

## **Gabriel M. Peterson**

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### **Education:**

B.A., New Mexico State University, New Mexico State University, Spanish, 1995  
B.A., New Mexico State University, New Mexico State University, Chemistry, 1995  
B.S., New Mexico State University, New Mexico State University, Biochemistry, 1995  
M.S., University of Texas at San Antonio, University of Texas at San Antonio,  
Biotechnology, 1999  
Ph.D., University of Missouri-Columbia, University of Missouri-Columbia, Information  
Science, 2006

### **Professional Experience:**

North Carolina Central University, School of Library and Information Science, Assistant  
Professor Appointed: 2007  
2006-2007, Research Assistant, University of Missouri-Columbia, Medicine, School of,  
Health Science Library, Information Services  
2004-2005, Graduate Research Assistant, University of Missouri-Columbia, Information  
Science & Learning Technologies  
2000-2004, National Library of Medicine Predoctoral Fellow, University of Missouri-  
Columbia, Information Science and Learning Technologies  
1999-2000, Research Specialist, University of Missouri-Columbia, Ag, Food & Nat  
Resources, Agronomy  
1996-1999, Teaching Assistant, University of Texas at San Antonio  
1996-1999, Graduate Research Assistant, University of Texas at San Antonio

### **Expertise and Research Interests:**

I am an Assistant Professor at the School of Library and Information Sciences at North  
Carolina Central University in Durham, NC.

#### **Current Research Projects:**

My research focuses on scholarly communication and the use of health sciences &  
biomedical literature. I am particularly interested in the integrity of the scientific record  
and the changes that open access is having on the nature and use of scientific and  
scholarly communication.

Recently, I have been involved with a project called NCCU-Eagles E-health whose purpose  
is to increase eHealth literacy among under-served populations. The work is funded by  
the United Negro College Fund and the National Library of Medicine.

**Previous Research Experience:**

I have been involved in research projects that have explored problems from an array of topics in the fields of information science and informatics. These include studies regarding vocabulary, information retrieval, information behavior, bio-informatics, health informatics, the electronic medical record and academic communication. These endeavors have equipped me with skills in statistics, web administration, and rudimentary abilities with SED, php, Perl and SQL.

Prior to my doctoral studies in Information Science, I worked in a variety of bench-science environments, and have skills in numerous disciplines, including molecular biology, electron microscopy, tissue culture, fermentation science and analytical chemistry.

**Doctoral Research:**

Title:

The effect of correction and republication in the biomedical literature - a bibliometric analysis

J Med Libr Assoc. 2010 Apr;98(2):135-9

Doctoral research presented at:

2005 ALISE Annual Conference

Doctoral Student Poster Session- Honorable mention

**Funding Received:**

National Library of Medicine: BHIRT Fellowship, \$30,000/annum, from Aug 1, 2000 to Jul 31, 2004

North Carolina Central University Office of International Affairs: A comparative eHealth needs and literacy assessment for under-served populations in North Carolina and Puerto Rico, \$5000, from 2010 to 2010

**Publications:**

- Peterson (2010) The Effectiveness of Correction and Republication on the Biomedical Literature, Journal of the Medical Library Association, , Published
- Peterson (2008) , Information Policy Chapter #7 In Shaw (eds), Introduction to Information Science and Technology - First Edition, [http://www.asis.org/wiki/pubs/index.php/Introduction\\_to\\_Information\\_Science\\_and\\_Technology\\_-\\_First\\_E](http://www.asis.org/wiki/pubs/index.php/Introduction_to_Information_Science_and_Technology_-_First_E), asis.org
- D. Swain, G Peterson, L. Smith-Romocki (2008) Disseminating National Library of Medicine Knowledge into Communities: Fighting Health Disparities, American Library Association, American Library Association, American Library Association
- S. Erdelez, G. M. Peterson, M. E. Sievert, and J. W. Hales, An Exploratory Study of the Characteristics of User Studies of the Electronic Medical Record, Medinfo 2004 POSTER, , 8 Aug 2004
- Gabriel M. Peterson MS, J. Wade Davis, K Su, An examination of term evolution upon natural language as a query formation tool for retrieving e-health information on Medline, B/ITE Bulletin of the Special Libraries Association, 21(Jan/Feb 2004), January 2004

