022. Penang, Malaysia

2022   "The last mile: Validation of AI algorithms in healthcare" Centre for Eye Research Australia. Melbourne, 28 July, 2022.

2022   "Digital Transformation of Health: From Innovation to Translation" Aikenhead Centre for Medical Discovery - ACMD, Melbourne, Australia. 24 February 2022.

2022   "Process Mining in Healthcare". University of Washington Department of Biomedical Informatics and Medical Education, Seattle, USA; 24 February, 2022.

2021   "Digital Health Transformation: Challenges, Opportunities and Future Trends." State Polytechnic of Jember, Indonesia. October 6, 2021.

2021   "Riding the trends of life science innovations." University of Malaysia, September 9, 2021.

2020   "Overdiagnosis induced by digital algorithms." Argentinian Health Informatics Congress (CAIS 2020).

2019   "Standards for Clinical Decision Support Systems." Chilean HL7 Chapter. Santiago, Chile.

2019   "Artificial Intelligence in Medicine." Victorian Biomedical Imaging Capability. Melbourne, Australia.

2018   "Using Big Data for Healthcare and the Protection of Personal Data." Chilean Gastroenterology Symposium. Puerto Varas, Chile.

2018   "The Value of Data in Patient Experience." 1st Conference on Patient Experience in Primary Care. Santiago, Chile.

2018   "Big Data in Chile: opportunities and challenges." II Sigesa Latam Healthcare Management Seminar. Santiago, Chile.

2017   "Clinical Informatics: a healthcare innovation platform." Perspective of Chilean - French collaboration in chronic illness and ageing: The case of brain disorders. Santiago, Chile.

2017   "Opportunities and Challenges of Big Data in Healthcare." País Digital Foundation Healthcare Summit. Santiago, Chile.

2017   "Towards a National Congenital Hypothyroidism Registry." International Congenital Hypothyroidism Symposium. Santiago, Chile.

2016   "Big Data is Dirty Data: new approaches to patient phenotyping." OpenBeaucheff, Universidad de Chile. Santiago, Chile.

2016   "Technology and Disruptive Innovation in Healthcare." DUOC Technical Institute Academic Year Opening Ceremony. Santiago, Chile.

2015   "Clinical Informatics and its contribution to clinical research." Sótero del Río Hospital. Santiago, Chile.

2015   "Clinical Informatics: an organizational platform for healthcare innovation." Argentinian Health Informatics Annual Symposium. Cordoba, Argentina.

2014   "Implementation Science, an eHealth perspective." eHealth Symposium. Santiago, Chile.

2014   "EHRs: implications for research and clinical practice." San Juan de Dios Hospital. Santiago, Chile.

2014   "EHR Implementation in an Emergency Department." Emergency Department Management Symposium, Clínica Las Condes. Santiago, Chile.

2013   "Meaningful Use of Health Information Technologies." World Congress of Internal Medicine. Santiago, Chile.

2013   "Mobile Technologies for Health Care." World Congress of Internal Medicine. Santiago, Chile.

2013   "Meaningful use of the Electronic Medical Record." Chilean Chamber of Construction. Santiago, Chile.

2013   "Medical Informatics and Hospital Medicine." Hospital Medicine Symposium. Santiago, Chile.

2013   "Outpatient Monitoring of Patients in Palliative Care." Colombia National University. Bogota, Colombia.

MEDIA ENGAGEMENT

2022   "Your Apple Watch Says You Have a Heart Condition. Now What?" The Wall Street Journal, 1 October, 2022.

2022   "Your smartwatch and the path of overdiagnosis." ABC Radio National. Australia, 27 January 2022.

2022   "Commentary to: AI Systems can now predict heart attacks through eye scans." Newscop. Australia, 27 January, 2022.

2018   "Digital hospital." University of Santiago Radio. Chile, 26 November, 2018.

2016   "Private health networks at the forefront in medical informatics". El Mercurio. Chile, 21 June, 2016.

AWARDS

2023   Norman Curry Award for Innovation and Excellence in Educational Programs for the program "Learning Health Systems Short Course". University of Melbourne.

2022   Innovation Award. Australasian Society for Computers in Learning in Tertiary Education. "The Hitchhiker's guide to Jupyter notebooks: innovative cross-disciplinary informatics learning for digital health enthusiasts"

2017   Best Teacher Award. School of Medicine, Pontificia Universidad Catolica de Chile.

2016   Academic Clinical Management Award. School of Medicine, Pontificia Universidad Catolica de Chile.

2015	P. Universidad Catolica de Chile Travel Award ($ 1,500 USD)
2013	P. Universidad Catolica de Chile Travel Award ($ 1,300 USD).
2011	Graduate School's Fund for Excellence and Innovation – Graduate Student Travel Award, University of Washington
2009	Graduate School's Fund for Excellence and Innovation – Graduate Student Travel Award, University of Washington
2003	Dr. Gabriel Letelier Award—Best Internal Medicine Intern. School of Medicine, Pontificia Universidad Católica de Chile.

