

# Nate C. Apathy

Ph.D. Candidate, Health Policy & Management  
Richard M. Fairbanks School of Public Health  
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## Education

### Ph.D., Health Policy & Management

*Predoctoral Fellow, Public & Population Health Informatics*  
Richard M. Fairbanks School of Public Health  
August 2016 – June 2020 (projected)

Dissertation: *Health information exchange use in primary care:  
policy correlates, measures, and changes over time*

Indiana University  
Indianapolis, IN

### B.S., Business Administration (summa cum laude)

Major: Economics  
Minor: Behavioral and Cognitive Neuropsychology

Creighton University, 2011  
Omaha, NE

## Positions and Employment

Department of Health Policy & Management  
Richard M. Fairbanks School of Public Health  
Indiana University, Indianapolis (IUPUI)

August 2016 – Present

T15 Biomedical Informatics & Data Science Trainee (NLM)  
Graduate Research Assistant to *Christopher A. Harle, PhD, MS*

Aug. 2017 – Present  
Aug. 2016 – Present

Cerner Corporation  
Kansas City, MO

July 2011 – April 2016

Program Manager, Southcentral Foundation Innovation Collaborative  
Product Manager, Research Software (i2b2)  
Solution Architect, General Laboratory Software (Cerner PathNet)

Mar. 2015 – Apr. 2016  
Aug. 2013 – Apr. 2016  
Jul. 2011 – Aug. 2013

## Peer-Reviewed Publications

1. **Apathy, NC**; Holmgren, AJ. Opt-in consent policies: potential barriers to hospital health information exchange. *American Journal of Managed Care*. 2020;26(1).
2. Holmgren, AJ; **Apathy, NC**. Hospital adoption of API-enabled patient data access. *Healthcare: The Journal of Delivery Science and Innovation*. 2019;8.
3. Balio, CP; **Apathy, NC**; Danek, R. Health information technology and accountable care organizations: synthesis of the literature and future directions. *eGEMs (Generating Evidence & Methods to improve patient outcomes)*. 2019;7(1):24.
4. **Apathy NC**; Yeager VA. Examining Training Motivations Among Public Health Workers. *Journal of Public Health Management and Practice*. 2019;25(2), Public Health Workforce Interests and Needs Survey 2017: S157–65.

5. Harle, CA; **Apathy, NC**; Cook, RL; Danielson, EC; Dilulio, J; Downs, SM; Hurley, RW; Mamlin, BW; Militello, LG; Anders, S. Information Needs and Requirements for Decision Support in Primary Care: An Analysis of Chronic Pain Care. *AMIA Annual Symposium Proceedings*. 2018 Nov.
6. **Apathy, NC**; Menser, T; Keeran, L; Ford, EW; Harle, CA; Huerta, TR. Trends and gaps in awareness of direct-to-consumer genetic tests from 2007-2014. *American Journal of Preventive Medicine*. 2018 Jun 1;54(6):806-13.
7. Mosa, AS; Yoo, I; **Apathy, NC**; Ko, KJ; Parker, JC. Secondary Use of Clinical Data to Enable Data-Driven Translational Science with Trustworthy Access Management. *Missouri Medicine*. 2015;112(6):443-448.

