

Researcher Health-related Publications – July 1, 2025 – June 30, 2026

Researcher	Title	Venue/Outlet
Dimitris Bertsimas	A Unified, Fast, and Transparent System for Designing Organ Allocation Policies	American Journal of Transplantation (Vol. 26, No. 7, S257)
Dimitris Bertsimas	A Multimodal and Explainable Machine Learning Approach to Diagnosing Multi-Class Ejection Fraction from Electrocardiograms	arXiv preprint (arXiv:2604.25942)
Dimitris Bertsimas	Robustifying and Selecting Cohort-Appropriate Prognostic Models under Distributional Shifts	arXiv preprint (arXiv:2604.16537)
Dimitris Bertsimas	Observing the Unobserved Confounding Through Its Effects: Toward Randomized Trial-Like Estimates from Real-World Survival Data	arXiv preprint (arXiv:2604.12137)
Dimitris Bertsimas	Artificial Intelligence for Automated, Highly Accurate, and Scalable Multimodal EHR Data Abstraction	medRxiv preprint (2026.03.16.26348522)
Dimitris Bertsimas	Leveraging Multimodal Machine Learning for Accurate Risk Identification of Intimate Partner Violence	npj Women's Health (Vol. 4, No. 1, Article 15)
Dimitris Bertsimas	Holistic AI in Medicine: Improved Performance and Explainability	npj Digital Medicine
Dimitris Bertsimas	Patient Outcome Predictions Improve Operations at Hartford HealthCare	INFORMS Journal on Applied Analytics (Vol. 56, No. 3, pp. 224-242)
Dimitris Bertsimas	Early Warning Index for Patient Deteriorations in Hospitals	arXiv preprint (arXiv:2512.14683)
Dimitris Bertsimas	An Interpretable AI Tool for SAVR vs TAVR in Low to Intermediate Risk Patients with Severe Aortic Stenosis	arXiv preprint (arXiv:2512.10308)
Dimitris Bertsimas	Detection and Localization of Subdural Hematoma Using Deep Learning on Computed Tomography	arXiv preprint (arXiv:2512.09393)
Dimitris Bertsimas	Towards Optimal Valve Prescription for Transcatheter Aortic Valve Replacement (TAVR) Surgery: A Machine Learning Approach	Health Care Management Science (Vol. 29, No. 3, Article 27)
Dimitris Bertsimas	Improving Survival Models in Health Care by Balancing Imbalanced Cohorts: A Novel Approach	JCO Clinical Cancer Informatics (Vol. 10, e2500190)
Dimitris Bertsimas	Can Artificial Intelligence Deliver on the Promise of Precision Medicine?	Hepatobiliary Surgery and Nutrition (Vol. 14, No. 5, pp. 847-850)

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Dimitris Bertsimas	Can Artificial Intelligence Improve the Appropriate Use and Decrease the Misuse of REBOA?	Bioengineering (Vol. 12, No. 10, 1025)
Dimitris Bertsimas	Modernizing the Design Process for US Organ Allocation Policy: Toward a Continuous Distribution Policy for Kidneys	Transplantation Direct (Vol. 11, No. 9, e1780)
Dimitris Bertsimas	An Artificial Intelligence Interpretable Tool to Predict Risk of Deep Vein Thrombosis After Endovenous Thermal Ablation	Journal of Vascular Surgery: Venous and Lymphatic Disorders (Vol. 13, No. 5, 102253)
Dimitris Bertsimas	Early Detection of Opioid Over-Procurement: A Semisupervised Machine Learning Approach	Manufacturing & Service Operations Management (Vol. 27, No. 6, pp. 1889-1904)
Mert Demirer	Fisher-Schultz Lecture: Generic Machine Learning Inference on Heterogeneous Treatment Effects in Randomized Experiments, With an Application to Immunization in India	Econometrica (Vol. 93, No. 4, pp. 1121-1164)
Joseph Doyle	Cumulative Risks of Foster Care Placement for U.S. Children: Evidence from Birth Cohort and Synthetic Cohort Approaches	Child Abuse & Neglect (Vol. 176)
Joseph Doyle	Sharing is Caring: The Role of Health Information Exchange on Patient Care	Working Paper
Joseph Doyle	Unwarranted Racial Disparity in U.S. Foster Care Placement	Journal of Policy Analysis and Management (Vol. 45, No. 2)
Joseph Doyle	Effects of Enhanced Legal Aid in Child Welfare: Evidence from an Experimental Design of Mi Abogado	American Economic Review (Vol. 115, No. 7)
Joseph Doyle	Cumulative Risks of Foster Care Placement for U.S. Children: Comparing Birth Cohort and Synthetic Cohort Approaches (working paper)	NBER Working Paper No. 34069
Swati Gupta	Improving Clinical Decision Support Through Interpretable Machine Learning and Error Handling in Electronic Health Records	Journal of the American Medical Informatics Association (ocaf058)
Mohammad Jalali	Cost-Effectiveness of Community Tuberculosis Screening in South Africa	American Journal of Respiratory and Critical Care Medicine
Mohammad Jalali	Effect of Containment Strategies for Respiratory Diseases on Infections Imported via International Travel to the USA: A Modelling Study	BMJ Open (Vol. 16, No. 2, e105013)
Mohammad Jalali	A Thyroid-Cancer-Specific Utility Index: Development and Valuation of the Thyroid Cancer Quality of Life Index	Thyroid
Mohammad Jalali	Efficacy of Lipiodol Embolization for Chronic Tendinopathy of the Rotator Cuff (ELECTRC): A Randomized Controlled Trial	Journal of Vascular and Interventional Radiology

