

**Kenrick Dwain Cato**

**ACADEMIC APPOINTMENTS, HOSPITAL APPOINTMENTS, AND OTHER WORK EXPERIENCE**

**Academic Appointments**

01/2022 – Present	Nurse Scientist – Pediatric Data and Analytics	Children’s Hospital of Philadelphia
01/2022 – Present	Professor of Nursing, Clinician-Educator	University of Pennsylvania School of Nursing
11/2019 – 12/2022	Assistant Professor of Informatics Research, Emergency Department	Vagelos School of Physicians and Surgeons, New York, NY
09/2018 – 12/2022	Faculty Member	Columbia University Data Science Institute
07/2016 – 12/2022	Assistant Professor of Nursing	Columbia University School of Nursing, New York, NY
11/2014 – 07/2016	Associate Research Scientist	Columbia University School of Nursing, New York, NY

**Hospital Appointments**

01/2016 – 12/2022	Nurse Scientist	NewYork-Presbyterian Hospital, New York, NY
01/2009 – 08/2012	Staff Nurse	NewYork-Presbyterian Hospital, New York, NY

**Other Work Experience**

01/2012 – Present	Health Information Technology Consulting	Bellefield Consulting, New York, NY
03/2012-03/2014	Chief Informatics Officer	TeamofCare, Inc
01/2010 – 01/2012	Clinical Analyst, Quality and Patient Safety Division	New York Presbyterian Hospital - The University Hospital of Cornell, New York, NY
01/2009 – 01/2010	Staff Nurse, Surgical Oncology	New York Presbyterian Hospital – The University Hospital of Columbia, New York, NY
08/2008 -08/2011	Programmer/Analyst	Columbia University School of Nursing, New York, NY
07/1997 – 07/2006	Infantry Non-Commissioned Officer and Commissioned Officer	United States Army
08/1997 – 11/2001	Co-Founder, Executive Producer, Programmer	Night Kitchen Interactive, Philadelphia, PA

07/1996 – 08/1997	Manager, Customization Services Programming	Proscap Technologies, Fort Washington, PA
12/1995 – 07/1996	Quality Analyst, Data Analyst	Oxford Health Plans, Philadelphia, PA

## **EDUCATION**

09/2010 – 02/2014	Doctor of Philosophy in Nursing <i>Concentration:</i> Clinical Informatics <i>Dissertation Title:</i> “Hispanic Patients’ Role Preferences in Primary Care Treatment Decision Making” <i>Dissertation Sponsor:</i> Suzanne Bakken, PhD, RN, FAAN, FACMI, FIAHSI <i>Dissertation Citation:</i> Cato, K. D. (2014). <i>Hispanic patients’ role preferences in primary care treatment decision making.</i> Columbia University	Columbia University School of Nursing
09/2010 – 06/2012	Master of Philosophy in Nursing	Columbia University School of Nursing
05/2007 – 05/2008	Bachelor of Science in Nursing	Columbia University School of Nursing
09/1989 – 05/1994	Bachelor of Arts, Biological Anthropology	Swarthmore College

## **LICENSURE AND BOARD CERTIFICATION**

### **Licensure**

2008-Present	Registered Nurse, New York	New York State Board of Education License No: 603739
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### **Certification**

2014-Present	Certified Professional in Healthcare Information and Management Systems (CPHIMS)	Healthcare Information and Management Systems Society
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## **HONORS & AWARDS**

2022	AMIA/HL7 FHIR Applications Completion 1 <sup>st</sup> Place Winner
2021	Outstanding Faculty Award from Columbia University School of Nursing
2021	Co-Chair American Medical Informatics Association Clinical Informatics Conference
2019	Fellow American Academy of Nursing

2017 Caribbean American Healthcare Professional Award  
 2016 Fellow Columbia University Data Science Institute  
 2015 Fellow Healthcare Informatics Technology Lab (HITLAB)  
 2015 Fellow, New York Academy of Medicine  
 2012 Jonas Veterans Scholar, Jonas Center for Nursing Excellence  
 2012 Phi Beta Kappa, Theta Tau (nursing honorary)  
 2009 Oncology Nurse Scholar, Columbia University School of Nursing  
 2008 Lincoln Scholar, Columbia University School of Nursing  
 2005 Bronze Star, United States Army

## **ADMINISTRATIVE LEADERSHIP AND ACADEMIC SERVICE**

### **Academic Service**

#### *Applied Clinical Informatics*

2021-2023 Associate Editor

#### *Columbia University*

2018-Present Columbia University Irving Medical Center, Dean's  
 Advisory Committee for Faculty Diversity & Inclusion  
 2018 -Present Columbia University Irving Medical Center, Diversity  
 Review Committee Member  
 2016-2018 Columbia University Data and Science Committee and  
 Health Analytics subgroup, Member

#### *Journal of Emergency Nursing*

2020-Present Associate Editor

#### *Journal of Medical Internet Research Nursing*

2020-Present Associate Editor

#### *Nursing Informatics Working Group of American Medical Informatics Association*

2022-Present Chair  
 2019 -Present Member-at-large  
 2019 – 2021 Chair, Elections and Nominations Committee  
 2016-Present Member

#### *American Medical Informatics Association*

2023 Annual Symposium Scientific Committee Vice Chair  
 2021-Present Member, Board of Directors  
 2021 Annual Clinician Informatics Conference, Co-Chair  
 2017 iHealth Conference, Planning committee member

#### *New York Presbyterian Hospital (NYP)*

2016-Present Member, Magnet Steering Committee - NYP Lower  
 Manhattan  
 2016-Present Member, Magnet Steering Committee – NYP Morgan  
 Stanley Children's Hospital  
 2016-2021 Member, Annual Nursing Research Symposium Planning  
 Committee  
 2016 -2019 Member, Magnet Steering Committee – NYP Westchester  
 Division

