Christopher I. Macintosh

CURRICULUM VITAE

# SECTION I

## PERSONAL DATA

Christopher I. Macintosh, PhD, RN
Assistant Professor (Career Line)
University of Utah College of Nursing
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## EDUCATION

### DEGREES

Year Degree Institution Area of Study

2017 Doctor of Philosophy University of Utah Nursing

2017 Graduate Certificate University of Utah Gerontology

2006 Bachelor of Science University of Utah Nursing

1996 Bachelor of Arts University of Utah Chinese

### LICENSURE / CERTIFICATION

Year License / Certification

2006 - present Registered Nurse (RN), Utah License #6256941-3102

## EMPLOYMENT / PROFESSIONAL EXPERIENCE

### ACADEMIC

Year Title Organization

2022 - present Director Nursing Informatics Masters Specialty Track University of Utah College of Nursing
 Salt Lake City, UT

2018 - 2022 Adjunct Assistant Professor University of Utah College of Nursing
 Salt Lake City, UT

2008 - 2014 Teaching Assistant University of Utah College of Nursing
 Salt Lake City, UT

2011 - 2011 Adjunct Faculty Co-Instructor University of Utah
 School of Public Administration
 Salt Lake City, UT

2007 - 2009 Research Assistant University of Utah College of Nursing
 Salt Lake City, UT

### CLINICAL

Year Title Organization

2022 - present Clinical Informatics Analyst - Senior Intermountain Health
 DTS Health Information Technology (HIT) Safety Team West Valley City, UT

2021 - 2022 Interim Team Lead Intermountain Healthcare
 CTIS Terminology and Modeling Team West Valley City, UT

2016 - 2021 Clinical Modeling Engineer - Staff, Solutions Analyst Intermountain Healthcare
 Terminology and Modeling Team, Care Transformation West Valley City, UT

2015 - 2016 Home Health & Hospice RN, Case Manager Midas Creek Home Health & Hospice
 South Jordan, UT

2006 - 2009 Operating Room RN Intermountain Healthcare
 LDS Hospital & Intermountain Medical Center Salt Lake City & Murray, UT

2006 - 2007 Operating Room RN University of Utah Hospital
 Main Hospital & Huntsman Cancer Center Salt Lake City, UT

### NON-NURSING

Year Title Organization

2004 - 2005 Operations Supervisor UPS Mail Innovations
 Salt Lake City, UT

2003 - 2004 Sales Associate Brooks Brothers
 Park City, UT

1996 - 2003 Clerk, 204b (fill-in supervisor) United States Postal Service
 Park City, UT

1993 - 1996 Preloader, HAZMAT first responder United Parcel Service
 Salt Lake City, UT

1993 - 1993 Label match, Pharmacy tech RX America
 Salt Lake City, UT

1991 - 1992 Missionary The Church of Jesus Christ of Latter-Day Saints
 Taipei, Taiwan

1989 - 1990 Computer tech Marketing Edge
 Murray, UT

## HONORS, RECOGNITIONS, & AWARDS

Year Award / Recognition

2010 - 2011 George S. and Delores Doré Eccles Graduate Fellow University of Utah College of Nursing

2009 Echomae and Esther Pritchard Endowed Doctoral Scholarship Fund awardee University of Utah CON

2007 - 2010 Doctoral Fellowship awardee, Doctoral Incentive Package awardee University of Utah College of Nursing

1989 - 1996 National Merit Scholarship University of Utah

## RESEARCH AND SCHOLARLY WORK

### EXTRAMURAL GRANTS / CONTRACTS

### INTRAMURAL GRANTS / CONTRACTS

## PUBLICATIONS & EDITORIAL EXPERIENCE

### BOOKS (OR BOOK CHAPTERS)

### JOURNALS

Macintosh, J. L. B., Jacobs, A. T., Luthy, K. E., Beckstrand, R. L., Robinson, M. S., & Macintosh, C. I. (2023). Parental reports of vaccine information statement usage in Utah. Journal of the American Association of Nurse Practitioners <https://doi.org/10.1097/JXX.0000000000000845>

