Ray Hylock

Associate Professor

Health Services and Information Management

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ACADEMIC BACKGROUND

Doctor of Philosophy 2013
Informatics (Health Informatics Concentration)
University of Iowa | Iowa City, IA

Master of Science 2012
Informatics (Health Informatics Concentration)
University of Iowa | Iowa City, IA

Bachelor of Science 2007
Business Administration (High Technology Management Concentration) – Magna Cum Laude
California State University, San Marcos | San Marcos, CA

ACADEMIC EXPERIENCE

Associate Professor July 2019-Present
Health Services and Information Management | East Carolina University | Greenville, NC

Assistant Professor July 2013-June 2019
Health Services and Information Management | East Carolina University | Greenville, NC

COURSES TAUGHT

COHE 6430 Fall 2013-2014 & Spring 2016-Present
Database Systems in Health Care (2013-2019)/Health Data Management (2020+)

COHE 6470 Fall 2014-Present
Health Information Privacy and Security | Co-taught with Dr. Susie Harris in the fall of 2014
As of fall 2015, I have assumed full responsibility for this course

COHE 6490 Spring 2014-2015, Fall 2015-2019, & Summer 11 2020
Foundations of Health Information Technologies

COHE 6550 Summer 11 2015 & Spring 2016, 2018-Present
Health Informatics Project Management and Design

HIMA 6060 Fall 2020-Present
Health Informatics

HSMA 4065 Spring 2017
Management of Health Care Operations and Patient Flow | Co-taught with Dr. Xiaoming Zeng
One-time assignment after the instructor left ECU just prior to the start of the semester

PUBH 8463 Fall 2018, 2020
Health Information Systems

OTHER TEACHING ACTIVITIES

Student Advising

Thesis Committee Member Summer 2019-Fall 2019
Jacob Bell, MS in Network Technology, Information Security Concentration

Dissertation Committee Member Fall 2017-Spring 2019
Jessica Goodman, PhD in Medical Family Therapy

Graduate Certificate Program Director Fall 2016-December 2018
Health Care Administration Graduate Certificate Program

Course Creation

COHE 6590 Spring 2020-Present
Created the course based on its course proposal

COHE 6590 Fall 2019-Spring 2020
Designed and proposed the course to meet the new accreditation standards

PUBH 8463 Fall 2018
Created the course based on its course proposal

COHE 6550 Spring-Summer 2015
Created the course (for summer 11) based on its course proposal

COHE 6550 Spring-Fall 2014
Designed and proposed the course as part of the MS in HIIM optimization process

COHE 6470 Summer-Fall 2014
Created the security portion of the course based in part on its course proposal

COHE 6490 Fall 2013-Spring 2014
Created the course based in part on its course proposal

Course Redesign

HIMA 6060 Fall 2020
Complete redesign of the course to comply with new accreditation standards

COHE 6430 Spring 2020
Complete redesign of the course to comply with new accreditation standards
Renamed to: Health Data Management

COHE 6550 Fall 2015-Spring 2016
Redesigned the course from its original summer 11 design to fit a spring format

COHE 6470 Summer-Fall 2015
Complete redesign of the privacy portion of the course (newly assigned)

COHE 6430 Summer-Fall 2013
Complete redesign of the course upon initial assignment

Guest Lectures

HIMA 4153/COHE 6640 Fall 2018-Present
Project Management: Overview and Tools

HSMA 3045 Spring 2018-Present
Data Management and Governance

HIMA 3120 Fall 2014-Present
What is Informatics?

