





## Natalie Pageler

- Clinical Professor, Clinical Informatics
- Clinical Professor, Computational Medicine
-  NIH Biosketch available Online
-  Curriculum Vitae available Online

### CLINICAL OFFICE (PRIMARY)

3130 Alpine Rd Ste 200

Portola Valley, CA 94028

**Tel** (650) 850-5323    **Fax** (650) 284-0310

### ACADEMIC CONTACT INFORMATION

#### • Administrative Contact

Julie Kong - Administrative Associate

**Email** [juliek7@stanford.edu](mailto:juliek7@stanford.edu)

**Tel** 503-501-7418

## Bio

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### CLINICAL FOCUS

- Pediatric Critical Care Medicine

### ACADEMIC APPOINTMENTS

- Clinical Professor, Clinical Informatics
- Clinical Professor, Computational Medicine

### ADMINISTRATIVE APPOINTMENTS

- Chief Medical Information Officer, Stanford Children's Health, (2016- present)
- Program Director, Clinical Informatics Fellowship, (2019- present)
- Associate Program Director, Clinical Informatics Fellowship, Stanford University Medical Center, (2014-2019)
- Associate Chief Medical Information Officer, Stanford Children's Health, (2015-2016)
- Director of Clinical Informatics, Stanford Children's Hospital, (2014-2016)
- Physician Lead, Epic EMR Inpatient Implementation, Lucile Packard Children's Hospital, (2012-2014)
- Medical Director of Clinical Informatics, Lucile Packard Children's Hospital, (2012-2014)
- Associate Medical Director of Clinical Decision Support, Lucile Packard Children's Hospital, (2010-2012)

### PROFESSIONAL EDUCATION

- Residency: Stanford Health Care at Lucile Packard Children's Hospital (2007) CA
- Medical Education: Stanford University School of Medicine (2004) CA
- Fellowship: Stanford University Pediatric Critical Care Fellowship (2010) CA
- Board Certification: Clinical Informatics, American Board of Preventive Medicine (2014)
- Board Certification: Pediatrics, American Board of Pediatrics (2007)
- MEd, University of Cincinnati, Medical Education (2013)
- Board Certification, American Board of Preventive Medicine, Clinical Informatics (2013)

- Board Certification: Pediatric Critical Care Medicine, American Board of Pediatrics (2010)

## LINKS

- Stanford Clinical Informatics Fellowship: <http://systemsmedicine.stanford.edu/education/CI-Fellowship.html>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

In my administrative role, I oversee the development and maintenance of clinical decision support tools within the electronic medical record. These clinical decision support tools are designed to enhance patient safety, efficiency, and quality of care. My research focuses on rigorously evaluating--1) how these tools affect clinician knowledge, attitudes, and behaviors; and 2) how these tools affect clinical outcomes and efficiency of health care delivery.

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Data Science (Phd Program)
- Clinical Informatics (Fellowship Program)
- Pediatric Critical Care Medicine (Fellowship Program)

## Publications

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### PUBLICATIONS

- **Using a Large Language Model to Identify Adolescent Patient Portal Account Access by Guardians.** *JAMA network open*  
Liang, A. S., Vedak, S., Dussaq, A., Yao, D. H., Morse, K., Ip, W., Pageler, N. M.  
2024; 7 (6): e2418454
- **Paging the Clinical Informatics Community: Respond STAT to Dobbs v Jackson's Women's Health Organization.** *Applied clinical informatics*  
Arvisais-Anhalt, S., Ravi, A., Weia, B., Aarts, J., Ahmad, H. B., Araj, E., Bauml, J. A., Benham-Hutchins, M., Boyd, A. D., Brecht-Doscher, A., Butler-Henderson, K., Butte, A., Cardillo, et al  
2022
- **Organizational Perspectives on Technical Capabilities and Barriers Related to Pediatric Data Sharing and Confidentiality** *JAMA NETWORK OPEN*  
Bedgood, M., Kuelbs, C. L., Jones, V. G., Pageler, N.  
2022; 5 (7): e2219692
- **Assessment of Prevalence of Adolescent Patient Portal Account Access by Guardians.** *JAMA network open*  
Ip, W., Yang, S., Parker, J., Powell, A., Xie, J., Morse, K., Aikens, R. C., Lee, J., Gill, M., Vundavalli, S., Huang, Y., Huang, J., Chen, et al  
2021; 4 (9): e2124733
- **The Clinical Information Systems Response to the COVID-19 Pandemic.** *Yearbook of medical informatics*  
Reeves, J. J., Pageler, N. M., Wick, E. C., Melton, G. B., Tan, Y. G., Clay, B. J., Longhurst, C. A.  
2021; 30 (1): 105-125
- **Implications of the 21st Century Cures Act in Pediatrics.** *Pediatrics*  
Pageler, N. M., Webber, E. C., Lund, D.  
2020
- **Early experiences of accredited clinical informatics fellowships.** *Journal of the American Medical Informatics Association*  
Longhurst, C. A., Pageler, N. M., Palma, J. P., Finnell, J. T., Levy, B. P., Yackel, T. R., Mohan, V., Hersh, W. R.  
2016; 23 (4): 829-834
- **Use of a Checklist and Clinical Decision Support Tool Reduces Laboratory Use and Improves Cost.** *Pediatrics*