Luthy, K. E., Anderson, A., Macintosh, J., Beckstrand, R. L., Eden, L. M., Amy, R., & Macintosh, C. I. (2017). A whooping cough education module for WIC clients in Utah. MCN, The American Journal of Maternal/Child Nursing, 42(5), 283-288. <https://doi.org/10.1097/NMC.0000000000000358>

Leighton, K., Ravert, P., Mudra, V., & Macintosh, C. (2015). Updating the simulation effectiveness tool: Item modifications and reevaluation of psychometric properties. Nursing Education Perspectives. 36(5), 317-323. <https://doi.org/10.5480/15-1671>

Merrill, K. C., Sumner, S., Linford, L., Taylor, C., & Macintosh, C. (2014). Impact of universal disinfectant cap implementation on central line–associated bloodstream infections. American Journal of Infection Control, 42(12), 1274-1277. <https://doi.org/10.1016/j.ajic.2014.09.008>

Lassche, M., Al-Qaaydeh, S., Macintosh, C. I., & Black, M. (2013). Identifying changes in comfort and worry among pediatric nursing students following clinical rotations. Journal of Pediatric Nursing, 28(1), 48-54. <http://doi.org/10.1016/j.pedn.2011.12.008>

Al-Qaaydeh, S., Lassche, M., & Macintosh, C. I. (2012). Exploratory factor analysis of the Pediatric Nursing Student Clinical Comfort and Worry Assessment tool. Journal of Pediatric Nursing, 27(5), e39-e43. <http://dx.doi.org/10.1016/j.pedn.2012.05.003>

### MANUSCRIPT & ABSTRACT REVIEWS

2008 - 2012 Qualitative Health Research (QHR) Article Reviewer

### ELECTRONIC MEDIA

### OTHER

## PRESENTATIONS

### PEER-REVIEWED PRESENTATIONS

Lassetter, J. H., Macintosh, C. I., Williams, M., Ray, G., Driessnack, M., & Wisco, J. J. (2016). Psychometric testing of self-efficacy & recall questionnaires for children [Paper presentation]. Western Institute of Nursing 49th Communicating Nursing Research Conference, Portland, OR, United States.

Merrill, K., Mandleco, B., Macintosh, J., Hopkins, B., & Macintosh, C. I. (2013, April 13). Symposium: Innovative methods to create a spirit of inquiry in undergraduate nursing students [Conference presentation]. Western Institute of Nursing 46th Annual Communicating Nursing Research Conference, Anaheim, CA, United States.

### PEER REVIEWED POSTERS

Macintosh, C. I. (2013). Identifying and classifying personal health records research: A systematic review [Poster presentation]. Western Institute of Nursing 46th Annual Communicating Nursing Research Conference, Anaheim, CA, United States.

Macintosh, C. I. (2010). Data management tools for nursing research: Single-user and multi-site solutions [Poster presentation]. Western Institute of Nursing 43rd Annual Communicating Nursing Research Conference, Phoenix, AZ, United States.

Macintosh, C.I., & Guo, J-W. (2009). Advantages and disadvantages of using consumer-oriented database programs for research data [Poster presentation]. Intermountain Evidence-Based Nursing Research Conference: Advancing Nursing through Evidence and Research. Salt Lake City, UT, Utah

Macintosh, C.I. (2009, April). Conference poster: An analysis of the concept of personal health records. Salt Lake City, UT: Western Institute of Nursing 42rd Annual Communicating Nursing Research Conference

Wyckoff, A., Jones, K., Kapsandoy, S., & Macintosh, C. (2008). Mapping nursing program activities to nursing informatics competencies [Poster presentation]. American Medical Informatics Association 2008 Conference, Washington D.C., Untied States.

### INVITED PRESENTATIONS

Macintosh, C.I. (2022, September). Moving from industry to academia [Panelist]. Academic Leaders in Nursing Informatics (ALNI) and Professional Master’s Educators (PMEC) Joint Webinar [Online].

Macintosh, C.I. (2022, May). How to read a research report [PowerPoint]. Intermountain Healthcare, Informatics Education Group, West Valley City, UT.

Macintosh, C.I. (2022, March). Health information technology safety [PowerPoint]. Intermountain Healthcare, Informatics Education Group, West Valley City, UT.

Macintosh, C.I. (2022, January). Informatics and statistics [PowerPoint]. Intermountain Healthcare, Informatics Education Group, West Valley City, UT.