HDFS 8403 Fall 2016
Analyzing Health Care Data: A Brief Database and Data Analytics Example

MPH 6702 Spring 2015 & 2016
Introduction to Databases: An Access Example

COHE 6600 Fall 2014
The Legal Health Record and e-Discovery

Graduate Program Learning Assessments

COHE 6470 Spring 2018-2019
Prepare two (one on privacy and the other on security) IPAR outcome assessment reports for the Master of Science in Health Informatics and Information Management and the Graduate Certificate in Health Informatics

COHE 6550 Spring 2018-2019
Prepare two (one on systems and software requirements analysis leading to a request for proposal and the other on systems and software design) IPAR outcome assessment reports for the Master of Science in Health Informatics and Information Management and the Graduate Certificate in Health Informatics

COHE 6430 Spring 2014-2017
Prepare an IPAR outcome assessment report for the Master of Science in Health Informatics and Information Management and the Graduate Certificate in Health Informatics

Masters Comprehensive Exam Design/Grading

Comprehensive Exam Grading Spring 2016-Present
Grade the privacy, security, and database portions of the Master of Science in Health Informatics and Information Management comprehensive examination – spring, summer, and fall

Comprehensive Exam Design Fall 2015
Designed the privacy, security, and database portions of the Master of Science in Health Informatics and Information Management comprehensive examination

REFEREED ARTICLES

Goodman, J., Lamson, A., **Hylock, R.**, Delbridge, T., & Jensen, J (forthcoming). Emergency Department Patient Subgroups: Development of an Empirical, Theory-Grounded Definition Using Population Health Data and Machine Learning. *Family, Systems, and Health*.

Hylock, R. & Zeng, X. (2019). A Blockchain Framework for Patient-Centered Health Records and Exchange (HealthChain): Evaluation and Proof-of-Concept Study. *Journal of Medical Internet Research*, 21(8), PMID: 31471959.

Hylock, R., Bell, P., Harris, S., Woodward, J., & Campbell, R. (2017). Optimizing the Master of Science Degree in Health Informatics and Information Management – Part 2. *Educational Perspectives in Health Information Management*. Fall.

Hylock, R. & Harris, S. (2017). Healthcare Database Management and HIIM Students: Challenges and Instruction Strategies - Part 2. *Educational Perspectives in Health Information Management*. Summer.

Harris, S. & **Hylock, R.** (2017). Was the Hyperglycemia due to a Bottle of Bad Insulin? *Journal of Case Studies*, 35(1), 91-101.

Hylock, R. & Harris, S. (2016). Healthcare Database Management and HIIM Students: Challenges and Instruction Strategies - Part 1. *Educational Perspectives in Health Information Management*. Spring.

Hylock, R. (2016). Cooperative Heuristics for the Federated View Selection Problem. *International Journal of Emerging Technology and Advanced Engineering*, 6 (4), 80-89.

Hylock, R. (2016). The Federated View Selection Problem. *International Journal of Emerging Technology and Advanced Engineering*, 6 (3), 142-152.

Hylock, R. (2016). UPC: Large-Scale Memory Efficient Java Primitive Collections. *Journal of Software*, 11 (3), 251-271.

Hylock, R. & Currim, F. (2013). A Maintenance Centric Approach to the View Selection Problem. *Information Systems*, 38 (7), 971-987.

Boudreau, R. L., Spengler, R. M., **Hylock, R. H.**, Kusenda, B. J., Davis, H. A., Eichmann, D. A., Davidson, B. L. (equal credit to first two authors) (2013). siSPOTR: a tool for designing highly specific and potent siRNAs for human and mouse. *Nucleic Acids Research*, 41 (1), 1-12.

Lu, D., Street, W. Nick, Currim, F., **Hylock, R.**, & Delaney, C. (2009). A Data Modeling Process for Decomposing Healthcare Patient Data Sets. *Online Journal of Nursing Informatics*, 13 (1), 1-26.

SUBMITTED ARTICLES

Goodman. J., **Hylock, R.**, Lamson, A., Delbridge, T., & Jensen, J. Machine Learning Clustering: A Translational Approach to Emergency Department Utilization. *Health Services Research*.

REFEREED PROCEEDINGS

Full Papers

Hylock, R., Street, W. Nick, Lu, D., & Currim, F. (2008). NursingCareWare: Warehousing for Nursing Care Research and Knowledge Discovery. *3rd INFORMS Workshop on Data Mining and Health Informatics*.

Abstract Only

Ahuja, M., Schappet, J., Lorentzan, R., Wang, Y., **Hylock, R.**, Leslie, K., Davis, H., Knosp, B., Santillan, M., Santillan, D. (2014). Sample and Clinical Information Link (SCI-Link) - Standardized Data Registry Management System. *AMIA Joint Summits on Translational Science Proceedings*.

