

BIOGRAPHICAL SKETCH

NAME LEE, Jaehoon	POSITION TITLE Medical Informaticist Intermountain Healthcare		
eRA COMMONS USER NAME (credential, e.g., agency login) LEEJAEHOON			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Ajou University, Suwon, South Korea	BS	02/2004	Industrial engineering
Ajou University, Suwon, South Korea	PhD	02/2010	Industrial engineering
University of Utah, Salt Lake City, UT	Certificate	02/2014	Biomedical informatics
University of Utah, Salt Lake City, UT	Postdoctoral	05/2014	Biomedical informatics

A. Personal Statement

I am currently a Medical Informaticist at Intermountain Healthcare in Utah, USA. I have been in a postdoctoral training of biomedical informatics at the University of Utah from 2011 to 2014. My academic background is industrial engineering, which aims at optimization of systems and processes using a variety of management science methods. During the postdoctoral training, my interest was to apply industrial engineering approaches to medical informatics to improve patient care in a systematic way, and my expertise lies in (1) the study of tools for massive clinical data visualization; (2) statistical approach to analyze clinical workflow and business processes; and (3) patient-facing family health history and risk assessment. Since 2014, as a medical informaticist I'm responsible for design, implementation, and validation of research and development projects at Homer Warner Center; dashboard development for clinical programs, visualization implementation, order set analysis, and family health history.

B. Positions and Honors

Employment / Experience

2006 - 2010	Software Engineer, Center for interoperable EHR, Seoul, South Korea
2011	Researcher, uEngineSolutions, Seoul, South Korea
2011 - 2014	Postdoctoral Fellow, Dept. of Biomedical Informatics, University of Utah, Salt Lake City, UT
2014 - Present	Medical Informaticist, Intermountain Healthcare, Murray, UT

Honors / Service

2011 - 2012	Knowledge expert, Open R&D knowledge service, National Science & Technology Information Service, South Korea
2012 - Present	Reviewer, American Medical Informatics Association. Annual Fall Symposium
2013	Reviewer, Journal of Medical Internet Research
2012 - Present	Member, American Medical Informatics Association

Award

2008	Award of Distinction, Korean open source S/W contest, Ministry of Knowledge Economics, South Korea
2013	Winner of RootsTech developer challenge, 3rd Rootstech Family History and Technology Conference, Salt Lake City, UT

C. Selected Peer-reviewed Publications

1. **Jaehoon Lee**, Kihoon Yoo, Sooyoon Jee, and Joongsoon Jang, An Agent Based Approach Towards Proactive Statistical Process Control, Proceedings of the 14th Annual International Conference on Industrial Engineering Theory, Applications and Practice, Anaheim, California, October 18-21, 2009
2. Jeongah Kim, Bingu Shim, Suntae Kim, **Jaehoon Lee**, Insook Cho, Yoon Kim, Translation Protégé Knowledge for Executing Clinical Guidelines, 11th International Protégé Conference, Amsterdam, Netherlands, June 23-26, 2009
3. **Jaehoon Lee**, Jeongah Kim, Insook Cho, and Yoon Kim, Integration of Workflow and Rule Engines for Clinical Decision Support Services, Studies in Health Technology and Informatics, Vol. 160 (Pt 2), pp. 811-5, 2010
4. Jihyun Cho, **Jaehoon Lee**, Donggeun Ahn, and Joongsoon Jang, Selection of Six Sigma Key Ingredients (KIs) in Korean Companies, TQM Journal, Vol. 23 Iss: 6, pp.611 – 628, 2010
5. **Jaehoon Lee**, Hyunyoung Kim, Jeongah Kim, Insook Cho, Yoon Kim, Automating Testcase Generation for Computer Interpretable Clinical Guidelines, MIE conference 2011, Oslo, Norway (Poster)
6. **Jaehoon Lee**, Kihoon You, and Joongsoon Jang, Design and Implementation of Agent-based SPC Monitoring System, International Journal of Industrial Engineering Theory, Applications and Practice, 18(8), 404-413, 2011
7. **Jaehoon Lee**, Jinyoung Jang, and Jeongah Kim, ProcessCodi: A Case Study on Social BPM through Integration of SNS, Mind Map, and BPMS, FGIT 2011, Lecture Note on Computer Science, No. 7105, pp. 378-383, 2011
8. **Jaehoon Lee**, Jinyoung Jang, Bingu Shim, Suntae Kim, Jihyun Kim, Hyunyoung Kim, Sanghoon Song, Jeongah Kim, Insook Cho and Yoon Kim, A Workflow based Clinical Decision Support System through Integration of Clinical Workflow and Knowledge Processing, International Journal of Innovative Computing Information and Control, Vol. 4, pp. 1-SI-BPM-05, 2012
9. **Jaehoon Lee**, John R. Holmen, Steve L. Catmull, Susan E. Pollock, Peter J. Haug, Stanley M. Huff, Research-oriented Clinical Data Visualization based on the Analytic Health Repository: A Case study of Intermountain Healthcare, IEEE Vis 2013, Atlanta, GA (poster)
10. **Jaehoon Lee**, Joongsoon Jang, Bursts and Heavy Tails of Execution Time in Business Processes, Production Planning & Control: The Management of Operations, 2013
11. Hyun-Young Kim, Hyeoun-Ae Park, InSook Cho, JeongAh Kim and **JaeHoon Lee**, Encoding and verification of a computer interpretable guideline: a case study of pressure-ulcer management, Health Information Management Journal, 2013
12. **Jaehoon Lee**, Pallavi Ranade-Kharkar, Nathan C. Hulse, Thomas A. Oniki, Grant M. Wood, Jacob S. Tripp, Ning Zhuo, Stanley M. Huff, Data Modeling for Incorporating Consumer-Entered Family Health History Data into the Electronic Health Record, AMIA annual symposium 2012, Chicago, IL (poster)
13. **Jaehoon Lee**, Pallavi Ranade-Kharkar, Nathan C. Hulse, Grant M. Wood, Peter J. Haug, Stanley M. Huff, Analyzing Data Entry Patterns with a Consumer-Facing Family Health History Tool: An Empirical Study, AMIA annual symposium 2013, Washington DC (poster)
14. **Jaehoon Lee**, Nathan C. Hulse, Thomas A. Oniki, Stanley M. Huff, Service Oriented Development of Information Visualization of the Electronic Health Records for Population Data Set, IEEE VIS 2015; VDS symposium, At Chicago, IL

D. Research Support

N/A