- Su KC, Sievert ME, Peterson GM, Searching PubMed to Examine the Effectiveness of Retrieving Relevant Information about Electronic Healthcare/Health Care, Proceedings of Annual Conference of the Medical Library Association, , May 2001
- Ries J, Su KC, Peterson GM, Sievert ME, Patrick TB, Moxley DE., Frequency of Content-Bearing Words in Abstracts and Texts in Articles from Four Medical Journals, MEDINFO 2001, , 2001
- Su K, Ries JE, Peterson GM, Sievert MC, Patrick TB, Moxley DE, Ries LD, Comparing Frequency of Content Bearing Words in Abstracts and Texts in Articles from Four Medical Journals Using Two Stop Word Lists, AMIA 2001 Fall Conference Proceedings, , 2001
- Peterson, E-health literacy - a multidisciplinary case study, ALISE, ALISE
- Peterson, Reducing Health Disparities in Underserved Communities, ASIST
- Gabriel Peterson, Anomalies in open-access biomedical literature: A comparative study, American Society for Information Science and Technology, American Society for Information Science and Technology, In Press
- Gabriel M. Peterson MS, Kuichun Su, MLIS James E. Ries, MS Mary Ellen C. Sievert, PhD, An examination of natural language as a query formation tool for retrieving information on e-health from Pub Med, ASIST 2002 Proceedings(39:):214-219
- Sanda Erdelez PhD, Gabriel Peterson MS, Mary Ellen Sievert PhD, The Characteristics of Electronic Medical Records (EMR) User Studies: An Exploratory Review. Accepted for presentation to MEDINFO 2004
- Sievert, MaryEllen, Budd, John M., Peterson, Gabriel, Su, K, Effects of Published Erratum on Subsequent Publications, 4th International Congress on Peer Review in Biomedical Publication September 15, 2001
- Monga, HK, Patrick TB, Longo DR, Sievert MC, Peterson GM., An Evaluation of the NLM Gateway Using the European Commission Glossary: A Descriptive Study, American Medical Informatics Association Fall Conference, 2001. - POSTER
- Timothy B. Patrick PhD, Gabriel Peterson MS, David Moxley MLS, A Pitfall in Accessing the Genbank Sequence Literature, AMIA 2002 Conference - POSTER
- Springer GK, Ries JE, Guillen A, Spollen WG, Bradshaw PC, Peterson GM., Designing A Gene Sequence Analysis Pipeline to Facilitate Scientific Discovery: A Case Study, IN PROGRESS

### **Honors and Awards Information:**

- 2007, MCMLA Research Award 2007 - Best Research Poster, Mid-Continental Medical Library Association
- 2005, Association for Library and Information Science in Education (ALISE), Annual Conference Doctoral Poster Session - Honorable Mention, A bibliometric analysis
- 2003-2003, Student Paper Award - Honorable Mention, Special Libraries Association
- 2001-2001, ISI Citation Analysis Research Grant, American Society for Information Science and Technology (ASIST), University of Missouri-Columbia
- 2004-2000, NLM BHIRT Pre-doctoral fellowship, National Library of Medicine, University of Missouri-Columbia
- 1993-1993, Aztec Lodge Scholarship, Aztec Lodge, Las Cruces, NM, New Mexico State University
- 1992-1990, NMSU Crimson Scholarship, New Mexico State University

**Membership Information:**

- American Society for Information Science and Technology
- Association for Library and Information Science Education
- Medical Library Association - Mid Atlantic Chapter

**Language Skills:** I have a BA in Spanish, and speak, read, and write the language with fluency. I am keen to utilize this ability in a professional environment.

**Teaching Experience:**

Traditional classroom experience: 3 Face-to-Face classes per semester, 2007-present  
Distance education experience: 3-6 distance classes per year, 2007-present.

Proficient with: BlackBoard, Moodle and other free/open classroom technologies, including Google Apps, Elluminate, video and podcasting.

**Other Expertise:**

NCCU IRB training, Fall 2007

Training in Ethical Conduct of Research  
HIPAA Training June 2003  
IRB Training-Campus June 2003  
IRB Training-Health Sciences June 2003

**Technical Skills:**

Electron Microscopy  
Gene Sequencing  
Fermentation Biology  
Analytical Chemistry

LINUX  
HTML/XML  
php/MySQL  
Access  
SAS/SPSS/Minitab

**Research Relevance:**

High quality health information is an important resource. Unequal access and bad information are two pitfalls to the appropriate use of health sciences literature.

The presence of erroneous information in the biomedical literature may have significant human health impacts; it is imperative that users have the best information when making clinical and research decisions. Maintaining the integrity of the scientific literature is crucial: use & citation of flawed literature can lead to delay, increased costs, propagation of error or the elimination of potentially valid research from the literature. This research evaluates the effectiveness of one mechanism of biblioremediation, the correction and republication of articles. The degree to which one version of a corrected

and republished article pair has become authoritative is evaluated. The degree to which author ignorance of authoritative versions of documents is evaluated as a possible explanation for post-republication citation. Improved understanding will lead to improved information retrieval & delivery systems and thus improved biomedical research and health care.