REFEREED PRESENTATIONS

International

Hylock, R., Street, W. Nick, Lu, D., & Currim, F. (2008, October). NursingCareWare: Warehousing for Nursing Care Research and Knowledge Discovery. *3rd INFORMS Workshop on Data Mining and Health Informatics,* Washington, District of Columbia.

National

Harris, S. & **Hylock, R.** (2015). Uncaptured Diabetes Data, until ICD-10. 2015 *AHIMA Data Summit: Beyond ICD-10*, Greenville, North Carolina.

Hylock, R. (2014). Healthcare Database Management and HIM Students: Challenges and Instruction Techniques. *AHIMA Assembly on Education Summer Symposium* July 2014, Chicago, Illinois.

State

Harris, S. & **Hylock, R.** (2016, May). Diabetes and ICD-10, Improving Data Capture. *NCHIMA 66th Annual Meeting*, Asheville, North Carolina.

NON-REFEREED PRESENTATIONS

Local

Campbell, R., **Hylock, R.**, Kapoor, A., & Zeng, X., (2020, February). Introduction to FHIR. *College of Allied Health Sciences - Brown Bag Series*, Greenville, North Carolina.

Hylock, R. (2019, March). Blockchain + Healthcare = Hype or Hope? *College of Allied Health Sciences - Brown Bag Series* Greenville, North Carolina.

Woodward, J., Zeng, X., & **Hylock, R.** (2016). Impact of alcohol sale regulation on drug abuse - a secondary analysis of national data sets. *ECU Research and Creative Achievement Week*, Greenville, North Carolina.

State

Hylock, R. (2018, February). HealthChain: A Patient-Centered Blockchain Framework. *East Carolina University Technology Showcase.*

Hylock, R. (2018, February). HealthChain: Patient-Centered Health Records and Exchange via Blockchain. *Duke Informatics Research Seminar Series*, Greenville, North Carolina.

Hylock, R. (2016, March). Challenges and Techniques for Querying Healthcare Databases. *NCHIMA Coding Roundtable*, Greenville, North Carolina.

Harris, S. & **Hylock, R.** (2015, November). Uncaptured Diabetes Data, until ICD-10. *Duke Informatics Research Seminar Series*, Greenville, North Carolina.

Hylock, R. (2013, November). Beyond Relational: A Database Architecture for Clinical Data Management. *Duke Informatics Research Seminar Series*, Greenville, North Carolina.

RESEARCH GRANTS

Funded

ENC Health Atlas | Too many to list   **Aug-Dec 2020**
North Carolina 2020 COVID-19 Recovery Act House Bill 1043 (Session Law 2020-4). Co-I (50% effort). Total award: $500,000 from August 2020 through December 2020

BCData360 | Zeng, Z., Toriello, P., **Hylock, R.**, & Kapoor, A.   **2019-2021**
Kate B. Reynolds Charitable Trust: Beaufort County Substance Misuse Data Analytics Project (BCSMDA) – known as BCData360. Co-PI. Total award: $437,491 from January 2019 through December 2021.

VCAN | Scott, E., Swanson, M., Tyndall, D., Jones, L., Bradshaw, D., & **Hylock, R.**   **2016-2017**
Versant Center for the Advancement of Nursing (VCAN) Grant Award: Building a National Research Project for the Advancement of Nursing. Data Architect. Total award: $1,395,646 from January 2016 thru August 2017.

Start-Up | **Hylock, R.**   **2013-2015**
Start-Up Package: A request for startup funds. Principal investigator. Total award: $85,276.98.

Unfunded

NRT | Mitra, S., Bowler, M., Gudivada, V., Kruse, J., Moysey, S., **Hylock, R.**, Liu, H., & Wasklewicz, T.   **2020**
Proposal No:19-0613 - NRT-HDR: De-convolving barriers to data assimilation and communication across graduate STEM disciplines. Type: other. Total requested: $2,831,211.48.