*Cornell University* Institutional Review  
2016-2019 Member, Full Board

### **Administrative Leadership**

2018-Present Board Member, Magnet Media Films Advisory Board  
(<https://magnetmediafilms.com/about>)

2017-Present Board Member, Columbia School of Nursing Alumni Board

## **PROFESSIONAL ORGANIZATIONS AND SOCIETIES**

### **Memberships**

2014- Present Society of Medical Decision Making

2012-Present Sigma Theta Tau – Honor Society of Nursing

2010-Present Healthcare Information and Management Systems Society (HIMSS)

2009-Present American Medical Informatics Association

2008- Present Oncology Nursing Society

2008-Present American Nurses Association

### **Consultative**

2020-Present All of Us Researcher Platform, Heuristics

2017 - 2019 Planned Parenthood International, Data Management Strategy

2016 - 2017 Columbia University Dental School, Informatics in Kenya

2013 - 2019 Gay Men's Health Crisis, mHealth & Health Information Technology

### **Federal Review Panels**

2020-Present *National Institutes of Health*, Clinical Data Management and  
Analysis Study Section  
Member

03/2020 *National Institutes of Health*, Strategies to Improve Health  
Outcomes and to Reduce Disparities in Rural Populations  
Special Emphasis Panel

### **Expert Panels**

2021-Present Clinical Care Classification (CCC) Advisory Committee System Member

2021-Present Red Team for CUIMC Emergency Department Defense Advanced  
Research Projects Agency (DARPA) Data Science Grants Submission  
Member

- 2019-Present AHRQ/NIDDK Chronic Kidney Disease e-Care Plan Working Group Member
- 2016-2018 PCOR Clinical Decision Support Learning Network (PCOR CDS-LN) Advisory Council Member

### **National Consortia**

- 2021-Present National COVID Cohort Collaborative (N3C), Nursing Domain Group Co-Chair

### **Journal Reviewer**

- 2019 - Present *The Lancet HIV*
- 2019 - Present *The Journal of Epidemiology and Infection*
- 2019 - Present *The Joint Commission Journal on Quality and Patient Safety*
- 2019 - Present *Public Health Reports Symposium*
- 2018 - Present *Western Journal of Nursing Research*
- 2018 - Present *Journal of the American Medical Informatics Association*
- 2018 - Present *Journal of Medical Internet Research*
- 2018 - Present *Journal of Religion and Health*
- 2018 - Present *Journal of Medical Decision Making*
- 2018 - Present *Journal of Applied Clinical Informatics*
- 2018 - Present *BMJ Ethics*
- 2016 - Present *International Medical Informatics Association-Nursing Informatics Symposium*
- 2016 - Present *BMC Medical Informatics and Decision Making*
- 2015 - Present *American Journal of Infection Control*
- 2015 - Present *American Medical Informatics Association Symposium*

## **FELLOWSHIP AND GRANT SUPPORT**

### **Active Research Funding**

- 1UG3HD111247-01 Reddy,Friedman,Hall,Goffman (MPI) 2022-2026  
NIH  
Engaging Communities to Reduce Morbidity from Maternal Sepsis  
Role: Co-Investigator  
Funding:\$ 957,978
- 1R01HS028454-01A1 Friedman/Rossetti (MPI) 2022-2027  
NIH  
Modeling informatics data to track maternal risk and care quality  
Role: Co-Investigator  
Funding:\$3,392,328
- 1R01HS028454-01A1 Rossetti/Yen (MPI) 2022-2027  
AHRQ  
Essential Nurse Documentation: Studying HER Burden during COVID-19 (END-Burden)  
Role: Co-Investigator

Funding:\$1,991,162

American Nursing Foundation Cato/Rossetti (MPI) 2022-2023  
 CONCERN Implementation Toolkit: Advancing technology-enabled nursing expertise  
 and equitable predictions  
 Role: Multi-Principal Investigator  
 Funding:\$1,500,000

Pilot Award Barcelona(PI) 2022-2023  
 Columbia University Data Science institute  
 Using Machine Learning to Measure Racial/Ethnic Bias in Obstetric Settings  
 Role: Co-Investigator  
 Funding:\$150,000

NIH/NCATS Kim(PI) 2021-2022  
 Columbia University Collaborative and Multidisciplinary Pilot  
 Understanding Clinician Workflow and Burnout Through Electronic Health Record Audit  
 Logs  
 Role: Co-Investigator  
 Funding:\$40,000

N/A Rossetti(PI) 2020-2022  
 Biomedical Advanced Research and Development Authority (BARDA)Quantum Leap  
 Clinician Usability and Interoperability of Clinical Trials Electronic Data Capture at Point  
 of Care  
 Role: Co-Investigator  
 Funding: \$174,030

Pilot Award Landau(PI) 2020-2022  
 Columbia University Data Science institute  
 Artificial Intelligence-Assisted Identification of Child Abuse and Neglect in Hospital  
 Settings with Implications for Bias Reduction and Future Interventions  
 Role: Investigator  
 Funding:\$200,000

R01 HS28220-01 Kaufman/Senathirajah (PI) 2020-2022  
 AHRQ  
 Evaluating and Enhancing Health Information Technology for COVID-19 Response  
 Workflow in a Specialized COVID-19 in a Medically Underserved Community  
 Role: Co-investigator (Subsite PI)  
 Funding: \$894,961

1R01HS027742-01 Topaz (PI) 2020-2024  
 AHRQ  
 Homecare-CONCERN: Building risk models for preventable hospitalizations and  
 emergency department visits in homecare  
 Role: Co-investigator (Subsite PI)  
 Funding: \$769,427

