



Tina Hernandez-Boussard

Professor of Medicine (Computational Medicine), of Biomedical Data Science, of Surgery and, by courtesy, of Epidemiology and Population Health

CONTACT INFORMATION

- **Alternate Contact**

LIONEL JEREMIAH - Administrative Associate II

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Bio

BIO

Dr. Hernandez-Boussard is an Associate Dean of Research and Professor of Medicine (Biomedical Informatics), Biomedical Data Sciences, Surgery and Epidemiology & Population Health (by courtesy) at Stanford University. Her work is at the intersection of informatics and population health, promoting responsible AI across populations. She utilizes diverse, multimodal data to develop rigorous criteria and guidelines that steer the development of responsible AI, aiming to bridge gaps in health care and enhance patient outcomes. Dr. Hernandez-Boussard advocates for practices that ensure the benefits of digital technologies are realized across all segments of society

ACADEMIC APPOINTMENTS

- Professor, Computational Medicine
- Professor, Department of Biomedical Data Science
- Professor, Surgery
- Professor (By courtesy), Epidemiology and Population Health
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Associate Dean of Research, Stanford School of Medicine, (2022- present)
- Division Representative, Team Science, Stanford University, Department of Medicine, (2022- present)
- Director, Faculty Development, Biomedical Informatics, (2018-2022)
- Director, Surgical Health Services Research Unit, (2015-2017)
- Co-Director, Surgical Center for Outcomes Research & Evaluation, (2009-2015)

HONORS AND AWARDS

- Fellow, American College of Medical Informatics (2020)

- Innovation Award in Population Science, Stanford University (2012)
- Innovation Award in Population Science, Stanford University (2011)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chairmen, National Advisory Council for Healthcare Research and Quality of the AHRQ (2020 - 2020)
- Member, National Advisory Council for Healthcare Research and Quality of the AHRQ (2018 - 2019)
- Member, Leading the Biomedical Revolution Workgroup (2016 - 2018)
- Member, Health Services Research & Quality Review Section, AHRQ (2016 - 2018)
- Member, VA BD-Step Executive Committee (2015 - 2018)
- Member, Stanford Precision Health Committee (2015 - 2018)
- Member, Stanford Surgical Council Committee (2015 - 2017)
- Member, AHRQ Quality Indicators wrokgroup (2013 - 2015)
- Member, AHRQ Quality Indicator™ ICD-10-CM/PCS Conversion Project (2012 - 2013)

PROFESSIONAL EDUCATION

- M.S., Stanford University , Health Services Research (2013)
- Ph.D., University Claude Bernard, Lyon 1 , Computational Biology (1999)
- M.P.H., Yale University , Epidemiology (1993)
- B.A., University California, Irvine , Psychology (1991)
- B.S., University of California, Irvine , Biology (1991)

COMMUNITY AND INTERNATIONAL WORK

- International Quality Improvement, Bologna, Italy

LINKS

- Boussard Lab: <http://med.stanford.edu/boussard-lab.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My background and expertise is in the field of computational biology, with concentration in health services research. A key focus of my research is to apply novel methods and tools to large clinical datasets for hypothesis generation, comparative effectiveness research, and the evaluation of quality healthcare delivery. My research involves managing and manipulating big data, which range from administrative claims data to electronic health records, and applying novel biostatistical techniques to innovatively assess clinical and policy related research questions at the population level. This research enables us to create formal, statistically rigid, evaluations of healthcare data using unique combinations of large datasets.

PROJECTS

- Improving Quality of Postoperative Pain Care Through use of Electronic Health Records - Agency for Healthcare Research and Quality (AHRQ) (September 1, 2015 - 6/30/2020)
- Utilizing Electronic Health Records to Measure and Improve Prostate Cancer Care - National Cancer Institute (NCI) (7/1/2015 - 6/30/2020)
- Surgical Health Services Research - Stanford University
- Developing individual predictive models for pain management and opioids - Stanford University

Teaching

COURSES

2025-26

- Deploying and Evaluating Fair AI in Healthcare: BMDS 223, CSRE 323, EPI 220 (Spr)
- Using Real-World Data for Clinical and Population Health Research : BMDS 238, EPI 265, PSYC 265 (Spr)

