

UNIVERSITY OF WASHINGTON, SCHOOL OF MEDICINE CURRICULUM VITAE**NICHOLAS R. ANDERSON, M.S., Ph.D.****PERSONAL DATA:**

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Biomedical Health Informatics
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EDUCATION:

1991 - 1993 Evergreen State College, Olympia, WA **B.S. Computer Science**
2002 - 2004 Oregon Health & Science University, Portland, OR **M.S. Biomedical Informatics**
2004 - 2007 University of Washington, Seattle, WA **Ph.D. Biomedical Informatics**

RESEARCH TRAINING:

2002 - 2004 **Research Assistant** Vaginal Birth After Cesarean (VBAC) project
Oregon Health & Science University, Department of Medical Informatics and
Clinical Epidemiology. P.I. Karen Eden, Ph.D.

2002 - 2004 **Masters of Science Thesis**
“A Qualitative Assessment of Bioinformatics Tasks, Tools and Workflow Within
an Academic Biological Research Laboratory”. Oregon Health & Science
University, Department of Medical Informatics and Clinical Epidemiology.
Advisor, C. Dubay, Ph.D.

2004 - 2007 **National Library of Medicine Pre-Doctoral Research Fellow**
Dissertation: “Characterizing Experimental Information Management in
Biomedical Research: A Case-Study Approach”
Advisor: Peter Tarczy-Hornoch, MD

POSITIONS HELD:

1994 - 1997 **Software Engineer** - First DataBank Inc. San Bruno, CA
Designed and developed a wireless medical application for the NewtonOS
platform.

1997 - 2000 **Development Manager** - SoftCare Clinical Informatics, Bainbridge Island, WA
Designed, developed and released four separate interoperable consumer health
PalmOS applications

2000 - 2002 **Program Manager** - HealtheTech, Inc. Denver, CO
Managed engineering of the PalmOS and Windows CE platforms for company
flagship consumer health product

2007 – 2009 **Acting Assistant Professor**, Department of Medical Education and Biomedical
Informatics, University of Washington, Seattle, WA

2007 - Present **Associate Director, Biomedical Informatics Core**
Institute of Translational Health Sciences
Support the informatics research aims of the core in facilitating translational
research. University of Washington, Seattle WA

2009 – Present **Assistant Professor**, Department of Medical Education and Biomedical
Informatics, University of Washington, Seattle, WA

HONORS:

1999 PalmOS software of the month, “Flip!” animation engine: www.eurocool.com
 1999 PalmOS software of the year, “DietLog” nutritional management tool (home and health category), ZDNet magazine, www.zdnet.com
 2004 Three year National Library of Medicine Research Training Fellowship

ORGANIZATIONS:

2003 - 2006 American Society for Information Science and Technology (ASIST)
 2001 - Present Association for Computing Machinery (ACM)
 2002 - Present Health Informatics New Zealand (HINZ)
 2002 - Present American Medical Informatics Association (AMIA)
 2003 - Present Health Information Management Systems Society (HIMMS)

TEACHING RESPONSIBILITIES:

2003 Teaching Assistant for Medical Decision Making 536 (OHSU)
 2008 Faculty, Translational Informatics Research Seminar (UW)

MENTORSHIP RESPONSIBILITIES:

2009 – Present Faculty on BHI Student Research Development Forum

EDITORIAL RESPONSIBILITIES:

2005-2007 Editorial Board (student member), Journal of American Medical Informatics Association (JAMIA)
 2005-present Reviewer, Journal of American Medical Informatics (JAMIA)
 2006-present Reviewer, International Journal of Medical Informatics (IJMI)
 2006-present Reviewer, Journal of Web Semantics (JWS)
 2006-present Reviewer, Journal of Biomedical Informatics (JBI)
 2007-present Reviewer, Journal of Medical Decision Making (MDM)
 2008-present Reviewer, AMIA Summit on Translational Bioinformatics Spring 2009

SPECIAL NATIONAL RESPONSIBILITIES:

2007 NIH Clinical Translational Science Award Working Groups – Collaboration Facilitation
 2007 Clinical Translational Science Award Working Groups – User needs
 2007 Clinical Translational Science Award Working Groups – IT/Informatics Synergy
 2008 Clinical Translational Science Award Working Group - Lead - National Data Sharing Framework Project
 2009 Member – National CTSA Informatics Operations Committee