- Algaze, C. A., Wood, M., Pageler, N. M., Sharek, P. J., Longhurst, C. A., Shin, A. Y.  
2016; 137 (1): 1-8
- **Optimizing care of adults with congenital heart disease in a pediatric cardiovascular ICU using electronic clinical decision support\***. *Pediatric critical care medicine*  
May, L. J., Longhurst, C. A., Pageler, N. M., Wood, M. S., Sharek, P. J., Zebrack, C. M.  
2014; 15 (5): 428-434
  - **Use of Electronic Medical Record-Enhanced Checklist and Electronic Dashboard to Decrease CLABSIs**. *Pediatrics*  
Pageler, N. M., Longhurst, C. A., Wood, M., Cornfield, D. N., Suermondt, J., Sharek, P. J., Franzon, D.  
2014; 133 (3): e738-46
  - **Refocusing medical education in the EMR era**. *JAMA-the journal of the American Medical Association*  
Pageler, N. M., Friedman, C. P., Longhurst, C. A.  
2013; 310 (21): 2249-2250
  - **Medical education in the electronic medical record (EMR) era: benefits, challenges, and future directions**. *Academic medicine*  
Tierney, M. J., Pageler, N. M., Kahana, M., Pantaleoni, J. L., Longhurst, C. A.  
2013; 88 (6): 748-752
  - **A clinical case of electronic health record drug alert fatigue: consequences for patient outcome**. *Pediatrics*  
Carspecken, C. W., Sharek, P. J., Longhurst, C., Pageler, N. M.  
2013; 131 (6): e1970-3
  - **Embedding time-limited laboratory orders within computerized provider order entry reduces laboratory utilization\***. *Pediatric critical care medicine*  
Pageler, N. M., Franzon, D., Longhurst, C. A., Wood, M., Shin, A. Y., Adams, E. S., Widen, E., Cornfield, D. N.  
2013; 14 (4): 413-419
  - **Computerized Physician Order Entry With Decision Support Decreases Blood Transfusions in Children** *PEDIATRICS*  
Adams, E. S., Longhurst, C. A., Pageler, N., Widen, E., Franzon, D., Cornfield, D. N.  
2011; 127 (5): E1112-E1119
  - **EHR Workflows Contribute to Disparities by Language Preference in Parent Patient Portal Access**. *Applied clinical informatics*  
Chilukuri, N., Ballard, E., Xu, X., McPherson, T., Ritter, V., Bassett, H. K., Carlson, J., Pageler, N. M.  
2026; 17 (1): 19-27
  - **Artificial intelligence-generated draft replies to patient messages in pediatrics**. *JAMIA open*  
Liang, A. S., Vedak, S., Dussaq, A., Yao, D., Villarreal, J. A., Thomas, S., Chen, N., Townsend, T., Pageler, N. M., Morse, K.  
2025; 8 (6): ooaf159
  - **AI in Health Care: The Leadership Role of Board-Certified Clinical Informaticists**. *Applied clinical informatics*  
Morse, K. E., Pageler, N. M., Shah, N. H., Townsend, T., Sharp, C., Pfeffer, M. A.  
2025; 16 (3): 612-613
  - **Perspectives on Artificial Intelligence-Generated Responses to Patient Messages**. *JAMA network open*  
Kim, J., Chen, M. L., Rezaei, S. J., Liang, A. S., Seav, S. M., Onyeka, S., Lee, J. J., Vedak, S. C., Mui, D., Lal, R. A., Pfeffer, M. A., Sharp, C., Pageler, et al  
2024; 7 (10): e2438535
  - **GPT-4 VS. NLP: ENHANCING CONFIDENTIALITY IN ADOLESCENT HEALTH PORTALS BY AUTOMATED DETECTION OF INAPPROPRIATE GUARDIAN ACCESS**  
Liang, A. S., Vedak, S., Dussaq, A., Yao, D., Ip, W., Pageler, N.  
SPRINGER.2024: S607-S608
  - **Evaluation of a Large Language Model to Identify Confidential Content in Adolescent Encounter Notes**. *JAMA pediatrics*  
Rabbani, N., Brown, C., Bedgood, M., Goldstein, R. L., Carlson, J. L., Pageler, N. M., Morse, K. E.  
2024
  - **Structure and Funding of Clinical Informatics Fellowships: A National Survey of Program Directors**. *Applied clinical informatics*

