

Education

Rutgers University

PhD Computer Science, *Data Abstraction and Analysis using Qualitative Scaling*, 2002

MS Computer Science, 1995

Carnegie-Mellon University

BS Applied Mathematics (Computer Science), 1987

Experience

Assistant Professor of Medicine, 2003 – 2009

“Clinical” (Volunteer) Assistant Professor of Medicine, 2009 – present

Graduate Assistant & Programmer Analyst, 1990 – 2003

University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School

- Development and support of decision analytic & modeling software
- Decision analytic modeling for cost-effectiveness, outcomes research & health policy making
- Decision support systems research, semi-automated markup of clinical practice guidelines, information extraction & knowledge representation, knowledge based construction of decision models
- Invention of a Hypertext Guideline Markup Language (HGML) as the basis of a delivery system for medical guidelines [Conversion of Text to a Hypertext Markup Language. U.S. Patent 7,373,597]

Biostatistics and Decision Support Systems Consultant

– **Health Economics Resource Center, VA Palo Alto Healthcare System, 2009 – present**

Development and adaptation of decision model evaluation software

For the past few decades I've been the principal developer of the *“Decision Maker”* family of modeling software widely used by the international academic Medical Decision Making community

– **Cleveland Clinic, 2008 – present**

Development of *“The Cleveland Clinic Risk Calculator Constructor”*

A novel web-based tool that assists statisticians in creating multi-platform risk calculators

– **Infectious Disease Consultants PC, 2007 – present**

Statistical analysis and classifier design to improve testing for Lyme Disease through the application of partial-ROC regression optimization methods

– **Johns Hopkins School of Public Health,**

The Global Alliance for Vaccines and Immunization, 2007 – 2009
and the World Health Organization, 2009

Development & support of *“The Interactive Pneumococcal Policy Model”*

A web-browser-based interface for a dynamic cost-effectiveness model for vaccine policy decision-making

– **Center for Clinical Health Policy Research, Duke University, 1997 – 2001**

Developed a system for the representation & evaluation of Markov simulation models within a web-based architecture, applied to the comparison of stroke prevention strategies

Graduate Assistant 1987 – 1990, 1998 – 2001

Rutgers University

- PhD research in exploratory data analysis and dimensionality reduction techniques
- Created a computer configuration expert system for the Concurrent Computer Corporation

Operating Systems Programmer, Summers 1983 – 1985

Burroughs Corporation

Computer Operator, 1979 – 1987

Carnegie-Mellon University, Rutgers University, & New Jersey Educational Computer Network

Kattan, MW, Yu C, Wells BJ, Hagerty CG.

Web-based Prediction Model Deployment Application. *The 31st Annual Meeting of the Society for Medical Decision Making (October 18-21, Hollywood, CA, 2009), Medical Decision Making 2010; in press.*

Hagerty CG, Sonnenberg FA, Knoll M, Levine O, Sinha A.

Decision Support for the Developing World: A Portable Health Policy Model for Pneumococcal Conjugate Vaccination. *The 30th Annual Meeting of the Society for Medical Decision Making; 2008 (Philadelphia, PA). Medical Decision Making 2009; 29 (1): E44.*

Hagerty CG.

Stochastic Medical Decision Making. (Kattan MW, Ed.) *Encyclopedia of Medical Decision Making. Thousand Oaks, CA: Sage Publications. August 2009.*

Hagerty CG, Sonnenberg FA, Pickens DS, Kulikowski CA.

Conversion of Text to a Hypertext Markup Language. U.S. Patent 7,373,597, Issued May, 2008.

Hagerty CG, Sonnenberg FA.

A Modular Open-Format Decision Model Representation and Presentation Methodology. *The 29th Annual Meeting of the Society for Medical Decision Making; 2007 (Pittsburgh, PA). Medical Decision Making 2008; 28: E32.*

Hagerty CG, Pickens DS, Chang J, Kulikowski CA, Sonnenberg FA.

Prediction in Annotation Based Guideline Encoding. *Proceedings of the American Medical Informatics Association (AMIA) Symposium (Washington, DC). 2006;314-318.*

Hagerty CG, Sanders GD, Sonnenberg FA.

Elephant Nodes Save The Day: More Efficient Cost Effectiveness Evaluation Of Strategies Involving Embedded Decisions. *The 27th Annual Meeting of the Society for Medical Decision Making; 2005 (San Francisco, CA). Medical Decision Making 2006; 26: E54.*

Sonnenberg FA, Hagerty CG.

Computer-Interpretable Clinical Practice Guidelines: Where are we and where are we going? (Haux R and Kulikowski C, Eds.) *Yearbook of Medical Informatics 2006. Methods of Informatics in Medicine 2006; 45 Suppl 1:145-158.*

Hagerty CG, Chang J, Pickens DS, Kulikowski CA, and Sonnenberg FA.

Semi-Automated Encoding of Guidelines. *Medinfo 2004. Proceedings of the 11th World Congress on Medical Informatics; 2004 (San Francisco, CA). Amsterdam: IOS Press; 2004: 1625.*

Kulikowski CA, Hagerty CG, Pickens D, Sonnenberg F.

Intelligent Systems for Clinical Guidelines. (Adlassnig KP, Ed.) *Proceedings of the EUNITE Workshop on Intelligent Systems for Patient Care; 2001 (Vienna). 2001;19-25.*

Hagerty CG, Pickens D, Kulikowski CA, and Sonnenberg FA.

HGML: A Hypertext Guideline Markup Language. *Proceedings of the AMIA Symposium; 2000;325-329.*

Sanders GD, Hagerty CG, Sonnenberg FA, Hlatky MA, Owens DK.

Distributed Dynamic Decision Support using a Web-based Interface for Prevention of Sudden Cardiac Death. *Medical Decision Making 19, 1999;19(2):157-166.*

Sonnenberg FA, Hagerty CG, and Kulikowski CA.

An Architecture for Knowledge-based Construction of Decision Models. *Medical Decision Making, 1994;14(1):27-39.*

Hagerty CG, Kulikowski CA, Muchnik I, and Kim S-H.

Two Indices Can Approximate Four Hundred and Two Amino Acid Properties. *Proceedings IEEE International Symposium on Intelligent Control/Intelligent Systems and Semiotics, 1999;365-369.*

Hagerty CG, Zimmerman DE, and Kulikowski CA.

ACONS: A System of Distributed Constraint Satisfaction for Configuration Tasks. in Houstis, E.N. and Rice, J.R., ed., *Artificial Intelligence, Expert Systems and Symbolic Computing*, North-Holland, Elsevier Science Publishers, Amsterdam, The Netherlands, 1992: 408-415.