2024-25

- Deploying and Evaluating Fair AI in Healthcare: BIOMEDIN 223, CSRE 323, EPI 220 (Spr)

2023-24

- Deploying and Evaluating Fair AI in Healthcare: BIOMEDIN 223, EPI 220 (Spr)

2022-23

- Deploying and Evaluating Fair AI in Healthcare: BIOMEDIN 223, EPI 220 (Spr)

STANFORD ADVISEES

Med Scholar Project Advisor

Arman Koul

Postdoctoral Faculty Sponsor

Yeon Mi Hwang, Namu Park, Soumyadeep Roy

Doctoral Dissertation Co-Advisor (AC)

Cesar Baeta

Master's Program Advisor

Sonia Narayanan, Kristine Ongaigui, Meg Quint

Doctoral (Program)

Alejandro Buendia, Maya Drusinsky, Joshua Lazaro

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Data Science (Phd Program)
- Biomedical Data Science (Masters Program)

Publications

PUBLICATIONS

- **Graph augmented transformers improve chemotherapy toxicity symptom extraction from clinical notes.** *Nature communications*
Saquand, E., Naderalvojud, B., Schuessler, M., Pillai, M., Rice, B. T., Blayney, D. W., Hernandez-Boussard, T.
2026
- **Genome modelling and design across all domains of life with Evo 2.** *Nature*
Brix, G., Durrant, M. G., Ku, J., Naghipourfar, M., Poli, M., Sun, G., Brockman, G., Chang, D., Fanton, A., Gonzalez, G. A., King, S. H., Li, D. B., Merchant, et al
2026
- **Evaluation of performance measures in predictive artificial intelligence models to support medical decisions: overview and guidance.** *The Lancet. Digital health*
Van Calster, B., Collins, G. S., Vickers, A. J., Wynants, L., Kerr, K. F., Barreñada, L., Varoquaux, G., Singh, K., Moons, K. G., Hernandez-Boussard, T., Timmerman, D., McLernon, D. J., van Smeden, et al

2025: 100916

- **Synthetic data, synthetic trust: navigating data challenges in the digital revolution.** *The Lancet. Digital health*
Koul, A., Duran, D., Hernandez-Boussard, T.
2025: 100924
- **AI, Health, and Health Care Today and Tomorrow: The JAMA Summit Report on Artificial Intelligence.** *JAMA*
Angus, D. C., Khera, R., Lieu, T., Liu, V., Ahmad, F. S., Anderson, B., Bhavani, S. V., Bindman, A., Brennan, T., Celi, L. A., Chen, F., Cohen, I. G., Denniston, et al
2025
- **Promoting transparency in AI for biomedical and behavioral research.** *Nature medicine*
Hernandez-Boussard, T., Lee, A. Y., Stoyanovich, J., Biven, L.
2025
- **Sequence modeling and design from molecular to genome scale with Evo.** *Science (New York, N.Y.)*