- Patel, T., Chaise, A., Hanna, J., Patel, K., Kochendorfer, K., Chandawarkar, A., Yu, P., Conrad, S., Youens, K., Medford, R. J., Mize, D., Melnick, E. R., Hron, et al  
2024
- **Using clinical decision support systems to decrease intravenous acetaminophen use: implementation and lessons learned.** *Applied clinical informatics*  
Tse, G., Algaze, C., Pageler, N., Wood, M., Chadwick, W.  
2023
  - **Creation and Evaluation of a Clinical Informatics Match: Initial Findings.** *Applied clinical informatics*  
Hron, J. D., Lehmann, C. U., Long, S. W., Pageler, N. M., Kannry, J., Levy, B., Leu, M. G.  
2023; 14 (5): 973-980
  - **Association between electronic health record implementations and hospital-acquired conditions in pediatric hospitals.** *Applied clinical informatics*  
Rabbani, N., Pageler, N., Hoffman, J., Longhurst, C. A., Sharek, P.  
2023
  - **A Natural Language Processing Model to Identify Confidential Content in Adolescent Clinical Notes.** *Applied clinical informatics*  
Rabbani, N., Bedgood, M., Brown, C., Steinberg, E., Goldstein, R., Carlson, J., Pageler, N., Morse, K.  
2023
  - **The Prevalence of Confidential Content in Adolescent Progress Notes Prior to the 21st Century Cures Act Information Blocking Mandate.** *Applied clinical informatics*  
Bedgood, M., Rabbani, N., Brown, C., Goldstein, R., Carlson, J. L., Steinberg, E., Powell, A., Pageler, N. M., Morse, K.  
2023; 14 (2): 337-344
  - **Adolescent Privacy and the Electronic Health Record - Creating a Guardrail System to Ensure Appropriate Activation of Adolescent Portal Accounts.** *Applied clinical informatics*  
Xie, J., Hogan, A., McPherson, T., Pageler, N., Lee, T. C., Carlson, J.  
2023
  - **MEASURING ASSOCIATIONS BETWEEN ELECTRONIC HEALTH RECORD USE AND INPATIENT PEDIATRIC PROVIDER BURNOUT**  
Stevens, L., Su, F., Pageler, N., Tawfik, D., Sinha, A.  
LIPPINCOTT WILLIAMS & WILKINS.2023: 40
  - **Providing Online Portal Access to Families of Adolescents and Young Adults with Diminished Capacity at an Academic Children's Hospital: A Case Report.** *Applied clinical informatics*  
Carlson, J. L., Pageler, N., McPherson, T., Anoshiravani, A.  
2023; 14 (1): 128-133
  - **Medical Student and Trainee Notes in the Electronic Health Record Era.** *Chest*  
Stevens, L. A., Pageler, N. M., Longhurst, C. A.  
2022; 162 (6): 1238-1240
  - **An Open Letter Arguing for Closure of the Practice Pathway for Clinical Informatics Medical Subspecialty Certification.** *Applied clinical informatics*  
Turer, R. W., Levy, B. P., Hron, J. D., Pageler, N. M., Mize, D. E., Kim, E., Lehmann, C. U.  
2022; 13 (1): 301-303
  - **Monitoring Approaches for a Pediatric Chronic Kidney Disease Machine Learning Model.** *Applied clinical informatics*  
Morse, K. E., Brown, C., Fleming, S., Todd, I., Powell, A., Russell, A., Scheinker, D., Sutherland, S. M., Lu, J., Watkins, B., Shah, N. H., Pageler, N. M., Palma, et al  
2022; 13 (2): 431-438
  - **Closing Disparities in Pediatric Diabetes Telehealth Care: Lessons From Telehealth Necessity During the COVID-19 Pandemic.** *Clinical diabetes : a publication of the American Diabetes Association*  
Prahalad, P., Leverenz, B., Freeman, A., Grover, M., Shah, S., Conrad, B., Morris, C., Stafford, D., Lee, T., Pageler, N., Maahs, D. M.  
2022; 40 (2): 153-157
  - **Ensuring Adolescent Patient Portal Confidentiality in the Age of the Cures Act Final Rule.** *The Journal of adolescent health : official publication of the Society for Adolescent Medicine*