### Peer-Reviewed Conference Presentations

1. **Apathy, NC**; Roberts, A; Hayden, R; Harle, CA; Vest, JR. Visualizing patient-level risk factors from clinical risk prediction algorithms. *American Medical Informatics Association Clinical Informatics Conference*. May 2020.
2. **Apathy, NC**. Team-based measures of health information exchange. *Kentucky Bluegrass and Indiana Chapters of HIMSS Annual Conference*. April 2020.
3. **Apathy, NC**; Vest, JR; Menachemi, N; Morea, JG; Harle, CA. Differing patterns in frequency of electronic health records documentation among clinicians following the replacement of a legacy EHR system. *American Medical Informatics Association Annual Symposium*. Nov. 2019
4. **Apathy, NC**; Yeager, VA. Training Motivations Among Public Health Workers. *American Public Health Association Annual Meeting*. Nov. 2019.
5. **Apathy, NC**. Association between physician usage of health information exchange and quality measures. *National Library of Medicine Informatics Training Conference*. June 2019
6. **Apathy, NC**; Vest, JR; Menachemi, N; Morea, JG; Harle, CA. Impact of Transitioning from a Homegrown to a Commercial EHR on User Satisfaction. *AcademyHealth Annual Research Meeting*. June 2019
7. **Apathy, NC**; Everson, J. Variations in Primary Care Provider Competition Indices across Commonly Used Data Sources. *AcademyHealth Annual Research Meeting*. June 2019
8. **Apathy, NC**; Harle, CA. Patient consent policies for state health information exchange and level of provider exchange. *American Medical Informatics Association Annual Symposium*. Nov. 2018
9. **Apathy, NC**. Measurement of Health Information Exchange & Interoperability. *National Library of Medicine Informatics Training Conference*. June 2018
10. Balio, CP; **Apathy, NC**; Wiley, K; Holmes, A. The association between usual source of care at a patient-centered medical home and high-expense service utilization. *AcademyHealth Annual Research Meeting*. June 2018
11. Harle, CA; Anders, S; **Apathy, NC**; Cook, RL; Danielson, EC; Dilulio, J; Downs, SM; Hurley, RW; Mamlin, BW; Militello, LG. Designing a user-centered electronic health record decision support system for guideline-concordant opioid prescribing. *AcademyHealth Annual Research Meeting*. June 2018
12. **Apathy, NC**; Vest, JR; Menachemi, N; Putz, JW; Morea, JG; Harle, CA. Differing patterns of satisfaction and perception among clinical and non-clinical users following replacement of a legacy EHR system. *American Medical Informatics Association Annual Symposium*. Nov. 2017
13. **Apathy, NC**; Vest, JR; Menachemi, N; Harle, CA. Changes in user perceptions of their electronic health record following the replacement of a legacy system: a longitudinal analysis. *AcademyHealth Annual Research Meeting*. June 2017
14. Bako, AT; **Apathy, NC**; Vest, JR; Harle, CA. User concerns following replacement of a legacy electronic health record: A longitudinal qualitative study. *AcademyHealth Annual Research Meeting*. June 2017

15. **Apathy, NC**; Balio, CP; Danek, RL. Underrepresentation of health information technology studies in the context of accountable care organizations: Using the HSRProj database. *AcademyHealth Annual Research Meeting*. June 2017
16. **Apathy, NC**; Mosa, AS; & Ko, KJ. Protecting Patient Data and Maintaining Site Autonomy: Managing Project Access in a Multi-Site i2b2 Database. *American Medical Informatics Association Annual Symposium*. Nov. 2014

### Research in Progress

Holmgren, AJ; **Apathy, NC**. Prescription drug monitoring program integration with hospital EHRs is low, especially in high opioid prescribing areas. Under Review at *JAMA Open*.

**Apathy, NC**; Harle, CA; Vest, JR; Morea, JG; Menachemi, N. Physician use of electronic health records on days off. Under Review at *The Journal of General Internal Medicine*.

**Apathy, NC**; Everson, J. Physician participation across performance categories in the first year of MIPS. Under Review at *Health Affairs*.

**Apathy, NC**; Vest, JR; Harle, CA. State consent policies and primary care provider usage of health information exchange.

**Apathy, NC**; Vest, JR; Adler-Milstein, J; Dixon, BE; Blackburn, J; Harle, CA. Measures of team-based use of health information exchange in primary care.

**Apathy, NC**; Vest, JR; Adler-Milstein, J; Dixon, BE; Blackburn, J; Harle, CA. Within-user changes in HIE use patterns over time.

**Apathy, NC**; Finnell, JT; Grannis, S; Embi, P; Comer, AR. Prevalence of serious injuries from electronic scooter use.

Comer, AR; **Apathy, NC**; Finnell, JT; Silverman, R; Grannis, S; Embi, P. Electric Scooters (e-scooters): A Threat to Public Health and Safety. Under Review.

**Apathy, NC**; Harle, CA; Roberts, A; Hayden, R; Vest, JR. Tools for visualizing patient-level risk factors derived from clinical risk prediction models.