1R01NR018831-01                      Topaz (PI)    2019-2022  
 NINR  
 Improving patient prioritization during hospital-homecare transition: A mixed methods study of a clinical decision support tool.  
 Role: Co-investigator  
 Funding: \$2,019,591

R01 NR016941-01                      Cato/Collins (Co-PI)    2017-2023  
 NINR  
 Communicating Narrative Concerns Entered by RNs (CONCERN)  
 Role: Co-Principal Investigator  
 Funding: \$2,931,733

### Past Support

Pilot Award                                      Cato/ Mullen/Topaz(MPI)    2019-2021  
 Columbia University Data Science institute  
 Data science for better health outcomes: A nursing perspective  
 Role: Co-Principal Investigator  
 Funding:\$100,000

1R43LM013130-01                      Sims (PI)    2020  
 NIH (SBIR Phase 1)  
 Improve medical decision making in emergency medicine  
 Role: Co-investigator (Subsite PI)  
 Funding\$155,520

Pilot Award                                      Cato/ Houghton(MPI)    2020-2021  
 The Mailman School of Public Health Innovation Fund  
 Transgender Cancer: a cells-to-society approach to enhance etiology and improve implementation  
 Role: Co-Principal Investigator  
 Funding:\$10,000

Internal Grant                                      Cato(PI)    2019-2020  
 Columbia University Provost Grant  
 Data Mining of Electronic Patient Data for Transgender Cohort Discovery  
 Role: Principal Investigator  
 Funding:\$20,000

1R01HS023708 -01A1                      Senathirajah (PI)    2017-2020  
 AHRQ  
 Finding the safer way: Novel interaction design approaches to Health IT safety  
 Role: Co-Investigator (Subsite PI)  
 Funding:\$998,000

5R01NR010822                                      Larson (PI)    2014-2016  
 NIH/NINR (Diversity Supplement)  
 Health Information Technology to Reduce Healthcare-Associated Infection (HIT-HAI)

Role: Co-investigator  
Funding:\$89,000

1 R01 HS022961-01 Bakken (PI) 2013-2014  
H NIH/NINR  
Washington Heights/Inwood Informatics Infrastructure for Comparative Effectiveness  
Research (WICER) 4U  
Role: Other Significant Contributor

U01 PS003715-01 Schnall (PI) 2014-2015  
DHHS/CDC  
Informing the Development of Mobile Apps for HIV Prevention, Treatment and Care  
Role: Other Significant Contributor  
Funding: \$303,778

Pilot Award Cato(PI) 2014-2016  
Department of Research and Scholarship Intramural Grant  
Data Mining of Electronic Patient Data for Transgender Cohort Discovery  
Role: Principal Investigator  
Funding: \$10,000

T32 NR007969 Bakken (PI) 2011-2014  
NIH/NINR  
Reducing Health Disparities Through Informatics  
Role: Predoctoral Trainee

R01 NR010823 Saiman (PI) 2007-2013  
NIH/NINR  
Improving Antimicrobial Prescribing Practices in the Neonatal Intensive Care Unit  
Role: Project Coordinator/Analyst

**Pending Funding**

R01 Friedman(PI) 2022-2027  
NIH/DHHS  
The ACUTE (Antenatal Corticosteroid Utilization Timing Enhancement) Project  
Role: Co-Investigator

1 R01 NR020511-01 Cato/Dykes/Rossetti(PI) 2022-2027  
NIH/NINR  
CONCERN Psych (COmmunicating Narrative Concerns Entered by RNs in the  
Inpatient Psychiatric Setting)  
Role: Multi-Investigator

**EDUCATIONAL CONTRIBUTIONS**

**Direct Teaching/Precepting/Supervising**

*Columbia University School of Nursing*

2017-Present N9412- Informatics for Practice – 4 Credits

2021-Present N7150 – Data Science for Better Health Outcomes – 4 Credits



**City University of New York School of Professional Studies**

2011 Lecture series: Information flow in the Hospital and Quality Assurance 101  
 2011-2013 HIT332 Health Informatics, Quality and Performance improvement - 4 Credits

**Philadelphia University of the Arts**

1998-1999 Advanced Web Programming Spring – 4 Credits

**Advising and Mentorship*****Direct supervision***

2021-Present Post-Doctoral Fellow, computational mentoring, Columbia University School of Nursing, PhD student: Rachel Lee

2020-Present Dissertation, Columbia University School of Nursing, PhD student: Brittany Taylor

2020-Present Post-Doctoral Fellow, computational mentoring, Columbia University School of Nursing, PhD student, Jennifer Withall

2018-Present Dissertation mentoring, Columbia School of Nursing, PhD student: Jessica Schwartz.

2018-Present Dissertation mentoring, Texila American University, PhD student: Elizaberth Ekong.

***Advisement***

2020-2021 Masters project, computational advisement, Department of Biomedical Informatics, Vagelos School of Physicians and Surgeons, masters Student: Siva Durga Thotapalli

2019-Present Computational advisement, Department of Biomedical Informatics, Vagelos School of Physicians and Surgeons, PhD Student: Amanda Moy

2019-2020 Masters project, computational advisement, Department of Biomedical Informatics, Vagelos School of Physicians and Surgeons, masters student, Li-heng Fu

2019 - 2020 Computational advisement, Fordham School of Social Work, PhD student, Akanksha Anand

2018 Computational advisement, Harvard University, Extension School, Masters student, Cyd Charisse Villalba

2017 -Present Computational advisement, Post-Doctoral Fellow, Department of Internal Medicine, Brigham Women's Hospital, Min Kang

