

CURRICULUM VITAE

Eliz Markowitz

I. CONTACT INFORMATION

Home Address

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II. EDUCATION

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|-----------|--------------|--|
| 2014 (IP) | Ph.D. | Health Informatics
The University of Texas Health Science Center—School of Biomedical Informatics |
| 2012 | M.S. | Health Informatics
The University of Texas Health Science Center—School of Biomedical Informatics |
| 2009 | M.S. | Management of Technology
The University of Texas at San Antonio |
| 2006 | B.S. | Computer Science/Studio Art
Trinity University |

III. PROFESSIONAL EXPERIENCE

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|------------------|---|
| 2010-
Present | Research & Development , The Princeton Review <ul style="list-style-type: none">○ Researched current standardized test techniques○ Developed original content for international distribution○ Reviewed and edited publications pre-release |
| 2009-
Present | Research Fellow , Association for Healthcare Quality & Research, The Keck Center <ul style="list-style-type: none">○ Conduct research regarding the tradeoff of systematic and flexible design○ Aided the development of a framework, Systematic Yet Flexible System Analysis (SYFSA), that identifies the optimal flexibility of a system based on task analysis |
| 2009-
Present | Research Associate , Office of the National Coordinator, Strategic Health IT Advanced Research Projects Program: Patient Centered Cognitive Support <ul style="list-style-type: none">○ Created for the User Interface Design of the Medication |

- Reconciliation Application
 - Designed and developed low-, mid-, and high-level prototypes of medication reconciliation applications
 - Conducted tests in order to determine the effectiveness and efficiency of the developed applications
- 2008-2009
 - Biology Instructor**, Gateway to College, San Antonio College
 - Developed the curriculum and coursework for a comprehensive biology course.
 - Instructed college students on general biology
 - Operations Manager**, The Southwest School of Art & Craft
 - Managed six youth art program associates
 - Planned, coordinated, and directed the activities of 400 children and teens and 100 teachers
 - Responsible for managing data and ensuring that all systems perform at an optimal level
 - 2005-2006
 - Manager for Koyote Ranch Software**, Trinity University
 - Managed four teams and aided in both design and development of the Koyote Ranch e-commerce site
 - Responsible for delivering the software to the client by the assigned deadline
 - 2005-
 - Trainer & Instructor**, The Princeton Review
 - Instruct students in both content and standardized test techniques for the PSAT, SAT, ACT, GRE, GMAT, and MCAT
 - Interview potential instructors
 - Develop training and teacher standards
 - Train future instructors throughout the country
 - Manage 100+ previous trainees and provide them with the current best practices to ensure they maintain corporate standards
 - Present
 - System Modeler**, The Center for Secure & Dependable Systems, The University of Idaho
 - Collaborated the Boeing and government agencies to develop an innovative security system
 - Designed a framework for a Multiple-Independent Levels of Security (MILS) system
 - Created standardized policy enforcement graphs in UML for the MILS system
 - 2004
 - Collaborated the Boeing and government agencies to develop an innovative security system
 - Designed a framework for a Multiple-Independent Levels of Security (MILS) system
 - Created standardized policy enforcement graphs in UML for the MILS system

IV. PROFESSIONAL SOCIETIES

AMIA, 2009-Present

Upsilon Pi Epsilon, 2005-Present

National Society for Collegiate Scholars, 2005-Present

Sigma Xi, 2004-Present
Alpha Lambda Delta, 2003-Present

V. GRANTS

Current Grants

1. **E. Markowitz**, Association for Healthcare Research and Quality (AHRQ) Training Program of the W. M. Keck Center for Interdisciplinary Bioscience Training of the Gulf Coast Consortia (AHRQ Grant No. T32 HS017586)
2. **Jiajie Zhang (E. Markowitz, Research Associate)** Patient-Centered Cognitive Support under the Strategic Health IT Advanced Research Projects Program (SHARP) from the Office of the National Coordinator for Health Information Technology. (SHARP Grant No. 10510592)

Completed Grants

1. **E. Markowitz**, Association for Healthcare Research and Quality (AHRQ) Training Program of the W. M. Keck Center for Interdisciplinary Bioscience Training of the Gulf Coast Consortia (AHRQ Grant No. T32 HS017586). 11/1/2010-10/31/2011
2. **E. Markowitz**, Association for Healthcare Research and Quality (AHRQ) Training Program of the W. M. Keck Center for Interdisciplinary Bioscience Training of the Gulf Coast Consortia (AHRQ Grant No. T32 HS017586) 11/1/2009-10/31/2010
3. **E. Markowitz**. The National Science Foundation (NSF) via The Center for Secure and Dependable Systems (CSDS). 06/01/2004-08/15/2004