Macintosh, C.I. (2013, March). Quantitative analysis in research, qualitative analysis in research [3 hour undergraduate lecture]. Brigham Young University, Provo, UT.

Macintosh, C.I. (2012, October). Measurement: Reliability and validity, Quantitative analysis in research [3 hour undergraduate lecture]. Brigham Young University, Provo, UT.

Macintosh, C.I. (2012, May). Statistics refresher [1 hour faculty lecture]. Brigham Young University, Provo, UT.

Macintosh, C.I. (2011, March). SciencePower presentation for middle school girls [presentation]. University of Utah College of Nursing, Salt Lake City, UT.

Macintosh, C.I. (2010, October). Selecting dissertation committee members [Moderator for 1 hour panel discussion]. University of Utah College of Nursing, Salt Lake City, UT.

Macintosh, C.I. (2010, February). Adaptation of UTAUT instrument for use with elderly population [Presentation]. University of Utah Department of Biomedical Informatics, Frey Lab, Salt Lake City, UT.

Macintosh, C.I. (2009, March). Mapping concepts in case report forms (CRF) for use with caBIG [Presentation]. University of Utah Department of Biomedical Informatics, Frey Lab, Salt Lake City, UT.

Macintosh, C.I. (2008, October). Use of personal health record (PHR) for managing medication information [Presentation for Hartford Evaluation]. University of Utah College of Nursing, Salt Lake City, UT.

Macintosh, C.I. (2007, May). Using an online wiki for organizing and sharing OR notes [Presentation to OR staff]. LDS Hospital, Salt Lake City, UT.

## PROFESSIONAL ORGANIZATIONS & SERVICE

### COLLEGE OF NURSING COMMITTEES

Year Committee

2023 - present ChatGPT toolkit

2022 - present AACN Essentials Mapping Domain 8 working group

2022 - present Advanced Nursing Practice Committee

2022 - present Master’s Program Committee
 - Committee Chair (2022)

### HEALTH SCIENCES CENTER COMMITTEES

### UNIVERSITY COMMITTEES

Year Committee

2023 - present Curriculum Policy Review Board (CPRB)/Special Fee Review Committee (SFRC) Committee

2022 - present ChatGPT toolkit

### NATIONAL COMMITTEES

Year Committee

2023 - present National Committee on Vital and Health Statistics (NCVHS) Work Group on Timely and Strategic Action to Inform ICD-11 Policy (aka ICD-11 Work Group)
- 03/08/2023 World Health Organization (WHO) Quality and Safety Topic Advisory Group (Q&S TAG) meeting

 - 03/30/2023 NCVHS ICD-11 Workgroup kick-off meeting

### PROFESSIONAL ORGANIZATIONS

Year Organization

2014 - present American Nursing Informatics Association (ANIA)

2013 - 2016 American Statistical Association (ASA)

2010 - 2016 Gerontological Society of America (GSA)

2009 - present Healthcare Information and Management System Society (HIMSS)
 Utah Chapter (UHIMSS)
 - UHIMSS Program Committee (2018 - 2019)
 - Organizational ambassador for Intermountain Healthcare (2018 - 2019)

2009 - 2014 Western Institute of Nursing (WIN)
 - Research conference room monitor (2009)

2009 - 2012 Association of Perioperative Registered Nurses (AORN)

2008 - present American Medical Informatics Association (AMIA)
 - Academic Leaders in Nursing Informatics (ALNI) (2022 - present)
 - Nursing Informatics Working Group (NIWG) student representative, web liaison (2014)

2007 Golden Key International Honor Society

2006 - present Sigma Theta Tau International Honor Society of Nursing Gamma Rho Chapter
 - Awards Committee Member (2009 - 2010)

2004 - 2006 National Student Nurses’ Association (NSNA)

2013 Web of Science ResearcherID: <http://www.researcherid.com/rid/D-3207-2013>

2013 ORCID: <http://orcid.org/0000-0003-4708-6756>

### CONSULTATION AND BOARDS

### OTHER

Year Committee

2009 - 2010 Doctoral student participant on College Council

04/2009 Nursing Informatics Student Representative, University of Utah College of Nursing
 - Helped plan new student orientation
 - Assisted with faculty candidates
 - Helped support new students