CHNA | Bowler, M., Bowler, J., Jones, K., **Hylock, R.**, & Schoemann, A.   **2017**
Center for Survey Research (CSR) Eastern North Carolina (ENC) Regional Community Health Needs Assessment (CHNA). Type: investigator. Total requested: $804,183.60.

Environmental Tracking | Kearney, G, Jones, K., **Hylock, R.**, & Kapoor, A.   **2017**
North Carolina - Environmental Public Health Tracking. Type: co-investigator. Total requested: $1,416,708.35.

Workforce Training | Zeng, X., **Hylock, R.**, & Brown, A.   **2015**
Information Technology Training for Incumbent Health Care Workforce. Type: co-investigator. Total requested: $112,778.50.

REFEREED DATASETS AND SOFTWARE

[HealthChain Server](#)   **2019**
Proof-of-concept server (i.e., node) implementation for *HealthChain*. Single-node system only for testing the novel components. **Languages**: Java and SQL. **Documentation**: Javadoc. **Lines**: 16,061.

Published in: Hylock, R. & Zeng, X. (2019). [A Blockchain Framework for Patient-Centered Health Records and Exchange (HealthChain): Evaluation and Proof-of-Concept Study](#). *Journal of Medical Internet Research*, 21(8).

[HealthChain Web Client](#)   **2019**
Proof-of-concept client web interface for *HealthChain*. It is a simple JSP-enabled version of the Gentelella Alela template. **Languages**: Java, JSP, JavaScript, HTML, and SQL. **Documentation**: Javadoc. **Lines**: 42,651.

Published in: Hylock, R. & Zeng, X. (2019). [A Blockchain Framework for Patient-Centered Health Records and Exchange (HealthChain): Evaluation and Proof-of-Concept Study](#). *Journal of Medical Internet Research*, 21(8).

Chameleon Hashing Library   2019

Implementation of *public-coin chameleon hashing* (PCCH) for redactable block support in *HealthChain*. **Language**: Java. **Testing**: JUnit. **Documentation**: Javadoc. **Lines**: 2,061 (1,536 project + 525 tests).

Published in: Hylock, R. & Zeng, X. (2019). [A Blockchain Framework for Patient-Centered Health Records and Exchange (HealthChain): Evaluation and Proof-of-Concept Study](#). *Journal of Medical Internet Research*, 21(8).

Proxy Re-Encryption Library   2019

Implementation of the *AFGH proxy re-encryption* scheme with the modifications proposed in *HealthChain*. All twenty-two cryptographic proofs related to the submitted modifications have individual JUnit tests. **Language**: Java. **Testing**: JUnit. **Documentation**: Javadoc. **Lines**: 11,608 (6,488 project + 5,120 tests).

Published in: Hylock, R. & Zeng, X. (2019). [A Blockchain Framework for Patient-Centered Health Records and Exchange (HealthChain): Evaluation and Proof-of-Concept Study](#). *Journal of Medical Internet Research*, 21(8).

Alliance Regional Medical Center (ARMC) Datasets   2017

The datasets provide fabricated information for the fictional hospital Alliance Regional Medical Center (armc). All identifying information (e.g., id's, names, dates, addresses, occupations, etc.) are randomly created. Disease and medication assignments follow distributions and patterns identified in multiple healthcare datasets. Errors and outliers have been introduced to simulate those found in real healthcare environments (e.g., missing and unreasonable values). The data comes in ten varieties (from 10 to 1 million patients) and is compatible with many database management systems. **Language**: SQL. **Size**: 1.75 GB zip.

Published in: Hylock, R. & Harris, S. (2017). [Healthcare Database Management and HIIM Students: Challenges and Instruction Strategies - Part 2](#). *Educational Perspectives in Health Information Management*.

OpenJDK9 sun.misc.Unsafe bulk-memory operation expansion   2016

A customized version of Java (using OpenJDK9) with bulk-memory operation support. The UPC software project comes in two flavors: one based on the publicly available JVM/JDK and the other on this customized JVM/JDK. Testing indicates these enhancements significantly improve performance of `sun.misc.Unsafe`-enabled software, which, in this case, is the UPC software package. **Languages**: Java and C/C++. **Lines added to JDK/JVM**: 5,089.