Nguyen, E., Poli, M., Durrant, M. G., Kang, B., Katrekar, D., Li, D. B., Bartie, L. J., Thomas, A. W., King, S. H., Bixi, G., Sullivan, J., Ng, M. Y., Lewis, et al
2024; 386 (6723): eado9336
- **AI and biosecurity: The need for governance.** *Science (New York, N.Y.)*
Bloomfield, D., Pannu, J., Zhu, A. W., Ng, M. Y., Lewis, A., Bendavid, E., Asch, S. M., Hernandez-Boussard, T., Cicero, A., Inglesby, T.
2024; 385 (6711): 831-833
- **Guiding Principles to Address the Impact of Algorithm Bias on Racial and Ethnic Disparities in Health and Health Care.** *JAMA network open*
Chin, M. H., Afsar-Manesh, N., Bierman, A. S., Chang, C., Colon-Rodriguez, C. J., Dullabh, P., Duran, D. G., Fair, M., Hernandez-Boussard, T., Hightower, M., Jain, A., Jordan, W. B., Konya, et al
2023; 6 (12): e2345050
- **Artificial intelligence/machine learning in Alaska Native healthcare systems: symposium perspectives.** *International journal of circumpolar health*
Hiratsuka, V., Pritchard, A., Day, G., Thomas, T., Wark, K., Shane, A., Onders, R., Hernandez-Boussard, T., Rice, B.
2026; 85 (1): 2677426
- **What Utah's clinical AI sandbox reveals about independent oversight.** *Nature medicine*
Gorijavolu, R., Jaiswal, N., Kesselheim, A. S., Sakran, J. V., Hernandez-Boussard, T., Celi, L. A.
2026
- **Building safer artificial intelligence mental health chatbots: a framework for transparency, evaluation, and shared accountability.** *Journal of the American Medical Informatics Association : JAMIA*
Lee, H., Handler, R., Mungle, T., Hernandez-Boussard, T.
2026
- **Evidence, transparency, and scope: concerns about Doctronic.** *BMJ (Clinical research ed.)*
Celi, L. A., Jaiswal, N., Gorijavolu, R., Hernandez-Boussard, T.
2026; 393: s833
- **Evaluating Large Language Models for Transparent Quality-of-Care Measurement in Children with ADHD.** *medRxiv : the preprint server for health sciences*
Bannett, Y., Pillai, M., Huang, T., Luo, I., Gunturkun, F., Hernandez-Boussard, T.
2026
- **The Inverse Care Law in the Age of AI - Geographic Disparities in Health Care Technology Access.** *NEJM AI*
Hwang, Y. M., Rice, B. T., Hernandez-Boussard, T.
2026; 3 (4)
- **Improving Fairness and Mitigating Bias in Multicenter Electronic Health Records Models to Predict Glaucoma Outcomes** *OPHTHALMOLOGY SCIENCE*
Zhao, Y., Ravindranath, R., Hernandez-Boussard, T., Stein, J. D., Wang, S. Y., SOURCE Consortium
2026; 6 (4): 101119