TEACHING EXPERIENCE

The University of Melbourne

ISYS 90069 Digital Transformation of Health (S1, 24-25) - 120 graduate students.

COMP 90089 Machine Learning Applications for Health (S2, 22-23-24-25) - 250 graduate students.

INFO 90001 eHealth Methods and Tools (S2, '19, '20, '21) - 30 to 50 graduate students.

INFO 90079 eHealth Project (S1/2, '20, '21) - 6 graduate students.

Pontificia Universidad Catolica de Chile

Integration in Medical Sciences I (Spring '15, '16, '17, '18) — 130 undergraduate students

Integration in Medical Sciences II (Fall '16, '17, '18) — 130 undergraduate students

Integration in Medical Sciences III (Spring '16, 17, 18) — 130 undergraduate students

Integration in Medical Sciences IV (Fall '17, '18) — 130 undergraduate students

University of Washington

Medical Information and Decision Making (Fall '09, '10: grad student instructor)

SERVICE

Editorial Roles

Deputy Editor-in-Chief - NPJ Digital Medicine 2022-to date

Editorial Board Member - Journal of Biomedical Informatics 2022-to date

Editorial Board Member - Informatics for Health and Social Care 2021-to date

Peer Reviewer

Funding agencies: Medical Research Future Fund (Australia), European Science Foundation, National Research and Development Agency (ANID-Chile)

Thesis examination: Monash University, Macquarie University, University of Queensland.

Journal of Biomedical Informatics

Journal of Medical Internet Research

Journal of the American Medical Informatics Association (Student Editorial Board 2010–2012)

Applied Clinical Informatics

Revista Medica de Chile

Revista Peruana de Medicina Experimental y Salud Publica

BMC Research Notes

Scientific Reports

PlosOne

Service to Field

Senior Committee Member - 22nd International Conference, AIME 2024 Salt Lake City, UT, USA, July 9–12, 2024

Member - Digital Health Advisory Committee - Royal Australasian College of Physicians. 2022 to date.

Advisory Board, PanCare Australia. 2021 to 2022.

Scientific Program Committee. International Workshop on Process-Oriented Data Science for Healthcare 2018, 2019, 2020, 2021, 2022, 2023.

Reviewer. Nursing Informatics International Congress 2020

Scientific Program Committee. AMIA Annual Symposium 2015, 2020, 2023.

Reviewer. AMIA 2020 Informatics Summit, March 2020

Scientific Program Committee. IEEE International Conference on Bioinformatics & Biomedicine 2019, 2020, 2021, 2022.

Scientific Program Committee. #MakeHealthChile, Health Data Science: Conference and Workshops. June 2019 Santiago, Chile.

Advisory Board, Chilean National Fund for Health Research (FONIS). 2015–2017

Advisory Board, Chilean National Center for Health Information Systems (CENS) 2020 to 2023

Vice-President, Chilean Association of Health Informatics. 2013–2015

Board Member, Chilean Association of Health Informatics. 2011–2013

Service to Department/University

Chair of Examiners. School of Computing and Information Systems. University of Melbourne. 2020 to 2022.

Committee on Gender Diversity in Academia. School of Medicine. Pontificia Universidad Catolica de Chile. 2018

Ph.D. Admission Committee student representative, University of Washington, 2011–12

Residency Admission Committee student representative, Pontificia Universidad Catolica de Chile, 2005

PROFESSIONAL AFFILIATIONS

Fellow of the Australasian Institute of Digital Health (former Australasian College of Health Informatics)

Fellow of the American Medical Informatics Association — Inaugural Class

Chilean Association of Health Informatics

CREDENTIALS

Fellow of the Royal Australasian College of Physicians - Adult Medicine Division (MIN: 110726)

Australian Health Practitioner Registration Agency - MED0002721827

Chilean Internal Medicine Board (CONACEM)

Chilean Health Superintendence - valid until 31/12/2025

Good Clinical Practice

CONSULTING ENGAGEMENTS

2019   Australian Digital Health Agency - Realised benefits of standard terminologies, a scoping literature review.

LANGUAGES

English   Fluent.

Spanish   Native.

Updated October 2025