SPECIAL LOCAL RESPONSIBILITIES:

2003 - 2003 Academic Integrity Committee, OHSU Founding student member for Biomedical Informatics program. Contributed to developing formal guidelines and protocols for academic integrity within the graduate program.
 2005 - 2005 Curriculum Committee, University of Washington Student representative on graduate curriculum committee.
 2006 - 2006 Biomedical Informatics Graduate Admissions Committee - Student representative, University of Washington
 2005 - 2007 Graduate and Professional Student Senator, Biomedical Health Informatics, University of Washington
 2006 - 2007 Research Advisory Board Committee, Student member, University of Washington
 2008 - 2009 Biomedical Informatics Graduate Admissions Committee
 2008 - 2009 Biomedical Informatics Public Relations committee (Chair)
 2008 - 2009 NLP faculty Search committee

RESEARCH FUNDING:

Active:

9/1/07 - 8/31/12	Associate Director , Biomedical Informatics Core (50%), “Northwest Institute for Translational Health Science”, NIH NCRR CTSA #1 UL1 RR 025014 Mary L. Disis MD, PI	47,775 K
11/1/08-10/31/10	Principal Investigator –(49%) “Adapting the i2b2 Architecture to Support Cross-Institutional Clinical Translational Research, RFP-08-001	1,375K
11/1/2008-10/31/2009	Co-Investigator (1%) "Epo Neuroprotection of ELBW Infants: Planning Grant" R34 NS061593-01 Sandra Juul, MD, PhD. PI	5K
Pending:		
07/1/10-06/31/13	Principal Investigator – “Methodologies to share de-identified clinical data for population health research” – NIH/NLM R01	750K
06/1/10-05/31/12	Principal Investigator –“ Developing data provenance and stewardship standards, systems and policies to enhance trusted biospecimen sharing and research” PGA Foundation	890K
Completed:		
08/01/08-07/31/09	Principal Investigator – “Developing Policy to Overcome Barriers for Biorepository Data Sharing, ITHS 001	10 K

BIBLIOGRAPHY:**Manuscripts in Refereed Journals and Refereed Conference Proceedings:**

1. **Anderson NR**, Tarczy-Hornoch P, Bumgarner RE. On the Persistence of Supplementary Resources in Biomedical Publications. *BMC Bioinformatics* 7(1):260-267, 2006
2. **Anderson NR**, Ash JS, Tarczy-Hornoch P. A Qualitative Study of the Implementation of a Bioinformatics Tool in a Biological Research Laboratory. *International Journal of Medical Informatics* 76,821-828, 2006
3. **Anderson NR**, Lee ES, Brockenbrough JS, Minie ME, Fuller S, Brinkley J, Tarczy-Hornoch P. An Assessment of the Data Management Needs of Academic Biomedical Researchers. *Journal of the American Informatics Association*, 14(4):478-488, 2007
4. Eden K, Dolan J, Perrn N, Kocaoglu D, **Anderson NR**, Case J, Guise J. Patients were more consistent in prioritizing childbirth preferences using graphic-numeric than verbal formats, *Journal of Clinical Epidemiology*, 2009 Apr;62(4):415-424.e3.
5. Ash JS, **Anderson NR**, Tarczy-Hornoch P. People and Organizational Issues in Clinical and Research Systems Implementation. *Journal of the American Medical Informatics Association* 2008 May-Jun 15(3),283-289
6. Lee ES, **McDonald DW**, **Anderson N**, Tarczy-Hornoch P. Incorporating collaborative concepts into informatics in support of interdisciplinary biomedical research. *International Journal of Medical Informatics*, 2009
7. Bernstam EV, Hersh WR, Johnson SB, Chute CG, Nguyen H, Sim I, Nahm M, Weiner M, Miller P, DiLaura RP, Overcash M, Lehmann HP, Eichmann D, Athey BD, Scheuermann RH, **Anderson N**, Starren JB, Harris PA, Smith JW, Barbour E, Silverstein JS, Krusch DA, Nagarajan R and Becich MJ. Synergies and Distinctions between Computational Disciplines in Biomedical Research: Perspective from the Clinical and Translational Science Award Programs. *Acad Med*, July 2009 84(7)
8. Fullerton, S. M. **Anderson, N. R.** , Guzauskas, G., Freeman, D. Fryer-Edwards, K. Meeting the governance challenges of next generation biorepository research. *Sci. Transl. Med.* **3**, 14cm3 (2010).
9. Ontology Mapping and Data Discovery for the Translational Investigator, Wynden, R, Weiner, M, Sim, I, Gabriel, D, Casale, M, Carini, S, Hastings, S, Ervin, D, Tu, S, Gennari, J, **Anderson, N** Mobed, K, Lakshminarayanan, P, Massary, M, Cucina, R AMIA Clinical Research Informatics Summit 2010, San Francisco