02/2008 EMR Go-Live Support, Clinicomp/Landstuhl Regional Medical Center, Landstuhl, Germany

2005 - 2006 Globus Relief, Salt Lake City, UT
 - Created training video for sorting donated medical supplies

## COMMUNITY SERVICE

Year Activity

02/2013 - 04/2013 Time donated to analyze, write results, and consult on study design for nurse practitioner
 Ecuador anemia study

12/2010 Multi-round delphi study participant – Theoretical framework for PHR adoption

## INTERNATIONAL TEACHING AND SERVICE ACTIVITIES

## OTHER

# SECTION II

## CURRENT & PAST AREAS OF TEACHING RESPONSIBILITY

### COURSES TAUGHT OVER PAST 5+ YEARS

Year Course # Title Hours Enrolled Role

2023 Spring NURS 6120 Standards in Biomedical Informatics 2 52 Co-Instructor
 BMI 6120

2023 Spring NURS 6075 Statistics for Health Informatics 3 18 Instructor

2023 Spring NURS 6805 Seminar in Clinical Informatics 1 13 Instructor

2023 Spring NURS 6881 Master’s Practicum and Capstone II 2 9 Co-Instructor

2022 Fall NURS 6802 Clinical Decision Support 3 39 Co-Instructor
 BMI 6300

2022 Fall NURS 6806 Computer Science Fundamentals 3 32 Instructor
 BMI 6017 for Clinicians

2022 Fall NURS 6880 Master’s Practicum and Capstone I 1 9 Co-Instructor

2022 Spring NURS 6075 Statistics for Health Informatics 3 8 Instructor

2021 Fall NURS 6806 Computer Science Fundamentals 3 19 Instructor
 BMI 6017 for Clinicians

2021 Spring NURS 6075 Statistics for Health Informatics 3 11 Instructor

2020 Fall NURS 6806 Computer Science Fundamentals 3 13 Instructor
 BMI 6017 for Clinicians

2020 Spring NURS 6075 Statistics for Health Informatics 3 19 Instructor

2019 Fall NURS 6806 Computer Science Fundamentals 3 9 Instructor
 for Clinicians

2018 Fall NURS 6806 Computer Science Fundamentals 3 13 Instructor
 for Clinicians

### DEVELOPMENT OF NEW COURSES / EXTENSIVE REVISION

Year # Title Hours Action

2022 NURS 6881 Master’s Capstone and Practicum II 2 New Course

2022 NURS 6880 Master’s Capstone and Practicum I 1 New Course

2020 NURS 6806 Computer Science Fundamentals 3 Extensive Revisions
 for Clinicians

2019 NURS 6075 Statistics for Health Informatics 3 New Course

### GRADUATE STUDENTS SUPERVISION

#### MASTER’S THESIS / PROJECT / CAPSTONE / RESIDENCY

Year Student Role

2022 - 2023 Joe Anderson, RN, Nursing Informatics Capstone Advisor
 Workflow and Documentation Improvement Utilizing Existing Software Technologies: A Journey to
 Cancer Hospital Accreditation.

2022 - 2023 Jessica Gomez, RN, Nursing Informatics Capstone Advisor
 Discovery/Design of a Cardiovascular Discharge Tool

2022 - 2023 Kira Lee Reinhardt, RN, Nursing Informatics Capstone Advisor
 Enhancing Documentation in the EHR to Reflect Nursing Workload in Acute Care Settings

2022 - 2023 Christy Rickert, RN, Nursing Informatics Capstone Advisor
 Analysis and Process Development to Group Similar Near Miss Data

2022 - 2023 Stacy Wells, RN, Nursing Informatics Capstone Advisor
 Development and Design of a Genomics User Dashboard

#### DOCTOR OF NURSING PRACTICE SCHOLARLY PROJECT

Year Student Role

2023 Rachel Straight, RN, Organizational Leadership Scholarly Project Statistical Support
 Implementation and Evaluation of an Independent Advanced Practice Provider Inpatient Care Model

2022 - 2023 Alyssa Larson, RN, Family Nurse Practitioner Scholarly Project Advisor
 Depression/Anxiety Screening and Referrals for COVID Clinic Patients