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Mohammad Jalali	Prescription Depressant-Involved Overdose Mortality in Massachusetts (2000-2023): A Cohort Study	Journal of General Internal Medicine
Mohammad Jalali	Structural Drivers of the Drop in Opioid Overdose Deaths in the US	JAMA Psychiatry
Mohammad Jalali	Patient-Reported Outcomes Across Treatment Strategies in Papillary Thyroid Microcarcinoma: A Meta-Analysis	JAMA Otolaryngology-Head & Neck Surgery
Mohammad Jalali	Substances in Fentanyl Samples in the US Illicit Drug Supply: A Decade of Trends and Regional Variations Using Serial Cross-Sectional Analysis	Drug and Alcohol Dependence (112953)
Mohammad Jalali	Review of Human Behavior Integration in COVID-19 Modeling Studies	Journal of Public Health (fdaf082)
Mohammad Jalali	Tides Need STEMMED: A Locally Operating Spatiotemporal Mutually Exciting Point Process with Dynamic Network for Improving Opioid Overdose Death Prediction	Manufacturing & Service Operations Management
Mohammad Jalali	Family Dynamics and Environmental Factors Influencing Progression from Alcohol Experimentation to Initiation in Youth: Evidence from the Adolescent Brain Cognitive Development Study	medRxiv preprint (2025.06.23.25330149)
Mohammad Jalali	Dynamics of Youth Violence and the Prevention Efforts of Futbol for Good Programs in Colombia	Child & Youth Care Forum
Mohammad Jalali	Conceptualising the Impact of Telehealth on Rural Workforce Sustainability Using System Dynamics and the Gartner Hype Cycle	npj Health Systems (Vol. 2, No. 1, 38)
Mohammad Jalali	Bridging Data Gaps and Tackling Human Vulnerabilities in Healthcare Cybersecurity with Generative AI	PLOS Digital Health (Vol. 4, No. 10, e0001063)
Mohammad Jalali	The Aftershock: The Impact of Budget Reductions at the US National Institutes of Health on Research and Innovation	Available at SSRN 5399303
Mohammad Jalali	Critical Assessment of Large Language Models' (ChatGPT) Performance in Data Extraction for Systematic Reviews: Exploratory Study	JMIR AI (Vol. 4, No. 1, e68097)
Mohammad Jalali	Potential Trade-Offs of Proposed Cuts to the US National Institutes of Health	JAMA Health Forum (Vol. 6, No. 7, e252228)
Mohammad Jalali	Drug Involvement Variations in Overdose Death Spikes: County-Level Analysis in Massachusetts	BMJ Public Health (Vol. 3, No. 2)
Kate Kellogg	Large Language Models Require a New Form of Oversight: Capability-Based Monitoring	npj Digital Medicine (Vol. 9, No. 1, 375)