***Doctoral Thesis Committee –Graduates***

2015 University of Nairobi School of Nursing, Kenya – External

## Dissertation Reviewer

2018 Columbia University School of Nursing De Jacq, Krystyna  
(Chair)

**Community Education**

1. *WHYY The Pulse (NPR affiliate): Air Date: January 17, 2020*  
[New Problems](#)
2. Crain's Health Pulse, 2019, NYP, Columbia tackle dearth of nurse-led research  
(<https://www.craigslist.com/health-pulse/somos-partners-state-health-care-immigrant-children>)

**PUBLICATIONS**

**Peer-Reviewed Research Publications in Print or other Media**  
(Google Scholar H index=16; i10 index=24; Scopus H index=12)

\*Denotes Senior Author .# Denotes student or mentee. ^denotes technology industry partner

1. Norful, A. A., **Cato, K.**, Chang, B. P., Amberson, T., & Castner, J. (2023). Emergency nursing workforce, burnout, and job turnover in the United States: A National Sample Survey analysis. *Journal of Emergency Nursing*.
2. Poghosyan, L., Liu, J., Perloff, J., D'Aunno, T. **Cato, K. D.**, Friedberg, MW, Martsolf, G. (2022). Primary Care Nurse Practitioner Work Environments and Hospitalizations and ED Use among Chronically Ill Medicare Beneficiaries. *Medical Care*.
3. Plemmons, A., Shakya, S., **Cato, K.**, Sadarangani, T., Poghosyan, L., & Timmons, E. (2023). Exploring the Relationship between Nurse Practitioner Full Practice Authority, Nurse Practitioner Workforce Diversity, and Disparate Primary Care Access. *Policy, Politics, & Nursing Practice*, 24(1), 26-35.
4. Holder, H., Aningalan, A. M., Walker, S., **Cato, K.**, & Gannon, B. R. (2023). Feasibility of nasal bridge pressure injury prevention using a protective dressing and the Halyard Fluidshield® N95 mask in a COVID-positive environment. *International Wound Journal*, 20(2), 278-284.
5. Landau, A. Y., Blanchard, A., Atkins, N., Salazar, S., **Cato, K.**, Patton, D. U., & Topaz, M. (2023). Black and Latinx Primary Caregiver Considerations for Developing and Implementing a Machine Learning-Based Model for Detecting Child Abuse and Neglect With Implications for Racial Bias Reduction: Qualitative Interview Study With Primary Caregivers. *JMIR formative research*, 7(1), e40194.
6. Hu, Y., **Cato, K. D.**, Chan, C. W., Dong, J., Gavin, N., Rossetti, S. C., & Chang, B. P. (2023). Use of real-time information to predict future arrivals in the emergency department. *Annals of Emergency Medicine*.

7. Song, J., Chae, S., Bowles, K. H., McDonald, M. V., Barrón, Y., **Cato, K.**, Rossetti, S.C., Hobensack, M., Sridharan, S., Evans, L. and Davoudi, A., Topaz, M. (2022). The identification of clusters of risk factors and their association with hospitalizations or emergency department visits in home health care. *Journal of Advanced Nursing*.
8. Song, J., Ojo, M., Bowles, K. H., McDonald, M. V., **Cato, K.**, Rossetti, S. C., ... & Topaz, M. (2022). Detecting language associated with home healthcare patient's risk for hospitalization and emergency department visit. *Nursing Research*, 71(4), 285-294.
9. Amberson, T., Barnason, S., Bell, S.A., Blansfield, J.S., Burchill, C.N., Castner, J., **Cato, K.**, Chang, B.P., Gillespie, G.L., Horigan, A.E. and Laskowski-Jones, L., 2022. Journal of Emergency Nursing Diversity, Health Justice, and Inclusion Pledge. *Journal of Emergency Nursing*, 48(2), pp.120-122.
10. #Hobensack, M., Levy, D.R., **Cato, K.**, Detmer, D.E., Johnson, K.B., Williamson, J., Murphy, J., Moy, A., Withall, J., Lee, R. and Rossetti, S.C., 2022. 25x 5 Symposium to Reduce Documentation Burden: Report-out and Call for Action. *Applied Clinical Informatics*, 13(02), pp.439-446.
11. Adam, H., Yang, M.Y., **Cato, K.**, Baldini, I., Senteio, C., Celi, L.A., Zeng, J., Singh, M. and Ghassemi, M., 2022. Write It Like You See It: Detectable Differences in Clinical Notes By Race Lead To Differential Model Recommendations. *arXiv preprint arXiv:2205.03931*.
12. Landau, A.Y., Ferrarello, S., Blanchard, A., **Cato, K.**, Atkins, N., Salazar, S., Patton, D.U. and Topaz, M., (2022). Developing machine learning-based models to help identify child abuse and neglect: key ethical challenges and recommended solutions. *Journal of the American Medical Informatics Association*.
13. **Cato, K.** Airan-Javia, S. AMIA CIC 2021 Special Topic Section: A focus on diversity, inclusion, and equity. *Applied Clinical Informatics*. In Press.
14. Song, J., Hobensack, M., Bowles, K.H., McDonald, M.V., **Cato, K.**, Rossetti, S.C., Chae, S., Kennedy, E., Barrón, Y., Sridharan, S. and Topaz, M. (2022). Clinical notes: An untapped opportunity for improving risk prediction for hospitalization and emergency department visit during home health care. *Journal of Biomedical Informatics*, 128, p.104039.
15. Landau, A. Y., Blanchard, A., **Cato, K.**, Atkins, N., Salazar, S., Patton, D. U., & Topaz, M. (2022). Considerations for development of child abuse and neglect phenotype with implications for reduction of racial bias: a qualitative study. *Journal of the American Medical Informatics Association*.
16. #Schwartz, J. M., George, M., Rossetti, S. C., Dykes, P. C., Minshall, S. R., #Lucas, E., & **Cato, K. D.** (2022). Factors Influencing Clinician Trust in