VI. PUBLICATIONS

- **Markowitz, E.**, Bernstam, E., Herskovic, J., Zhang, J., Shneiderman, B., Plaisant, C., Johnson, T. (April 2011). *Medication Reconciliation: Work Domain Ontology, Prototype Development, and a Predictive Model*. The proceedings of AMIA 2011 Annual Symposium. October, 2011.
- Bozzo Silva P., Bernstam E, **Markowitz E**, Johnson TR, Zhang, J, Herskovic, J. *Automated Medication Reconciliation and Complexity of Care Transitions*. The proceedings of AMIA 2011 Annual Symposium. October, 2011. [Nominated for distinguished paper}}
- Arora S, Plaisant C, Shneiderman B, **Markowitz E**, Bernstam EV, Herskovic J, Zhang J, Johnson TR, et al. Electronic Health Record Interfaces: *Improving Medication Reconciliation*. The Proceedings of the 28th Annual Human Computer Interaction Lab Symposium. 2011.
- **Markowitz, E.**, Zhang J. *Evaluating the Usability of the OpenVista Electronic Health Record EHR*. The proceedings of 2011 International Multi-Conference on Complexity, Informatics and Cybernetics. 2011.

- **Markowitz, E.** (2009). *The Risks of Nano- TiO₂, Self-Cleaning Clothing, and the Necessity for Green Technology*. Unpublished Master's Thesis, The University of Texas at San Antonio, Dept. of Management of Technology.

VII. PRESENTATIONS

Keynotes, Symposia, Panels & Tutorials:

1. **Symposia:** Shniederman B, Bernstam E, Herskovic J, **Markowitz E**, Shriram C, et. al. *Project 4: Cognitive Information Design*. Pre-Amia Symposia 2011. October, 2011.
2. **Symposia:** *Electronic Health Record Interfaces: Improving Medication Reconciliation*. Catherine Plaisant, Ben Shneiderman, Sumit Arora, **Eliz Markowitz**, Ran Liu, Leo Claudino, Sameh Khamis, Ben London, Jay Pujara. The 28th Annual Human Computer Interaction Lab Symposium. The University of Maryland, Baltimore, MD, May, 2011.
3. **Panel:** *Transmagnetic Cranial Stimulation*. **Markowitz E**, Sandra Shirley, Timothy McVey, Matt Kizerian, Serena Xie. The University of Texas at San Antonio Health Science Center, San Antonio, TX, May, 2009.
4. **Tutorial:** *Utilizing Koyote Ranch Software*. John Graham, **Eliz Markowitz**, Matthew Agee. Trinity University, San Antonio, TX, May, 2006.

Conference Presentations

1. **Markowitz E.** *Medication Reconciliation: Work Domain Ontology, Prototype Development, and a Predictive Model*. The proceedings of AMIA 2011 Annual Symposium. October, 2011.
2. **Markowitz E.** *Developing a Framework for Medication Reconciliation*. The 21st Annual AHRQ Annual Research Conference. Houston, TX, October, 2011.
3. **Markowitz E.** *Developing a Framework for Medication Reconciliation*. The 17th Annual NRSA Trainees Research Conference. Seattle, WA, June 11th, 2011.
4. **Markowitz E.** *A Framework for Developing Systematic Yet Flexible Systems*. The 28th Annual Human Computer Interaction Lab Symposium. The University of Maryland, Baltimore, MD, May 24th-27th, 2011.
5. **Markowitz E.** *Evaluating the Usability of the OpenVista Electronic Health Record EHR*. The 2nd International Multi-Conference on Complexity, Informatics and Cybernetics: IMCIC 2011. Orlando, FL, March 27-30th, 2011. [Nominated for distinguished presentation]
6. **Markowitz E.** *Medical Data Visualization: A Review of Patient Data Visualization Tools*. The 20th Keck Research Conference. Houston, TX, October 15-16, 2010.

7. **Markowitz E.** *Developing Patient Education Modules for the Medical Home*. The 16th Annual NRSA Trainees Research Conference. Boston, MA, June 26, 2010.
8. **Markowitz E,** Niu Y. *Creating Standardized Policy Enforcement Graphs with UML*. 2004 Sigma Xi Annual Conference, Montreal, November 12, 2004.

VIII. Teaching

Courses Taught:

San Antonio College

- Gateway to College Program, Integrated Biology and Chemistry

The Princeton Review

- PSAT, SAT, ACT, ISEE, GRE, GMAT, MCAT