- **Biological data governance in an age of AI.** *Science (New York, N.Y.)*
Bloomfield, D., Black, J. R., Crook, O., Brandes, N., Hanke, M. S., Inglesby, T. V., Cicero, A., Pollack, R., Hernandez-Boussard, T., Imperiale, M. J., Altman, R. B., Pannu, J.
2026; 391 (6785): 558-561
- **Large Language Modeling-Enabled Analysis of Atrial Fibrillation on Social Media.** *Journal of the American Heart Association*
Parsa, S., Somani, S., Rogers, A. J., Hernandez-Boussard, T., Jain, S. S., Rodriguez, F.
2025: e043999
- **Racial and ethnic disparities in statin adherence: insights from the All of Us Research Program.** *Frontiers in cardiovascular medicine*
Escobar, G., Azizi, Z., de Hond, A., Lewis, A. A., Ng, M. Y., Rodriguez, F., Hernandez-Boussard, T.
2025; 12: 1541082
- **Cost-Benefit Analysis of Preventing Acute Care Use in Oncology Patients Following Systemic Therapy Using Medicare Claims Data: Retrospective Cohort Study.** *JMIR medical informatics*
Keller, S. A., Schuessler, M., Naderalvojud, B., Seto, T., Tian, L., Roy, M., Hernandez-Boussard, T.
2025; 13: e77891
- **Biologic Therapy and Risk of Mental Health Diagnosis in Patients with Hidradenitis Suppurativa.** *The Journal of investigative dermatology*
Ofori-Darko, A., Barzallo, D., Sinnott, S. M., Naik, H. B., Hernandez-Boussard, T., Amonoo, H. L., Barnes, L. A.
2025
- **Phenotyping Lipid-Lowering Therapies for Patients with ASCVD**
Somani, S., Kim, D., Ngo, S., King, S., Chen, T., Hernandez-Boussard, T., Rodriguez, F.
LIPPINCOTT WILLIAMS & WILKINS.2025
- **Performance Benchmarking of Smaller Language Models Against GPT-4 for Predicting Reasons for Oral Anticoagulation Nonprescription in Atrial Fibrillation**
Somani, S., Kim, D., Guerrero, E., Ngo, S., Nguyen, M., Sandhu, A., Alsentzer, E., Hernandez-Boussard, T., Rodriguez, F.
LIPPINCOTT WILLIAMS & WILKINS.2025
- **Challenges and Recommendations for Electronic Health Records Data Extraction and Preparation for Dynamic Prediction Modeling in Hospitalized Patients: Practical Guide and Tutorial.** *Journal of medical Internet research*
Albu, E., Gao, S., Stijnen, P., Rademakers, F. E., van Bussel, B. C., Collyer, T., Hernandez-Boussard, T., Wynants, L., Van Calster, B.
2025; 27: e73987
- **The fragile intelligence of GPT-5 in medicine.** *Nature medicine*
Handler, R., Sharma, S., Hernandez-Boussard, T.
2025
- **Large Language Models Outperform Traditional Natural Language Processing Methods in Extracting Patient-Reported Outcomes in Inflammatory Bowel Disease.** *Gastro hep advances*
Patel, P. V., Davis, C., Ralbovsky, A., Tinoco, D., Williams, C. Y., Slatner, S., Naderalvojud, B., Rosen, M. J., Hernandez-Boussard, T., Rudrapatna, V.
2025; 4 (2): 100563
- **Evaluating the impact of data biases on algorithmic fairness and clinical utility of machine learning models for prolonged opioid use prediction.** *JAMIA open*
Naderalvojud, B., Curtin, C., Asch, S. M., Humphreys, K., Hernandez-Boussard, T.
2025; 8 (5): ooaf115
- **Predicting treatment retention in medication for opioid use disorder: a machine learning approach using NLP and LLM-derived clinical features.** *Journal of the American Medical Informatics Association : JAMIA*
Nateghi Haredasht, F., Lopez, I., Tate, S., Ashtari, P., Chan, M. M., Kulkarni, D., Chen, C. A., Vangala, M., Griffith, K., Bunning, B., Miner, A. S., Hernandez-Boussard, T., Humphreys, et al
2025
- **Validation of the American Heart Association Predicting Risk of Cardiovascular Disease Events Equations in Diverse Socioeconomic Groups: The All of Us Cohort.** *Journal of the American Heart Association*
Lewis, A. A., Bacong, A. M., Palaniappan, L., Hernandez-Boussard, T.
2025: e041549