- Predictive Clinical Decision Support Systems for In-Hospital Deterioration: Qualitative Descriptive Study. *JMIR Human Factors*, 9(2), e33960.
17. #Hobensack, M., Ojo, M., Barrón, Y., Bowles, K.H., **Cato, K.**, Chae, S., Kennedy, E., McDonald, M.V., Rossetti, S.C., Song, J. and Sridharan, S., 2022. Documentation of hospitalization risk factors in electronic health records (EHRs): a qualitative study with home healthcare clinicians. *Journal of the American Medical Informatics Association*, 29(5), 805-812.
  18. Douthit, B. J., Walden, R. L., **Cato, K.**, Coviak, C. P., Cruz, C., D'Agostino, F., ... & Jeffery, A. D. (2022). Data Science Trends Relevant to Nursing Practice: A Rapid Review of the 2020 Literature. *Applied clinical informatics*, 13(01), 161-179.
  19. #Hobensack, M., Levy, D.R., **Cato, K.**, Detmer, D.E., Johnson, K.B., Williamson, J., Murphy, J., Moy, A., Withall, J., Lee, R. and Rossetti, S.C.. (2022). 25× 5 Symposium to Reduce Documentation Burden: Report-out and Call for Action. *Applied Clinical Informatics*, 13(02), 439-446.
  20. ^Tiase, V. **Cato, K.** From Artificial Intelligence to Augmented Intelligence: Practical Guidance for Nurses.(2022). *The Online Journal of Issues in Nursing*.
  21. #Hobensack, M., Ojo, M., Barrón, Y., Bowles, K.H., **Cato, K.**, Chae, S., Kennedy, E., McDonald, M.V., Song, J., Sridharan, S., Topaz, M. (2022). Documentation of Hospitalization Risk Factors in EHRs: A Qualitative Study with Home Healthcare Clinicians. *Journal of the American Medical Informatics Association*.
  22. Song, J., Ojo, M., Bowles, K. H., McDonald, M.V., **Cato, K.**, Rossetti, S., Adams, V., Chae, S., Hobensack, M., Kennedy E., Tark, A., Kang, M. J., Woo, K., Barron, Y., Sridharan, S., & Topaz, M. (2021) Detecting Language Associated with Home Healthcare Patient's Risk for Hospitalization and Emergency Department Visit. (*Nursing Research*)
  23. Amberson T, Barnason S, Bell SA, Blansfield JS, Burchill CN, Castner J, **Cato K**, Chang BP, Gillespie GL, Horigan AE, Laskowski-Jones L. (2022). Journal of Emergency Nursing Diversity, Health Justice, and Inclusion Pledge. *Journal of Emergency Nursing*, 48(2), 120-122.
  24. Senathirajah Y, Cho H, Fawcett J, Mondejar KM, **Cato K**, Broadwell P, Yoon S. Application of Natural Language Processing to Learn Insights on the Clinician's Lived Experience of Electronic Health Records. *Stud Health Technol Inform*. 2022 Jan 14;289:81-84. doi: 10.3233/SHTI210864. PubMed PMID: 35062097.
  25. Landau AY, Ferrarello S, Blanchard A, **Cato K**, Atkins N, Salazar S, Patton DU, Topaz M. Developing machine learning-based models to help identify child abuse and neglect: key ethical challenges and recommended solutions. *J Am Med Inform Assoc*. 2022 Jan 13;. doi: 10.1093/jamia/ocab286. [Epub ahead of print] PubMed PMID: 35024859.
  26. Landau AY, Blanchard A, **Cato K**, Atkins N, Salazar S, Patton DU, Topaz M. Considerations for development of child abuse and neglect phenotype with implications for reduction of racial bias: a qualitative study. *J Am Med Inform*