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Kate Kellogg	An Agentic AI System Enhances Clinical Detection of Immunotherapy Toxicities: A Multi-Phase Validation Study	medRxiv preprint
Kate Kellogg	A Field Guide to Deploying AI Agents in Clinical Practice	arXiv preprint (arXiv:2509.26153)
Erin Kelly	Effectiveness of a Participatory Voice Intervention on Psychological Well-Being Among Warehouse Workers: Results From the Fulfillment Center Intervention Study, United States, 2021-2023	American Journal of Public Health
Erin Kelly	Starting a Workplace Health and Well-Being Committee: A Step-By-Step Guide for Managers	Practitioner guide (MIT Sloan)
Thomas Kochan	IO Psychology and Labor: Making Up for Benign Neglect, Antipathy, and Missed Opportunities	Society for Industrial and Organizational Psychology
Thomas Kochan	Does Voice Gap Influence Workers' Job Attitudes and Well-Being? Measuring Voice as a Dimension of Job Quality	British Journal of Industrial Relations (Vol. 63, No. 3, pp. 429-444)
Danielle Li	What if NIH Had Been 40% Smaller?	Science (Vol. 389, No. 6767, pp. 1303-1305)
Tong Liu	The Impact of Patient Capital	Work in Progress (no link)
Andrew Lo	Quantifying Market Trajectories: A Study of Pharmaceutical Sales Uptake Curves and Related Parameters	Therapeutic Innovation & Regulatory Science
Andrew Lo	The Health of Nations Fund: Financing Global Drug Development	PLOS Global Public Health (Vol. 6, No. 6, e0005248)
Andrew Lo	Establishing a Commercial Solution for Extremely Rare Genetic Diseases	Nature Biotechnology (Vol. 44, No. 4, pp. 511-513)
Andrew Lo	Genetic Targets, Financial Creativity: BridgeBio's Model for Sustainable Drug Development	Drug Discovery Today (Vol. 31, No. 1)
Andrew Lo	Estimating Correlations Between Clinical Trial Outcomes Using Generalised Estimating Equations	Oxford Bulletin of Economics and Statistics (Early View)
Andrew Lo	Use of Bayesian Decision Analysis in the Design of Patient-Centered Clinical Trials for Kidney Failure Devices	Computers in Biology and Medicine (Vol. 198, 111150)
Andrew Lo	A Father's Crusade in Rare Disease Drug Development: A Case Study of Elpida Therapeutics and Melpida	Orphanet Journal of Rare Diseases (Vol. 20, Article 363)
Andrew Lo	Financing Drug Development via Adaptive Platform Trials	PLoS ONE (Vol. 20, No. 7, e0325826)

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Alexey Makarin	The Impact of Dating Apps on Young Adults: Evidence From Tinder	American Economic Journal: Applied Economics (Vol. 18, No. 2, pp. 61-106)
Alexey Makarin	A Consensus Statement on Potential Negative Impacts of Smartphone and Social Media Use on Adolescent Mental Health	Working Paper / Consensus Statement (large multi-author group)
Rahul Mazumder	STELLAR: A Flexible Ensemble Learning Framework Integrating Rare Variants to Enhance Polygenic Risk Prediction	medRxiv preprint (2026.06.07.26355109)
Rahul Mazumder	Mapping Disease Critical Spatially Variable Gene Programs by Integrating Spatial Transcriptomics with Human Genetics	bioRxiv preprint
Georgia Perakis	Optimal Interventions for Increasing Healthy Food Consumption Among Low-Income Populations	Management Science (Vol. 72, No. 6, pp. 5297-5314)
Georgia Perakis	Heterogeneous Treatment Effects in Panel Data: Insights into the Healthy Incentives Program	Available at SSRN 5393576
Georgia Perakis	Dynamic Resource Allocation for Healthcare Service Design: An Application to Geographic Cohorting	Major Revision, Service Science
Georgia Perakis	Addressing Healthcare Provider Burnout: Fair Online Hospital Diagnostic Service Scheduling	Major Revision, Production and Operations Management
Georgia Perakis	A Data-Driven, Interpretable, Risk-Aware Framework for Clinical Decision-Making Under Limited Resources	Under review, Operations Research
Hazhir Rahmandad	Can a Voice Channel Reduce Turnover? Evidence on Employee Voice and Exit from a Cluster-Randomized Trial in US Fulfillment Centers	Working paper
Hazhir Rahmandad	Effectiveness of a Participatory Voice Intervention on Psychological Well-Being Among Warehouse Workers: Results from the Fulfillment Center Intervention Study, United States	American Journal of Public Health
Hazhir Rahmandad	Faster Uptake, Slower Let-Down: Asymmetric Community Responses to Changing Risks During a Pandemic	Risk Analysis (Vol. 46, No. 4, e70228)
Hazhir Rahmandad	Identifying Delayed Human Response to External Risks: An Econometric Analysis of Mobility Change During a Pandemic	BMC Medical Research Methodology (Vol. 25, No. 1, 244)

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Anna Stansbury	A Retrospective Analysis of the Acquisition of Target's Pharmacy Business by CVS Health: A Labor Market Perspective	Review of Economics and Statistics (pp. 1-46)
Anna Stansbury	Minimum Wages and Workplace Injuries	Available at SSRN 5062047
Anna Stansbury	Better Labor Market Options Reduce Workplace Injuries	Available at SSRN 5570159
Nikos Trichakis	A Unified, Fast, and Transparent System for Designing Organ Allocation Policies	American Journal of Transplantation (Vol. 26, No. 7, S257)
Nikos Trichakis	Modernizing the Design Process for US Organ Allocation Policy: Toward a Continuous Distribution Policy for Kidneys	Transplantation Direct (Vol. 11, No. 9, e1780)
Erez Yoeli	Digital Adherence Support for Tuberculosis Treatment: A Multicentre Randomized Trial in Kenya	medRxiv preprint (2026.02.11.26346015)
Erez Yoeli	Operational Dosage: Implications of Capacity Constraints for the Design and Interpretation of Experiments	arXiv preprint (arXiv:2407.21322, v3 revised December 2025)