Published in: Hylock, R. (2016). [UPC: Large-Scale Memory Efficient Java Primitive Collections](#). *Journal of Software*, 11 (3), 251-271.

UPC - High Performance Memory Efficient Java Primitive Collections   2016

Array, list, hash map, hash set, and matrix primitive collections in Java utilizing the `sun.misc.Unsafe` non-public API. It provides $2^{63} - 1$ objects (Java addresses only $2^{31} - 1$ spaces) with a destroy feature (a standard memory reclamation option in high performance computing (HPC) favored languages not supported by Java), and primitive collection support (also not supported by Java apart from arrays). **Language**: Java. **Testing**: Junit. **Documentation**: Javadoc. **Lines**: 649,547 (619,665 project + 29,882 tests).

Published in: Hylock, R. (2016). [UPC: Large-Scale Memory Efficient Java Primitive Collections](#). *Journal of Software*, 11 (3), 251-271.

siSPOTR - siRNA Sequence Probability-of-Off-Targeting Reduction   2013

Project is available as an online service hosted by the [Institute for Clinical and Translational Science at the University of Iowa](#). As of February 2014, the code is available under the Apache License via [GitHub](#).

Published in: Boudreau, R. L., Spengler, R. M., Hylock, R. H., Kusenda, B. J., Davis, H. A., Eichmann, D. A., Davidson, B. L. (equal credit to first two authors) (2013). [siSPOTR: a tool for designing highly specific and potent siRNAs for human and mouse](#). *Nucleic Acids Research*, 41 (1), 1-12.

WORKING PAPERS

Goodman, J., Lamson, A., **Hylock, R.**, Delbridge, T., & Jensen, J. Operationalizing frequent emergency department use: A systematic review.

Goodman, J., Lamson, A., **Hylock, R.**, Delbridge, T., & Jensen, J. Walking Beyond the Straight and Narrow: Emergency Department Utilization Through a Systemic Lens.

Hylock, R., Harris, S., & Baker, E.: *Reducing Hypoglycemia with Continuous Blood Glucose Monitoring System Patient Satisfaction and Training: Case Report*. Target: Health Care Manager.

Hylock, R. & Harris, S.: *OCR Breach Reports – What's Past is Prologue*. Target: Health Care Manager.

Hylock, R., Cellucci, L., & Baker, E.: *eClinicalWorks Fraud – What Would You Have Done?* Target: Journal of Case Studies.

Hylock, R.: *An Analysis of the Personal Grid Health Record Framework*.

Hylock, R. *Beyond Relational: A Database Architecture for Clinical Data Management*.

Hylock, R. & Baker, E.: *An Optimal Off-Target Detection Algorithm with IUPAC and Unbounded Mismatch Support*.

WORKING BOOKS

Hylock, R.: *Database Systems in Health Care*.

MEMBERSHIPS

American Health Information Management Association (AHIMA)	2014-Present
American Medical Informatics Association (AMIA)	2013-Present
Association of University Programs in Health Administration (AUPHA)	2013-Present
Institute for Operations Research and Management Sciences (INFORMS)	2008-2009

SERVICE TO THE UNIVERSITY

Department Assignments

Chair | Personnel Committee	Summer 2019-Present
Chair | Promotion & Tenure Committee	Summer 2019-Present
Chair | Faculty Search Committee: Big Data & Analytics	Spring 2018-Spring 2019
Member | Personnel Committee	Fall 2015-Spring 2019
Member | Faculty Search Committee	Fall 2015-2016
Member | Marketing Committee	Fall 2013-Present
Member | Academic Affairs Committee	Fall 2013-Present
Member | Ad Hoc Master's in HIIM Optimization Committee	Summer 2014-2015

College Assignments

Member | Elections Committee	Spring 2020-Present
Chair | Honors and Awards Committee	Summer 2016- Spring 2020
Member | Research and Scholarly Activities Committee	Fall 2016-Present
Member | Compliance Committee	Fall 2014-Present
Member | Honors and Awards Committee	Fall 2014-2016