- Assoc. 2022 Jan 12;. doi: 10.1093/jamia/ocab275. [Epub ahead of print] PubMed PMID: 35024857.
27. Zolnoori M, Song J, McDonald MV, Barrón Y, **Cato K**, Sockolow P, Sridharan S, Onorato N, Bowles KH, Topaz M. Exploring Reasons for Delayed Start-of-Care Nursing Visits in Home Health Care: Algorithm Development and Data Science Study. *JMIR Nurs*. 2021 Dec 30;4(4):e31038. doi: 10.2196/31038. PubMed PMID: 34967749.
  28. #Mitha S, Schwartz J, **Cato K**, Woo K, Smaldone A, Topaz M. Natural Language Processing of Nursing Notes: A Systematic Review. *Stud Health Technol Inform*. 2021 Dec 15;284:62-64. doi: 10.3233/SHTI210666. PubMed PMID: 34920472.
  29. \*Rossetti SC, Dykes PC, Knaplund C, Kang MJ, Schnock K, Garcia JP Jr, Fu LH, Chang F, Thai T, Fred M, Korach TZ, Zhou L, Klann JG, Albers D, #Schwartz J, Lowenthal G, Jia H, Liu F, **Cato K**. The Communicating Narrative Concerns Entered by Registered Nurses (CONCERN) Clinical Decision Support Early Warning System: Protocol for a Cluster Randomized Pragmatic Clinical Trial. *JMIR Res Protoc*. 2021 Dec 10;10(12):e30238. doi: 10.2196/30238. PubMed PMID: 34889766; PubMed Central PMCID: PMC8709914.
  30. Wang J, **Cato K**, Conwell Y, Yu F, Heffner K, Caprio TV, Nathan K, Monroe TB, Muench U, Li Y. Pain treatment and functional improvement in home health care: Relationship with dementia. *J Am Geriatr Soc*. 2021 Dec;69(12):3545-3556. doi: 10.1111/jgs.17420. Epub 2021 Aug 21. PubMed PMID: 34418061.
  31. #Moy AJ, #Schwartz JM, Withall J, Lucas E, **Cato KD**, Rosenbloom ST, Johnson K, Murphy J, Detmer DE, Rossetti SC. Clinician and Health Care Leaders' Experiences with-and Perceptions of-COVID-19 Documentation Reduction Policies and Practices. *Appl Clin Inform*. 2021 Oct;12(5):1061-1073. doi: 10.1055/s-0041-1739518. Epub 2021 Nov 24. PubMed PMID: 34820789; PubMed Central PMCID: PMC8612869.
  32. Song J, Zolnoori M, McDonald MV, Barrón Y, **Cato K**, Sockolow P, Sridharan S, Onorato N, Bowles KH, Topaz M. Factors Associated with Timing of the Start-of-Care Nursing Visits in Home Health Care. *J Am Med Dir Assoc*. 2021 Nov;22(11):2358-2365.e3. doi: 10.1016/j.jamda.2021.03.005. Epub 2021 Apr 9. PubMed PMID: 33844990; PubMed Central PMCID: PMC8501154.
  33. **Cato K**. The Accuracy of Medication Administration Data in the Emergency Department: Why Does It Matter?. *J Emerg Nurs*. 2021 Nov;47(6):837-838. doi: 10.1016/j.jen.2021.08.008. PubMed PMID: 34776091.
  34. #Moy AJ, Aaron L, **Cato KD**, #Schwartz JM, #Elias J, Trepp R, Rossetti SC. Characterizing Multitasking and Workflow Fragmentation in Electronic Health Records among Emergency Department Clinicians: Using Time-Motion Data to Understand Documentation Burden. *Appl Clin Inform*. 2021 Oct;12(5):1002-1013. doi: 10.1055/s-0041-1736625. Epub 2021 Oct 27. PubMed PMID: 34706395; PubMed Central PMCID: PMC8550823.

35. \*#Schwartz JM, Moy AJ, Rossetti SC, Elhadad N, **Cato KD**. Response to: Looking for clinician involvement under the wrong lamp post: the need for collaboration measures. *J Am Med Inform Assoc*. 2021 Oct 12;28(11):2543-2544. doi: 10.1093/jamia/ocab177. PubMed PMID: 34498082; PubMed Central PMCID: PMC8510279.
36. #Fu LH, Knaplund C, **Cato K**, Perotte A, Kang MJ, Dykes PC, Albers D, Collins Rossetti S. Utilizing timestamps of longitudinal electronic health record data to classify clinical deterioration events. *J Am Med Inform Assoc*. 2021 Aug 13;28(9):1955-1963. doi: 10.1093/jamia/ocab111. PubMed PMID: 34270710; PubMed Central PMCID: PMC8363809.
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77. Senathirajah, Y., Borycki, E. M., Kushniruk, A., **Cato, K.**, & Wang, J. (2019). Use of Eye-Tracking in Studies of EHR Usability-The Current State: A Scoping Review. *Studies in health technology and informatics*, 264, 1976-1977.
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94. Nirenberg, A., Reame, N. K., **Cato, K. D.**, & Larson, E. L. (2010). Oncology nurses' use of National Comprehensive Cancer Network clinical practice guidelines for chemotherapy-induced and febrile neutropenia. In *Oncology Nursing Forum*. 37(6):765-773.

#### **Reviews, Chapters, Monographs, Editorials**

1. **Cato, K.**, Holskey, M., Evaluation. In :*The Peace Model Evidence-Based Practice Guide for Clinical Nurses*. Nursing Knowledge; 2021
2. Rossetti SC, Yen P-Y, Dykes PC, Schnock K, **Cato K**. Reengineering Approaches for Learning Health Systems: Applications in Nursing Research to Learn from Safety Information Gaps and Workarounds to Overcome Electronic Health Record Silos. In: *Cognitive Informatics*. Springer; 2019:115-148.
3. Bakken, S. **Cato, K**. SNOMED Clinical Terms in: *Encyclopedia of nursing research*, Fitzpatrick JJ. Fourth Edition. Springer Publishing Company; 2017.

#### **INVITED AND/OR PEER-SELECTED PRESENTATIONS**

**Local Presentations**

1. **Cato K**, COVID-19 – a predictive model providing a risk-based approach to improve clinical decision-making in the Emergency Department. 2020. Columbia University COVID Symposium. Podium Presentation. New York, NY
2. **Cato K**. Nursing Informatics in Times of COVID 19: Achievements, Challenges, and New Ideas. 2020. The American Medical Informatics Association COVID Webinar Series. New York, NY
3. **Cato K**, Knaplund C, Rossetti S. Scaling up for Surge Capacity and COVID-19 Patient tracking in the EHR: Leveraging Healthcare Process Modeling. 2020. Columbia University COVID Symposium. Podium Presentation. New York, NY
4. **Collins S, Cato K**. The CONCERN Study: Clinical Decision Support Communication for Risky Patient States. 2019. New York Academy of Medicine Urban Health Informatics Innovation Conference. Podium Presentation. New York, NY.
5. **Cato, K**. Improving patient care using evidence: nurses' critical role. 2019. NewYork-Presbyterian Hospital/Brooklyn Methodist Hospital, Nursing Grand Rounds, New York, NY.
6. **Cato, K**. The CONCERN Study: Analyzing Inpatient Nursing Data to Develop Healthcare Process Models of Clinical Concern. 2019. 55th Annual Isabel Maitland Stewart Conference on Research in Nursing. End-Note Speaker. New York, NY.
7. **Cato, K**. Improving patient care using evidence: nurses' critical role. 2019. NewYork-Presbyterian Hospital/Morgan Stanley Children's Hospital, Nursing Grand Rounds, New York, NY.
8. **Collins S, Cato K**. The CONCERN Study: Clinical Decision Support Communication for Risky Patient States. Artificial Intelligence for Health (AI4Health). 2019. Podium Presentation. New York, NY
9. **Cato, K**. Improving patient care using evidence: nurses' critical role. 2019. NewYork-Presbyterian Hospital/The Allen Hospital, Nursing Grand Rounds, New York, NY.
10. **Cato K**. The CONCERN Study: Using Nursing Data to Predict Patient Deterioration. 2018. Columbia University Data Science Institute, Data Science Day. Podium Presentation. New York, NY.
11. **Cato, K**. Feel the beat: Lessons learned from an early state investigator's path to R01 funding. 2017. Columbia University School of Nursing Graduate Student Brown Bag Seminars. Podium Presentation. New York, NY.
12. **Cato, K**. Improving patient care using evidence: nurses' critical role. 2017. NewYork-Presbyterian Hospital/Hudson Valley Hospital, Nursing Grand Rounds, New York, NY