- **Approach to the Postmarket Evaluation of Consumer Wearable Technologies.** *JAMA cardiology*
Pundi, K., Bhavnani, S., Seninger, C., Zuckerman, B., Paulsen, J., Aguel, F., Din, N., Viggiano, B., Yoo, R. M., Dalal, N., Go, A. S., Granger, C., Krumholz, et al
2025
- **Racial and Ethnic Disparities in Statin Adherence: Insights from the All of Us Research Program.** *medRxiv : the preprint server for health sciences*
Escobar, G., Azizi, Z., de Hond, A., Lewis, A. A., Ng, M. Y., Rodriguez, F., Hernandez-Boussard, T.
2025
- **Protocol for development of a checklist and guideline for transparent reporting of cluster analyses (TRoCA).** *BMJ open*
Lisik, D., Shah, S. A., Basna, R., Dinh, T., Browne, R. P., Andrews, J. L., Wallace, M., Ezugwu, A., Marusic, A., Tran, D., Torres-Sospedra, J., Dam, H. C., Fournier-Viger, et al
2025; 15 (8): e099609
- **Enhanced Phenotype Identification of Common Ocular Diseases in Real-World Datasets** *OPHTHALMOLOGY SCIENCE*
Stein, J. D., An, H., Andrews, C. A., Pershing, S., Mungle, T., Bicket, A. K., Rosenthal, J. M., Zhang, A. D., Lee, W., Ludwig, C., Mekonnen, B., Hernandez-Boussard, T., SOURCE Consortium
2025; 5 (4)
- **Ensemble learning to enhance accurate identification of patients with glaucoma using electronic health records.** *JAMIA open*
Mungle, T., Naderalvojud, B., Andrews, C. A., An, H. S., Bicket, A., Zhang, A., Rosenthal, J., Lee, W. S., Ludwig, C. A., Mekonnen, B., Pershing, S., Stein, J. D., Hernandez-Boussard, et al
2025; 8 (4): ooaf080
- **Diagnostic framework to validate clinical machine learning models locally on temporally stamped data.** *Communications medicine*
Schuessler, M., Fleming, S., Meyer, S., Seto, T., Hernandez-Boussard, T.
2025; 5 (1): 261
- **Post-operative pain management in elders** *HELIYON*
Titan, A. L., Naderalvojud, B., Suarez, P., Coquet, J., Baiu, I., Hernandez-Boussard, T., Curtin, C.
2025; 11 (12)
- **Medical digital twins: enabling precision medicine and medical artificial intelligence.** *The Lancet. Digital health*
Sadée, C., Testa, S., Barba, T., Hartmann, K., Schuessler, M., Thieme, A., Church, G. M., Okoye, I., Hernandez-Boussard, T., Hood, L., Shmulevich, I., Kuhl, E., Gevaert, et al
2025: 100864
- **Short-term mortality after opioid initiation among opioid-naïve and non-naïve patients with dementia: a retrospective cohort study.** *BMC medicine*
Hwang, Y. M., Hah, J. M., Bramen, J. E., Hadlock, J. J., Hernandez-Boussard, T.
2025; 23 (1): 340
- **Large Language Models Using Free Text Clinical Notes Outperform ICD Coding in Identifying Patients With and Without Glaucoma**
Mungle, T., Andrews, C. A., Pershing, S., Rice, B., Wang, S. Y., Pillai, M., Bicket, A. K., Rosenthal, J. M., Zhang, A. D., Le, W., Ludwig, C. A., Mekonnen, B., Hernandez-Boussard, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **Preoperative Opioid Misuse Associations With Delayed Opioid Cessation, Pain, and Negative Affect After Spine Surgery.** *Neurospine*
Hah, J. M., Levine, S. C., Khairnar, S., Pirrotta, L., Ben-Natan, A. R., Tse, E., Hettie, G., Alamin, T., Veeravagu, A., Hu, S., Hernandez-Boussard, T.
2025; 22 (2): 451-464
- **Leveraging AI to enhance symptom capture and reduced hospitalizations.**
Koul, A., Roy, M., Hernandez-Boussard, T.
LIPPINCOTT WILLIAMS & WILKINS.2025: 1572
- **A scoping review of machine learning models to predict risk of falls in elders, without using sensor data.** *Diagnostic and prognostic research*
Capodici, A., Fanconi, C., Curtin, C., Shapiro, A., Noci, F., Giannoni, A., Hernandez-Boussard, T.
2025; 9 (1): 11
- **Global Initiative on AI for Health (GI-AI4H): strategic priorities advancing governance across the United Nations.** *NPJ digital medicine*