University Assignments

Member | SACSOC Workgroup Eight: Quality Enhancement Plan Selection Committee	Fall 2020-Present
Member | Information Resources Coordinating Council	Fall 2020-Present
Ex-officio | Graduate Council – Health Sciences Representative	Fall 2018-Present
Member | MS in Data Science Working Group	Summer 2019-Present
Member | PhD in Data Science Exploratory Working Group	Spring 2018-Present

Member | BS in University Studies Faculty Oversight Committee   Fall 2017-Summer 2020

Member | Parking and Transportation Committee   Fall 2014-2017

Other Institutional Service Activities

Python Introduction   Summer 2018-Summer 2019
Office for Faculty Excellence Summer Research and Statistics Workshop Series

Healthcare Informatics Panelist   Spring 2017
Big Data at ENC & Business of Healthcare Symposium

Graduate Certificate Program Director   2016-2018
Health Care Administration Graduate Certificate Program

Student Group Co-Faculty Advisor   2015-2018
Student Health Information Management Association

SERVICE TO THE PROFESSION

Committee/Task Force/Workgroup

Member | AHIMA CEE: Curriculum Workgroup   2017-2018 (CY)

Member | AHIMA Health Informatics Case Study Task Force   2017 (CY)

Member | AHIMA Graduate Health Informatics Curriculum Task Force   2016-2017 (CY)

Member | AHIMA CEE: Graduate Resource Alliance   2015-2016 (CY)

Article/Manuscript

Reviewer | Journal of Medical Internet Research   2019-Present

Reviewer | International Journal of Environmental Research and Public Health   2019-Present

Reviewer | Journal of Software   2016-Present

Reviewer | Perspectives in Health Information Management   2015-Present

Reviewer | SAGE Open   2016

Reviewer | International Journal of Computational Intelligence Systems   2015

Conference Paper

Reviewer | AMIA Health Informatics Symposium   2017-Present

Reviewer | AMIA Annual Symposium   2016-Present

Reviewer | AMIA Joint Summits on Translational Science   2014-Present

Reviewer | Hawaii International Conference on System Sciences   2013-Present

Textbooks

Technical Reviewer | AHIMA Press   Fall 2020
Introduction to Health Information Technology, Fourth Edition. Complete review of the textbook and instructor materials for completeness, correctness, and currency.

Technical Reviewer | AHIMA Press   Spring 2017
Calculating and Reporting Healthcare Statistics, Fifth Edition. Reviewed all statistical calculations in the textbook and instructor materials.

FACULTY DEVELOPMENT

DE Professional Development

Distance Education Faculty Development Modules   2020
Completed a 70-minute session on "Canvas Training – Getting Started with Canvas" | Greenville, NC
Completed an 80-minute session on "Canvas Training – Assignments, Quizzing" | Greenville, NC

Distance Education Faculty Development Modules   2019
Completed a one-hour session on "LMS Review & Channels in Mediasite" | Greenville, NC

Distance Education Faculty Development Modules   2018
Completed a one-hour session on "New Features in Blackboard and My Mediasite" | Greenville, NC

Distance Education Faculty Development Modules   2017
Completed a one-hour session on "Blackboard Outcomes" | Greenville, NC

Distance Education Faculty Development Modules   2016
Completed a one-hour session on "Tools for Delivering Distance Education" | Greenville, NC

Distance Education Faculty Development Modules   2015
Completed a one-hour session on "Tools for Delivering Distance Education" | Greenville, NC

Teaching with Technology Summer Academy   2014
Completed 30 hours of teaching with technology training to enhance both face-to-face and distance education instruction | Greenville, NC

Distance Education Faculty Development Modules   2014
Completed all six modules | Greenville, NC

Distance Education Faculty Development Modules   2013
Completed all five modules | Greenville, NC

Professional Seminar/Workshops

AMIA 2018 Informatics Educators Forum   2018
Attended a three-day conference on informatics education for the health domain. Workshops and sessions attended focused on the new accreditation standards and techniques for delivering high-quality informatics education in this space. | New Orleans, LA