13. **Cato, K.** Improving patient care using evidence: nurses' critical role. 2016. NewYork-Presbyterian Hospital/Cornell Campus, Nursing Grand Rounds, New York, NY.
14. **Cato, K.** Ethical Considerations in Data science. 2016. Department of Biomedical Informatics, Vagelos School of Physicians and Surgeons, Columbia University Irving Medical Center. Seminar. New York, NY
15. **Cato, K.** Improving patient care using evidence: nurses' critical role. 2016. NewYork-Presbyterian Hospital/Pediatric Emergency Department, Nursing Grand Rounds, New York, NY.
16. **Cato, K.** Improving patient care using evidence: nurses' critical role. 2016. NewYork-Presbyterian Hospital/Pediatric Emergency Department, Nursing Grand Rounds, New York, NY.
17. **Cato, K.** Improving patient care using evidence: nurses' critical role. 2016. NewYork-Presbyterian Hospital/Ambulatory Care Network, Nursing Grand Rounds, New York, NY

### ***Regional Presentations***

18. **Cato, K.** What the CONCERN Study Has Taught Me about Racial Bias in Nursing Workflow. 2021. New England HIMSS 2021 Annual Spring Conference. Podium Presentation. Boston, MA
19. **Cato K,** An academic approach to data sharing. 2019. Nursing Informatics Working Group Sunday Special Event, Annual Meeting American Medical Informatics Association, Podium Presentation. Washington DC
20. **Cato K,** Cohen B, Sun C, Hessels A, Larson E. 2019. Bridging the Academic Practice Divide to Improve Nursing Care and Knowledge, 45th Sigma Theta Tau International, Biennial Convention. Podium Presentation. Washington DC.
21. Bick I, Carter E, **Cato K,** Cohen B, Hessels A, Larson E, Rivera R, Sun C. Academic Practice Partnerships as a Model for Nursing Science. 2019. Eastern Nursing Research Society 31st Annual Scientific Sessions. Panel Presentation. Providence, RI.

### ***National Presentations***

22. **Cato,K.** Harnessing Clinical Nursing Data for Predictive Analytics and Decision Support in the Hospital Setting. Veteran's Administration Nursing Informatics Continuing Education Series. December 2022
23. Schlak, A.E., Liu, J., Poghosyan, L., **Cato, K.** The Association between Nurse Practitioner Race and Ethnicity and Job Outcomes. Accepted for podium presentation at the Academy Health Annual Research Meeting (June 4-7, 2022).

24. Schlak, A.E., Liu, J., Poghosyan, L., **Cato, K.** The Association between Nurse Practitioner Race and Ethnicity and Job Outcomes. Accepted for podium presentation to the Interdisciplinary Research Group on Nursing Issues Pre-Conference (June 4, 2022).  
\*\*Highest ranking abstract  
\*\*Selected for New Investigator Award
25. Choo, E., **Cato, K.**, Gibbons, C. (2021). Gibbons, K. Addressing Disparities in Healthcare. 5th Annual Digital Medicine Conference:NodeHealth.
26. **Cato, K.**, Schultebrucks, K., Chen, J. The Future of Precision Research in Emergency Medicine. 2021. the Stanford Emergency Medicine Innovation Symposium (StEMiX). Panel Presentation. Palo Alto, CA
27. **Cato, K.** 2021. Articulating Judgment Into AI: The CONCERN Study. NINR AI Boot Camp - Clinical Applications. Virtual Meeting.
28. Rossetti, S., Moy, A., Kang, M. Schwartz, J., **Cato K.**, Mixed-Methods Approaches to Understanding, Measuring, and Reducing Clinical Documentation Burden. 2020, Annual Meeting American Medical Informatics Association, Podium Presentation. Virtual Meeting.
29. **Cato K.**, Albers, J., Freeman, R., Hoeksema, L., Womack, D. Jeffery, A. Bench to Bedside: The Power of Nursing Data for Prediction. 2020, Annual Meeting American Medical Informatics Association, Pre-Conference All-Day Workshop. Virtual Meeting.
30. Woo, K., Adams, V., Wilson, P., Fu, L., **Cato, K.**, Rossetti, S. C., McDonald, M., Shang, J., Topaz, M. 2019. Using natural language processing to examine early signs of urinary tract infection in homecare notes. Podium presentation for Annual International Conference on Home Healthcare, Hospice, and Information Technology (H3IT) conference. Seattle, WA.
31. **Cato K.**, Knaplund C, Klann J, Dykes P, Albers D, Kang MJ, Schnock K, Zhou L, Korach T, Collins S. 2019. Signals of Nurse Workarounds in Electronic Medication Administration Record Data. Ignite Talk at AMIA 2019 Informatics Summits. San Francisco, CA.
32. **Cato, K.**, Knaplund C, Klann J, Dykes P, Albers D, Kang MJ, Schnock K, Zhou L, Korach T, Collins S. 2019. Nursing medication administration data quality: assessment for reuse in analytics. AMIA Clinical Informatics Conference, Podium Presentation. Atlanta, GA.
33. Klann JG, Collins S, **Cato K.**, Waitman L., Westra B. 2018. Nursing Documentation and the Clinical Research Informatics Pipeline. American Medical Informatics Association Summit. San Francisco, CA.
34. **Cato K.** The Use of Informatics to Reduce Disparities in Transgender Health. 2017. Annual Meeting American Medical Informatics Association. Podium Presentation. San Francisco, CA.