- Muralidharan, V., Ng, M. Y., AlSalamah, S., Pujari, S., Kalra, K., Singh, R., Schalet, D., Olantuji, T., Malpani, R., Matin, R. N., Omiye, J. A., Zhao, Y., Sands, et al
2025; 8 (1): 219
- **Artificial intelligence tools in supporting healthcare professionals for tailored patient care.** *NPJ digital medicine*
Kim, J., Chen, M. L., Rezaei, S. J., Hernandez-Boussard, T., Chen, J. H., Rodriguez, F., Han, S. S., Lal, R. A., Kim, S. H., Dosiou, C., Seav, S. M., Akcan, T., Rodriguez, et al
2025; 8 (1): 210
 - **Ensuring Fairness in Postsurgical Fall Detection for Older Adults: Age-Stratified Analysis of Large Language Models**
Pillai, M., Blumke, T., Studnia, J., Wang, Y., Veigulis, Z., Ware, A., Hoover, P., Carroll, I., Humphreys, K., Osborne, T., Asch, S., Hernandez-Boussard, T., Curtin, et al
WILEY.2025: S244
 - **Understanding Reasons for Oral Anticoagulation Nonprescription in Atrial Fibrillation Using Large Language Models.** *Journal of the American Heart Association*
Somani, S., Kim, D. D., Perez-Guerrero, E., Ngo, S., Seto, T., Al-Kindi, S., Hernandez-Boussard, T., Rodriguez, F.
2025: e040419
 - **Navigating Fairness in AI-based Prediction Models: Theoretical Constructs and Practical Applications.** *medRxiv : the preprint server for health sciences*
van der Meijden, S. L., Wang, Y., Arbous, M. S., Geerts, B. F., Steyerberg, E. W., Hernandez-Boussard, T.
2025
 - **Clinical trials informed framework for real world clinical implementation and deployment of artificial intelligence applications.** *NPJ digital medicine*
You, J. G., Hernandez-Boussard, T., Pfeffer, M. A., Landman, A., Mishuris, R. G.
2025; 8 (1): 107
 - **Accuracy and clinical effectiveness of risk prediction tools for pressure injury occurrence: An umbrella review.** *PLoS medicine*
Hillier, B., Scandrett, K., Coombe, A., Hernandez-Boussard, T., Steyerberg, E., Takwoingi, Y., Veličković, V. M., Dinnes, J.
2025; 22 (2): e1004518
 - **Reducing outpatient wait times through telemedicine: a systematic review and quantitative analysis.** *BMJ open*
Capodici, A., Noci, F., Nuti, S., Emdin, M., Dalmiani, S., Passino, C., Hernandez-Boussard, T., Giannoni, A.
2025; 15 (1): e088153
 - **Enhanced Phenotype Identification of Common Ocular Diseases in Real-World Datasets.** *Ophthalmology science*
Stein, J. D., An, H. S., Andrews, C. A., Pershing, S., Mungle, T., Bicket, A. K., Rosenthal, J. M., Zhang, A. D., Lee, W. S., Ludwig, C., Mekonnen, B., Hernandez-Boussard, T.
2025; 5 (4): 100717
 - **Development of secure infrastructure for advancing generative artificial intelligence research in healthcare at an academic medical center.** *Journal of the American Medical Informatics Association : JAMIA*
Ng, M. Y., Helzer, J., Pfeffer, M. A., Seto, T., Hernandez-Boussard, T.
2025
 - **Risk prediction tools for pressure injury occurrence: an umbrella review of systematic reviews reporting model development and validation methods.** *Diagnostic and prognostic research*
Hillier, B., Scandrett, K., Coombe, A., Hernandez-Boussard, T., Steyerberg, E., Takwoingi, Y., Velickovic, V., Dinnes, J.
2025; 9 (1): 2
 - **Large Language Models Outperform Traditional Natural Language Processing Methods in Extracting Patient- Reported Outcomes in Inflammatory Bowel Disease** *GASTRO HEP ADVANCES*
Patel, P., Davis, C., Ralbovsky, A., Tinoco, D., Williams, C. Y. K., Slatter, S., Naderalvojud, B., Rosen, M. J., Hernandez-Boussard, T., Rudrapatna, V.
2025; 4 (2)
 - **Community-engaged artificial intelligence: an upstream, participatory design, development, testing, validation, use and monitoring framework for artificial intelligence and machine learning models in the Alaska Tribal Health System.** *Frontiers in artificial intelligence*
Rice, B. T., Rasmus, S., Onders, R., Thomas, T., Day, G., Wood, J., Britton, C., Hernandez-Boussard, T., Hiratsuka, V.