- Xie, J., McPherson, T., Powell, A., Fong, P., Hogan, A., Ip, W., Morse, K., Carlson, J. L., Lee, T., Pageler, N.  
2021
- **Quantifying Discharge Medication Reconciliation Errors at 2 Pediatric Hospitals.** *Pediatric quality & safety*  
Morse, K. E., Chadwick, W. A., Paul, W., Haaland, W., Pageler, N. M., Tarrago, R.  
2021; 6 (4): e436
  - **Pediatric subspecialty telemedicine use from the patient and provider perspective.** *Pediatric research*  
Pooni, R., Pageler, N. M., Sandborg, C., Lee, T.  
2021
  - **The Value of OpenNotes for Pediatric Patients, Their Families and Impact on the Patient-Physician Relationship.** *Applied clinical informatics*  
Sarabu, C., Lee, T., Hogan, A., Pageler, N.  
2021; 12 (1): 76–81
  - **Measuring Electronic Health Record Use in the Pediatric ICU Using Audit-Logs and Screen Recordings.** *Applied clinical informatics*  
Sinha, A., Stevens, L. A., Su, F., Pageler, N. M., Tawfik, D. S.  
2021; 12 (4): 737-744
  - **Improved Medical Student Engagement with EHR Documentation following the 2018 Centers for Medicare and Medicaid Billing Changes.** *Applied clinical informatics*  
Stevens, L. A., Pageler, N. M., Hahn, J. S.  
2021; 12 (3): 582-588
  - **PEDIATRIC ICU ELECTRONIC HEALTH RECORD USAGE AS MEASURED BY AUDIT LOGS AND SCREEN RECORDINGS**  
Sinha, A., Stevens, L., Su, F., Pageler, N., Tawfik, D.  
LIPPINCOTT WILLIAMS & WILKINS.2021: 156
  - **A Clinical Informatics Program Directors' Proposal to the American Board of Preventive Medicine.** *Applied clinical informatics*  
Pageler, N. M., Elkin, P. L., Kannry, J., Leu, M. G., Levy, B., Lehmann, C. U.  
2020; 11 (3): 483–86
  - **Rapid Deployment of Inpatient Telemedicine In Response to COVID-19 Across Three Health Systems.** *Journal of the American Medical Informatics Association : JAMIA*  
Vilendrer, S. n., Patel, B. n., Chadwick, W. n., Hwa, M. n., Asch, S. n., Pageler, N. n., Ramdeo, R. n., Saliba-Gustafsson, E. A., Strong, P. n., Sharp, C. n.  
2020
  - **Your Patient Has a New Health App? Start With Its Data Source.** *Journal of participatory medicine*  
Morse, K. E., Schremp, J., Pageler, N. M., Palma, J. P.  
2019; 11 (2): e14288
  - **Electronic health record (EHR) training program identifies a new tool to quantify the EHR time burden and improves providers' perceived control over their workload in the EHR.** *JAMIA open*  
DiAngi, Y. T., Stevens, L. A., Halpern-Felsher, B. n., Pageler, N. M., Lee, T. C.  
2019; 2 (2): 222–30
  - **OpenNotes: Toward a Participatory Pediatric Health System.** *Pediatrics*  
Sarabu, C., Pageler, N., Bourgeois, F.  
2018; 142 (4)
  - **OpenNotes: Toward a Participatory Pediatric Health System** *PEDIATRICS*  
Sarabu, C., Pageler, N., Bourgeois, F.  
2018; 142 (4)
  - **Enhancing pediatric airway safety using the electronic medical record.** *The Laryngoscope*  
Rameau, A. n., Wang, E. n., Saraswathula, A. n., Pageler, N. n., Perales, S. n., Sidell, D. R.  
2018
  - **Integration of Single-Center Data-Driven Vital Sign Parameters into a Modified Pediatric Early Warning System.** *Pediatric critical care medicine*