35. **Cato, K.**, Arcia, A., Creber, R. M. M., Senathirajah, Y., & Yoon, S. 2016. Visualization of Patient-reported Outcomes. Annual Meeting American Medical Informatics Association. Chicago, IL
36. **Cato, K.**, Cohen, B., Befus, M., Larson, EL. 2015. It's raining data! Leveraging health information technology for infection prevention research and surveillance. Annual Meeting of the Association for Professionals in Infection Control. Panel Presentation. Nashville, TN.
37. Dohrn, J., Klopper, H.C., Larson, E., Omoni, G.M., Malata, A., Ferng, Y., Sun, C., **Cato, K.** 2015. Building a Sustainable Clinical Nursing and Midwifery Research Network to Improve Health Outcomes in Southern and Eastern African Countries. Sigma Theta Tau International 26th international Nursing Research Congress. Podium Presentation. San Juan, Puerto Rico.

### ***International Presentations***

38. **Cato, K.** Data Visualization Needs to Support Emergency Response to COVID in A Safety Net Hospital. 2022. Visual and Automated Disease Analytics Graduate Training Program. University of Victoria, Canada
39. **Cato, K.** Modeling Clinician Behavior to Support Clinical Decision Making and Improve Patient Outcomes: The CONCERN Study. Dynamics and Data Assimilation, Physiology and Bioinformatics: Mathematics at the Interface of Theory and Clinical Application. 2022. Banff International Research Station for Mathematical Innovation and Discovery. Banff, Canada
40. **Cato, K.** CONCERN: A paradigm shift in nursing. 2019. Brocher Foundation Workshop: Artificial Intelligence for Nursing: Ethical, Legal, and Social Implications. Podium Presentation. Hermance, Switzerland.
41. Backonja U, Velez O, **Cato K**, Hardiker N. Addressing Health Disparities Through Informatics. 2019. Medinfo. Panel Presentation. Lyon, France.
42. **Cato K.** Nurse and Midwife Researcher Collaboration in Eastern sub-Saharan Africa: A Longitudinal Social Network Analysis. 2017. International Council of Nurses, Congress. Podium Presentation. Barcelona, Spain.
43. **Cato KD**, Bakken S. What Am I Giving Tonight? Information Needs of Nurses Related To Patient Medications Administration While Using a Clinical Information System. 2012. Nursing Informatics 2012: 11th International Congress on Nursing Informatics. Montreal, Canada.

### **Peer-Selected Posters**

#### ***Regional Poster Presentations***

1. **Cato K**, Bakken S. Patients' Self-Reported Desire to Participate in Shared Decision Making. Proc AMIA Annu Fall Symp. 2013. Washington, DC

2. **Cato K**, Vawdrey D, Sheehan B, Graham PL 3rd, Currie LM, Hum RS. An Interface Solution for a CPOE Decision Support Tool for the Neonatal ICU in a Commercial EHR. Proc AMIA Annu Fall Symp. 2010. Washington DC

### ***National Poster Presentations***

3. Lee, R.Y., Rossetti, S.C., **Cato, K.D.** Differences in frequencies of nursing flowsheet documentation by patients' primary language. Poster Presentation AMIA 2022 Annual Symposium; 2022 Nov 5-9; Washington D.C.
4. Taylor, B.N, Collins Rossetti, S., & **Cato, K.D.** (2022). Deterioration Events in Patients With Depression. Poster Presentation AMIA 2022 Annual Symposium; 2022 Nov 5-9; Washington D.C.
5. Song, J., Ojo, M., McDonald, M.V., **Cato, K.**, Rossetti, S., Barron, Y., Sridharan, S., Chae, S., Hobensack, M., Bowles, K. H., & Topaz, M. (2021) Developing a Natural Language Processing Algorithm to Detect Terms Representing Risk of Hospitalization or Emergency Department Visits during Home Health Care (Poster presentation at AMIA 2021 Annual Symposium, San Diego, CA)
6. Dowd J, Fuhrmann K, Liang S, Perlstein L, Quinn M, **Cato K.** Effectiveness of Electronic Fetal Monitoring (EFM) Multimodal Education Program on Obstetric Nurses Competency. American Nurses Association Quality & Innovation Conference. 2019 Orlando, FL
7. Sun, C., **Cato, K.** Bedside Shift Report and Hourly Rounding By Nurses (BedsRN). American Medical Informatics Association.2018. Scottsdale, AZ.
8. Greenway A, Eusini A, Bessey P, Sessler K, **Cato K.** Tied Upon a Wheel of Fire: Distress and Delirium in Critically Ill Burn Patients. Annual Meeting of the American Burn Association. 2017. Chicago, IL.
9. **Cato K.** Predictors of Hispanic Patients' Desire to Participate in Shared Decision Making. Annual Meeting of Society of Medical Decision Making. 2014. Miami
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