### Research Interests

Health Information Technology  
Health Information Exchange

Health IT Policy  
Health IT Use & Quality Measurement

Population Health Informatics  
Health Economics

### Authored Web Applications

<a href="#">Economics Seminar Diversity</a>	RShiny Dashboard w/ ggplot2	v2.0.0 deployed August 2019
<i>Interactive visualizations of invited seminar speakers to examine representation of female and under-represented minority economists at university economics departments</i>		
<a href="#">CHF Risk Prediction Tool (Demo)</a>	RShiny, randomForest, & ggplot2	v1.2.1 deployed March 2019
<i>Interactive visualization of risk scores for CHF at the population level, with option to view individual level risk factors underlying low, rising, or high-risk prediction</i>		
<a href="#">Opioid Prescribing Rate Visualization Tool</a>	RShiny, ggplot2, & leaflet	v2.0.0 deployed August 2018
<i>Interactive mapping visualization of CDC prescribing rates and changes over time by county and state</i>		
EHR Survey Response Visualizer	RShiny & ggplot2	v2.0.0 released Dec 2018
<i>Interactive tool to analyze responses to a user satisfaction survey administered during an electronic health record transition at a large public safety net hospital</i>		

## Book Chapters

Dixon, BE; Rahurkar, S; & **Apathy, NC**. Health Information Exchange. In: Magnuson, JA; Dixon, BE, editors. *Public Health Informatics and Information Systems*, 3<sup>rd</sup> edition. Springer London. Under development, publication 2020.

## Teaching

H320: Health Systems Administration	Guest Lecturer	Fall 2019
H325: Health Information Technology Management & Policy	Instructor ( <i>rating: 4.7/5</i> )	Fall 2018, Fall 2019
E335: Chronic Disease Epidemiology	Guest Lecturer	Spring 2018
H628: Healthcare Information Systems	Teaching Assistant	Spring 2017, Spring 2019

## Editorial Experience

<i>American Journal of Managed Care</i>	Peer Reviewer
International Conference on Information Systems, 2019	Conference Submission Review
AcademyHealth Annual Research Meeting, 2019	Theme Reviewer & Session Chair
<i>Digital Technologies, Data, and Data Science Theme</i>	
Journal of the American Medical Informatics Association (JAMIA)	Assisted in Peer Review
AMIA Annual Symposium	Conference Submission Review
AMIA Informatics Summits	Conference Submission Review

## Leadership & Service

National Research Network Audit Log Measures Workgroup	Spring 2020 – Current
AMIA Annual Symposium, Session Moderator	Fall 2019
Collaborating Across Borders VII Conference, Session Moderator	Fall 2019
Indiana State Department of Health R Training Workshop, Instructor	July 2019
AMIA Policy Response Team, ONC Notices of Proposed Rulemaking	
<i>Draft Federal Health IT Strategic Plan</i>	Spring 2020
<i>21<sup>st</sup> Century Cures, Information Blocking</i>	Spring 2019
NLM Informatics Training Conference, 2018 & 2019	
<i>Student Planning Committee Co-Chair</i>	Nov. 2018 – June 2019
<i>Student Planning Committee Member</i>	Jan. 2018 – June 2018
AcademyHealth Student Competition: Identifying Gaps in HSR, Judge	April 2018
hsR: Using R for Health Services Research, Workshop Instructor	Spring 2018
AcademyHealth Student Chapter at IUPUI, President & Co-Founder	Feb. 2017 – March 2019

## Honors, Awards, and Certificates

Med About Data Hackathon (Haifa, Israel) – Second Place	March 2019
IUPUI University Fellowship	Aug. 2016 – Jul. 2017
Population Health Leadership Development Program	Jan. 2015 – Dec. 2015
Cerner Masters Award	Aug. 2014
Successful Presentations – Advanced Facilitator	Certified May 2014
Bioscience Entrepreneurship Program (Creighton University)	Jan. 2010 – Dec. 2010

## Professional Memberships

American Public Health Association	2019 – Present
American Medical Informatics Association (AMIA)	2013 – Present
AcademyHealth	2016 – Present
Health Information & Management Systems Society (HIMSS)	2016 – Present
Society for Judgment & Decision Making (SJDM)	2016 – 2017

## Press Coverage

Opt-In Health Information Exchange Drive Administrative Burden, [EHRIntelligence.com](#), January 2020

API growing pains. [POLITICO Morning eHealth](#), September 2019

IUPUI PhD student unpacks the impact scooters are having on Indianapolis, [FOX59 Indianapolis](#), April 2019

Researcher's data shows how Indianapolis is using scooters. [IndyStar](#), March 2019

Lyft warns it may never make any money. [Oversharing](#), March 2019