

## FREDRIC C. GEY

### *Curriculum Vitae*

*Research Interests:* Nuclear Forensics, Information Access,  
Social Science Information Systems, Semantic Mapping  
[gey@berkeley.edu](mailto:gey@berkeley.edu)

### EDUCATION:

**University of California, Berkeley.** Ph.D. in information science, 1993; M.A. in mathematics, 1964. **Harvey Mudd College.** B.S. "with distinction" in mathematics, 1962.

### EXPERIENCE:

#### **University of California (1968-present):**

#### **Institute for the Study of Societal Issues, UC Berkeley (2005-present) Information Scientist**

Principal Investigator for Homeland Security funded research project on Nuclear Forensics as a Digital Library Search Problem (<http://metadata.berkeley.edu/nuclear-forensics>). Prior work on syntaxes for semantic mapping between economic classification systems. Research into multilingual information access for European and East Asian languages Designed prototype geographic visual interfaces to USA statistical information.

**(2007-present)** Guest scientist, Lawrence Berkeley Laboratory, Advanced Computing for Science Department

**(Summer 2007, 2010 JAPAN)** *Visiting Researcher*, National Institute of Informatics, Tokyo

**(Fall 2008, GERMANY)** *Visiting Scholar*, Department of Information Systems, University of Hildesheim, northern Germany.

**(1989-2005):** *Assistant Director, UC DATA (retired June 2005)*

Co-manager of social science and health statistics databases for the UC Berkeley Campus.

#### **Lawrence Berkeley Laboratory (1968-1989):** *Staff Scientist, Computer Science Division*

#### **Bell Laboratories (1964-1967):** *Member of Technical Staff, Analytical Mechanics Department.*

### Selected Publications

- Suttonetal 13 Electra Sutton, Charles Wang, David Weisz, Fredric Gey and Ray Larson, "Information Visualization of Nuclear Decay Chain Libraries," Proceeding of JCDL 2013 Joint Conference on Digital Libraries 2013, July 22-26 , Indianapolis,
- Geyetal 2013 Fredric Gey, Charles Wang, Chloe Reynolds, Electra Sutton and Ray Larson, "Evaluation Metrics for Nuclear Forensics Search," Fifth International Workshop on Evaluation of Information Access (EVIA-2013), Tokyo, June 18, 2013, ISBN indexed proceedings.
- Sutton etal12 Electra Sutton, Chloe Reynolds, Fredric C. Gey, and Ray R. Larson. "Applying Digital Library Technologies to Nuclear Forensics" IN: Panayiotis Zaphiris, George Buchanan, Edie Rasmussen, and Fernando Loizides (Eds.): *Theory and Practice of Digital Libraries, TPD L 2012*, Paphos, Cyprus, September 23-27, 2012. Proceedings (Springer Lecture Notes on Computer Science LNCS 7489), p. 144-149, 2012.
- Gey12 F Gey, "Dynamic Change in Classification Systems: A Preliminary Model for Instance-based Matching," currently available at: <http://metadata.berkeley.edu/gey/publications/gey-dynamic-change-classification-systems-model.pdf>.

- GeKaLa10 F Gey, N Kando and R Larson, "An Evaluation of Geographic and Temporal Search," in *Proceedings of workshop LWA2010 - Lernen, Wissen, Adaptivität. 4.-6. Oktober 2010*, Kassel, Germany (available at <http://www.kde.cs.uni-kassel.de/conf/lwa10/papers/ir7.pdf>)
- GeKaKa09 F Gey, N Kando and J Karlgren, editors, *Proceedings of the SIGIR 2009 Workshop: Information Access in a Multilingual World: Transitioning from Research to Real-World Applications*, Boston, July 23, 2009, 61pp.
- Gey09 F Gey, "Romanization – An Untapped Resource for Out-of-Vocabulary Machine Translation for CLIR," *Proceedings of the SIGIR 2009 Workshop: Information Access in a Multilingual World*, Boston, July 23, 2009, pp 49-51.
- LaGey08 R Larson and F Gey, "Patent Mining: A Baseline Approach," *Proceedings of the 7<sup>th</sup> NTCIR Workshop on Evaluation of Asian Language Information Access Technologies*, ISBN: 978-4-86049-044-7, Tokyo, Japan, Dec 16-19, 2008, pp 325-361.
- BuChGeLa06 M Buckland, A Chen, F Gey & R Larson, 2006. "Search Across Different Media: Numeric Data Sets and Text Files." *Information Technology and Libraries*. December 2006, pp 181-189.
- KiNoChGe 99 Kim, Y, B Norgard, A Chen and F Gey "Using Ordinary Language to Access Metadata of Diverse Types of Information Resources: Trade Classification and Numeric Data" *Proceedings of the 62<sup>nd</sup> Annual Meeting of the American Society for Information Science*, Washington DC, Oct 31-Nov 4, 1999, pp 172-180.

### **Service/Synergistic Activities:**

*External curriculum reviewer of new graduate information technology curriculum, University of Aizu, Japan, 2009. External Masters/PhD dissertation examiner, 2007, University of New South Wales and 2006, Royal Melbourne Institute of Technology, Australia. Minitrack Co-organizer, HICSS (Hawaii Conference on System Sciences), 2000-2007. General Chair of ACM SIGIR'99, the 22<sup>nd</sup> Annual Conference on Research and Development in Information Retrieval, UC Berkeley, August 1999. Conference Review Committees: , SIGIR-2005-2014, 1996, AIRS 2006 (Asian Information Retrieval Systems), Human Language Technologies conferences, HLT-2005&2006, HICSS 2000-2007, CIKM 2002.*

### **Memberships and Awards:**

*Who's Who In America, 2009. Fulbright Senior Specialists Academic Roster, 2008-2013. Life member, IEEE (Institute for Electrical and Electronic Engineers), member since 1969 Association for Computing Machinery, since 1964 – Service Award in 1999 as General Chair of SIGIR 1999, the 22<sup>nd</sup> International Conference on Research and Development in Information Retrieval. International Association for Social Science Information and Technology (IASSIST), since 1990.*