12th AMC Security & Privacy Conference   2016
Attended a three-day conference on privacy and security issues related to health care. Content learned will be integrated into the courses I teach. | Chapel Hill, NC

Beginning Grant Writers Workshop Series   2015
Completed a five-part (10 hour) series on beginning grant writing sponsored by Research and Graduate Studies, the Graduate School, and the Office for Faculty Excellence | Greenville, NC

Other Professional Development

Records Retention and Management   2020
ECU records retention and management Cornerstone module | Greenville, NC

Information Security Best Practices for ECU Management   2020
ECU information security best practices for ECU management (academic track) Cornerstone module | Greenville, NC

Kronos 7 Manager and SuperAdmin Training   2020
ECU Kronos 7 Manager and SuperAdmin Cornerstone module | Greenville, NC

Conflicts of Interest, External Professional Activities for Pay, and the AIR System   2019
ECU conflicts of interest, external professional activities for pay, and the AIR system training | Greenville, NC

Employee Best Practices in Information Security   2019
ECU employee best practices in information security Cornerstone module | Greenville, NC

ECU Equal Employment Opportunity Compliance and HR Best Practice Training
2018
ECU EEOC and HR Best Practice Training in SHRA/CSS and EHRA Recruitment and Selection – modules 1-3 | Greenville, NC

Institutional Review Board Training
2018
IRB Training – Social/Behavioral. Completed the 12 required modules | Greenville, NC

Human Research: Data or Specimens Only Research: 1 - Basic Course
2017
Completed the Massachusetts Institute of Technology Affiliates Human Research Training | Greenville, NC

Office of Faculty Excellence Statistics/Research Summer Series
2017
Completed 27 hours of statistics and research training | Greenville, NC

Employee Best Practices in Information Security
2017
ECU employee best practices in information security Cornerstone module | Greenville, NC

CommonSpot Beginner Training
2016
Completed a two-hour training session on CommonSpot | Greenville, NC

Institutional Review Board Training
2015
IRB Training – Social/Behavioral | Greenville, NC

Kronos for Exempt Employees
2015
Completed the Kronos training module | Greenville, NC

ECU Equal Employment Opportunity Compliance in EPA Search Processes Training
2015
ECU EEOC in EPA Search Processes 2014 (OED) Training | Greenville, NC

Preventing Discrimination and Sexual Violence
2014
Completed requite training | Greenville, NC

Peer Classroom Observation Training Session
2014
Completed requite training | Greenville, NC

Sedona Training Session
2014
Completed requite training | Greenville, NC

Preventing Workplace Harassment
2013
Completed requite training | Greenville, NC

Preventing Unlawful Discrimination
2013
Completed requite training | Greenville, NC

PRIOR ACADEMIC EXPERIENCE

Research Assistant
January 2010-May 2013
Institute for Clinical and Translational Science | University of Iowa | Iowa City, IA

Instructor
Spring 2011
Management Sciences | University of Iowa | Iowa City, IA

Head Teaching Assistant
Fall 2009
Management Sciences | University of Iowa | Iowa City, IA

Research Assistant
Spring 2009
Management Sciences & College of Nursing | University of Iowa, Iowa City, IA

Research Assistant
Fall 2008-Spring 2009
College of Nursing | University of Iowa | Iowa City, IA

Teaching Assistant
Fall 2008
Management Sciences | University of Iowa | Iowa City, IA

Head Teaching Assistant
Spring 2008
Management Sciences | University of Iowa | Iowa City, IA

Teaching Assistant
Fall 2007
Management Sciences | University of Iowa | Iowa City, IA

Teaching Assistant Fall 2006-Spring 2007

College of Business Administration | California State University, San Marcos | San Marcos, CA

AWARDS

Scholar-Teacher Award 2018

East Carolina University

Dean's Award for Outstanding Performance in Teaching 2016

College of Allied Health Sciences, East Carolina University

Outstanding Student from High Technology Management 2007

College of Business Administration, California State University, San Marcos