2025; 8: 1568886

- **Where the road ends: emergency care sensitive conditions drive excess mortality in medevac-dependent rural Alaska.** *Emergency medicine journal : EMJ*
Rice, B., Britton, C., Rasmus, S., Hernandez-Boussard, T.
2024
- **Mental health care needs of caregivers of people with Alzheimer's disease from online forum analysis.** *Npj mental health research*
Kim, J., Cai, Z. R., Chen, M. L., Rezaei, S. J., Onyeka, S., Rodriguez, C. I., Hernandez-Boussard, T., Filkov, V., Whitmer, R. A., Linos, E., Choi, Y. K.
2024; 3 (1): 54
- **Scaling equitable artificial intelligence in healthcare with machine learning operations.** *BMJ health & care informatics*
Ng, M. Y., Youssef, A., Pillai, M., Shah, V., Hernandez-Boussard, T.
2024; 31 (1)
- **Development of Secure Infrastructure for Advancing Generative AI Research in Healthcare at an Academic Medical Center.** *Research square*
Ng, M. Y., Helzer, J., Pfeffer, M. A., Seto, T., Hernandez-Boussard, T.
2024
- **Defining and pursuing diversity in human genetic studies.** *Nature genetics*
Raven-Adams, M. C., Hernandez-Boussard, T., Joly, Y., Knoppers, B. M., Chandrasekharan, S., Thorogood, A., Kumuthini, J., Ho, C. W., Gonzalez, A., Nelson, S. C., Bombard, Y., Thaldar, D., Liu, et al
2024
- **Large language models outperform traditional natural language processing methods in extracting patient-reported outcomes in IBD.** *medRxiv : the preprint server for health sciences*
Patel, P. V., Davis, C., Ralbovsky, A., Tinoco, D., Williams, C. Y., Slatter, S., Naderalvojud, B., Rosen, M. J., Hernandez-Boussard, T., Rudrapatna, V.
2024
- **Applying natural language processing to patient messages to identify depression concerns in cancer patients.** *Journal of the American Medical Informatics Association : JAMIA*
van Buchem, M. M., de Hond, A. A., Fanconi, C., Shah, V., Schuessler, M., Kant, I. M., Steyerberg, E. W., Hernandez-Boussard, T.
2024
- **Using large language models to assess public perceptions around glucagon-like peptide-1 receptor agonists on social media.** *Communications medicine*
Somani, S., Jain, S. S., Sarraju, A., Sandhu, A. T., Hernandez-Boussard, T., Rodriguez, F.
2024; 4 (1): 137
- **Improving postsurgical fall detection for older Americans using LLM-driven analysis of clinical narratives.** *medRxiv : the preprint server for health sciences*
Pillai, M., Blumke, T. L., Studnia, J., Wang, Y., Veigulis, Z. P., Ware, A. D., Hoover, P. J., Carroll, I. R., Humphreys, K., Osborne, T. F., Asch, S. M., Hernandez-Boussard, T., Curtin, et al
2024
- **Long-Term Epidural Patching Outcomes and Predictors of Benefit in Patients With Suspected CSF Leak Nonconforming to ICHD-3 Criteria.** *Neurology*
Carroll, I., Han, L., Zhang, N., Cowan, R. P., Lanzman, B., Hashmi, S., Barad, M. J., Peretz, A., Moskatel, L., Ogunlaja, O., Hah, J. M., Hindiyeh, N., Barch, et al
2024; 102 (12): e209449
- **Predictability of buprenorphine-naloxone treatment retention: A multi-site analysis combining electronic health records and machine learning.** *Addiction (Abingdon, England)*
Nateghi Haredasht, F., Fouladvand, S., Tate, S., Chan, M. M., Yeow, J. J., Griffiths, K., Lopez, I., Bertz, J. W., Miner, A. S., Hernandez-Boussard, T., Chen, C. A., Deng, H., Humphreys, et al
2024
- **Equity in the Setting of Heart Failure Diagnosis: An Analysis of Differences Between and Within Clinician Practices.** *Circulation. Heart failure*
Gupta, A., Tisdale, R. L., Calma, J., Stafford, R. S., Maron, D. J., Hernandez-Boussard, T., Ambrosy, A. P., Heidenreich, P. A., Sandhu, A. T.
2024: e010718

- **ENHANCED PHENOTYPE IDENTIFICATION OF COMMON OCULAR DISEASES IN REAL-WORLD DATASETS**
Stein, J. D., An, H., Andrews, C., Pershing, S., Mungle, T., Bicket, A., Rosenthal, J. M., Zhang, A., Lee, W., Ludwig, C., Mekonnen, B., Hernandez-Boussard, T.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **DEVELOPMENT AND VALIDATION OF RISK PREDICTION TOOLS FOR PRESSURE INJURY OCCURRENCE: AN UMBRELLA REVIEW**
Hillier, B., Scandrett, K., Coombe, A., Hernandez-Boussard, T., Steyerberg, E., Takwoingi, Y., Velickovic, V., Dinnes, J.
ELSEVIER SCIENCE INC.2024: S272
- **The Impact of Race, Ethnicity, and Sex on Fairness in Artificial Intelligence for Glaucoma**
Wang, S. Y., Ravindranath, R., Hernandez-Boussard, T., Stein, J. D.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Contemporary attitudes and beliefs on coronary artery calcium from social media using artificial intelligence.** *NPJ digital medicine*
Somani, S., Balla, S., Peng, A. W., Dudum, R., Jain, S., Nasir, K., Maron, D. J., Hernandez-Boussard, T., Rodriguez, F.
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