- Ross, C. E., Harrysson, I. J., Goel, V. V., Strandberg, E. J., Kan, P., Franzon, D. E., Pageler, N. M.  
2017; 18 (5): 469-476
- **Improving Communication with Primary Care Physicians at the Time of Hospital Discharge.** *Joint Commission journal on quality and patient safety*  
Destino, L. A., Dixit, A., Pantaleoni, J. L., Wood, M. S., Pageler, N. M., Kim, J., Platchek, T. S.  
2017; 43 (2): 80-88
  - **Designing An Individualized EHR Learning Plan For Providers** *APPLIED CLINICAL INFORMATICS*  
Stevens, L. A., DiAngi, Y. T., Schremp, J. D., Martorana, M. J., Miller, R. E., Lee, T. C., Pageler, N. M.  
2017; 8 (3): 924-35
  - **Safety Analysis of Proposed Data-Driven Physiologic Alarm Parameters for Hospitalized Children** *JOURNAL OF HOSPITAL MEDICINE*  
Goel, V. V., Poole, S. F., Longhurst, C. A., Platchek, T. S., Pageler, N. M., Sharek, P. J., Palma, J. P.  
2016; 11 (12): 817-823
  - **A rational approach to legacy data validation when transitioning between electronic health record systems.** *Journal of the American Medical Informatics Association*  
Pageler, N. M., Grazier G'Sell, M. J., Chandler, W., Mailes, E., Yang, C., Longhurst, C. A.  
2016; 23 (5): 991-994
  - **Implementation of Data Drive Heart Rate and Respiratory Rate parameters on a Pediatric Acute Care Unit.** *Studies in health technology and informatics*  
Goel, V., Poole, S., Kipps, A., Palma, J., Platchek, T., Pageler, N., Longhurst, C., Sharek, P.  
2015; 216: 918-?
  - **Implementation of Data Driven Heart Rate and Respiratory Rate Parameters on a Pediatric Acute Care Unit**  
Goel, V., Poole, S., Kipps, A., Palma, J., Platchek, T., Pageler, N., Longhurst, C., Sharek, P.  
edited by Sarkar, I. N., Georgiou, A., Marques, P. M.  
IOS PRESS.2015: 918
  - **Propylene glycol toxicity in children.** *The journal of pediatric pharmacology and therapeutics : JPPT : the official journal of PPAG*  
Lim, T. Y., Poole, R. L., Pageler, N. M.  
2014; 19 (4): 277-282
  - **Severe lactic acidosis and multiorgan failure due to thiamine deficiency during total parenteral nutrition.** *BMJ case reports*  
Ramsi, M., Mowbray, C., Hartman, G., Pageler, N.  
2014; 2014
  - **In reply.** *Academic medicine*  
Tierney, M. J., Longhurst, C. A., Pageler, N. M.  
2013; 88 (12): 1790-1791
  - **Significant Toxicity in a Young Female After Low-Dose Tricyclic Antidepressant Ingestion** *PEDIATRIC EMERGENCY CARE*  
Grover, C. A., Flaherty, B., Lung, D., Pageler, N. M.  
2012; 28 (10): 1066-1069
  - **Making pediatrics residency programs family friendly: Views along the professional educational continuum** *JOURNAL OF PEDIATRICS*  
Sectish, T. C., Rosenberg, A. R., Pageler, N. M., Chamberlain, L. J., Burgos, A., Stuart, E.  
2006; 149 (1): 1-2
  - **Heart rate correlates of attachment status in young mothers and their infants** *JOURNAL OF THE AMERICAN ACADEMY OF CHILD AND ADOLESCENT PSYCHIATRY*  
Zelenko, M., Kraemer, H., Huffman, L., Gschwendt, M., Pageler, N., Steiner, H.  
2005; 44 (5): 470-476
  - **Effect of head orientation on gaze processing in fusiform gyrus and superior temporal sulcus** *NEUROIMAGE*  
Pageler, N. M., Menon, V., Merin, N. M., Eliez, S., Brown, W. E., Reiss, A. L.  
2003; 20 (1): 318-329