Abstracts:

1. Eden K, **Anderson NR**, Guise J. Measurement of Outcomes Preferences in Health Using Pairwise Comparison, MedInfo, San Francisco CA 2004.
2. Eden K, Dolan J, **Anderson NR**, Rosenberg S, Jimison H, McClelland B, Perrin N. Use of a Numerical Format Assists Patients in Consistently Weighing Risks of Childbirth in a Randomized Trial. SMDM, Philadelphia PA 2005
3. **Anderson NR**. Evaluating the Information Management and Collaboration of "Bench to Bedside" Microarray Research Computing with Qualitative Methods, AMIA Washington DC 2006
4. Brinkley JF, Ach D, Franklin J, **Anderson NR**, Stevens A, Tarczy-Hornoch P Tools for Clinical Trials Management: Handling the Norm and the Outliers, AMIA, Chicago, IL 2007
5. **Anderson, NR**, Fullerton, S.M., Fryer-Edwards, K, Interinstitutional Genetic Databanking Policy Perspective: The United States CTSA Initiative – Governing Biobanks – what are the challenges? European Science Foundation, Oxford, UK, June 2008
6. Guidry, Brinkley, **Anderson**, Tarczy-Hornoch – Concept Mapping to Develop a Framework for Characterizing Electronic Data Capture (EDC) Systems – AMIA, Washington DC 2008
7. **Anderson, NR** Chilana,P, Tarczy-Hornoch, P “Challenges of Implementing Anonymized Cross-Institutional Federated Querying for Clinical Translational Research, CHI 2009 Conference
8. **Anderson**, Fryer-Edwards, Freeman, Fullerton Towards a Policy Framework for Supporting Inter-institutional Biorepository Data Sharing, AMIA Summit on Translational Bioinformatics 2009
9. **Anderson**, NR, Chilana, P, Tarczy-Hornoch, P “Implementing Cross-institutional Clinical Discovery for Population Based Translational Research” – AMIA Spring Congress 2009
10. Guzauskas, G, Fullerton, S, Fryer-Edwards, K, **Anderson, N**, “Meeting the Governance Challenges of Next Generation Biorepository Research”, American Society of Human Genetics, 2009
11. Assessing Data Discovery Needs and Barriers in Clinical Translational Research, Chilana, P.K, Fishman, E., Geraghty, E., Tarczy-Hornoch, P., Wolf, F., **Anderson, N**. AMIA Clinical Research Informatics Summit 2010, San Francisco
12. A wide variety of privacy protection policies: a model to evaluate utility for multi-institutional querying systems", Porwitz,M, Gennari,G, **Anderson,N** – AMIA Clinical Research Informatics Summit 2010, San Francisco

Patents:

- 2001 Co-inventor on US patent # 60/240,185 “SYSTEM AND METHOD OF INTEGRATING CALORIE MANAGEMENT”

LOCAL AND REGIONAL INVITATIONAL LECTURES:

- “Experimental Information Management Issues and Barriers in Biomedical Research”, Public Health Genetics Seminar, University of Washington, Nov 28, 2007
- “Data Sharing in Clinical Research”, Quorum Review IRB Seminar, Seattle, WA, October 3, 2009

NATIONAL AND INTERNATIONAL INVITATIONAL LECTURES:

1. “People and Organizational Issues in Clinical and Research Systems Implementation”, Invited faculty for ½ day Tutorial, November 11, 2007, Fall 2007 AMIA Symposium, Chicago, IL
2. “An Interinstitutional Genetic Databanking Policy Perspective: The United States CTSA Initiative” – Oxford University, Oxford, England, June 26 2008
3. Strategies for Performing Distributed Queries upon Medical Record Data Located in Distinct Healthcare Entities”, Murphy, S, Weber, G, Anderson, N, Hastings, S. AMIA Spring Congress, 2009