

# Alberto Maria Segre

*Curriculum Vitae*

## Address

Department of Computer Science  
14D MacLean Hall  
The University of Iowa  
Iowa City, IA 52242-1419

Telephone: (319) 335-1713  
Fax: (319) 335-3624  
Email: [alberto-segre@uiowa.edu](mailto:alberto-segre@uiowa.edu)  
WWW: <http://www.cs.uiowa.edu/~segre>

Date of Birth: April 20, 1957  
Place of Birth: Madison, Wisconsin (USA)  
Citizenship: United States of America

## Education

B.S.	University of Illinois at Urbana-Champaign	1980	Computer Engineering ( <i>Honors</i> )
A.B.	University of Illinois at Urbana-Champaign	1980	LAS/Music Theory ( <i>Distinction</i> )
M.S.	University of Illinois at Urbana-Champaign	1983	Electrical Engineering
Ph.D.	University of Illinois at Urbana-Champaign	1987	Electrical Engineering

## Awards and Honors

*Phi Beta Kappa, Phi Kappa Phi.*  
Fulbright Scholar, 1980 – 1981.  
Caterpillar Corporation Graduate Fellowship, 1986 – 1987.  
Outstanding Educator, Merrill Presidential Scholars Program, Cornell University, 1993.  
Faculty Scholar, The University of Iowa, 1998 – 2001.  
Henry B. Tippie Research Fellow, The University of Iowa, 2001 – 2003.  
Fellow, CIC Academic Leadership Program, The University of Iowa, 2006 – 2007.  
Outstanding Mentor Award, Graduate College, The University of Iowa, 2006.  
Gerard P. Weeg Faculty Scholar in Informatics, The University of Iowa, 2008 – present.

## Experience

Undergraduate Research Assistant, Computer Music Studio, University of Illinois at Urbana-Champaign, August 1978 – July 1980.  
Visiting Researcher (Fulbright Scholar), Istituto di Cibernetica, Università degli Studi di Milano (Milan, Italy), August 1980 – July 1981.  
Graduate Research Assistant, Computer-Based Education Research Laboratory, University of Illinois at Urbana-Champaign, August 1981 – July 1982.

Graduate Teaching Assistant, Department of Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, January 1985 – May 1985.

Graduate Research Assistant, Artificial Intelligence Research Group, Coordinated Science Laboratory, University of Illinois at Urbana-Champaign, August 1982 – December 1986.

Assistant Professor, Department of Computer Science, Cornell University, January 1987 – July 1994.

Associate Professor, Department of Management Sciences, Department of Computer Science, and Program in Applied Mathematical and Computational Sciences, The University of Iowa, August 1994 – August 2001.

Visiting Professor, Scuola Matematica Interuniversitaria, Consiglio Nazionale delle Ricerche, Università di Perugia (Perugia, Italy), July 1997 – August 1997, July 1999 – August 1999.

Associate Professor (Courtesy), Organization, Systems, and Community Health Program, College of Nursing, The University of Iowa, August 1999 – August 2001.

Visiting Professor, Istituto di Matematica Computazionale, Consiglio Nazionale delle Ricerche (Pisa, Italy), September 1999 – July 2000.

Professor, Department of Management Sciences, Department of Computer Science, and Program in Applied Mathematical and Computational Sciences, The University of Iowa, August 2001 – May 2003.

Professor (Courtesy), Systems and Practice Program (was previously Organization, Systems, and Community Health Program), College of Nursing, The University of Iowa, August 2001 – 2007.

Professor and Associate Chair, Department of Computer Science and Professor, Program in Applied Mathematical and Computational Sciences, The University of Iowa, May 2003 – July 2010.

Professor, Interdisciplinary Genetics Graduate Program, The University of Iowa, July 2004 – present.

Professor, Program in Public Health Genetics, College of Public Health, The University of Iowa, May 2003 – July 2007 (program terminated).

Associate Director, Center for Statistical Genetics Research, College of Public Health, The University of Iowa, May 2003 – July 2007 (center moved to The Research Institute at Nationwide Children's Hospital and the Ohio State University).

Adjunct Professor, Battelle Center for Mathematical Medicine The Research Institute at Nationwide Children's Hospital, January 2007 – December 2013.

Professor and Chair, Department of Computer Science and Professor, Program in Applied Mathematical and Computational Sciences, The University of Iowa, August 2010 – present.

Co-director, The Innovation Laboratory, Signal Center for Healthcare Innovation, University of Iowa Health Ventures, January 2016 – March 2018.

Associate Director, Mobile Technology Laboratory, Institute for Clinical and Translational Science, The University of Iowa, September 2018 – present.

## **Service Activities**

### *University*

Member, Committee to Establish a Graduate Minor in Cognitive Studies, Cornell University (Spring 1987).

Member, *SuperQuest High School Supercomputing Competition* Selection Committee, Cornell University/National Science Foundation Center for Theory and Simulation in Science and Engineering (Spring 1993).

Member, Advanced Research Computing Services Advisory Committee, Information Technology Services, The University of Iowa (1994 – 1999, 2000 – 2001).

Chair, Advanced Research Computing Services Advisory Committee, Information Technology Services, The University of Iowa (1998 – 1999, 2000 – 2001).

Member, Committee to Revise the Graduate Subtrack in Software Engineering, Department of Electrical Engineering and Department of Computer Science, The University of Iowa (1995 – 1996).

Member, *Software@Iowa* Planning Committee, College of Engineering, College of Liberal Arts and College of Business Administration, The University of Iowa (1997 – 1998).

Member, Interdisciplinary Programs Strategic Planning Committee, Office of the Provost, The University of Iowa (1998 – 1999).

Member, Committee to Establish a Certificate in Health Informatics, Graduate College, The University of Iowa (1997 – 1998).

Member, Health Informatics Core Steering Committee, Graduate College, The University of Iowa (1998 – 2005).

Member, Informatics Study Committee, Office of the Vice President for Research, The University of Iowa (2000 – 2001).

Member, Faculty Scholar Award Selection Committee, Office of the Provost, The University of Iowa (2001 – 2002, 2003 – 2004, 2005 – 2006).

Member, Advisory Committee in the Physical and Mathematical Sciences, Office of the Vice President for Research, The University of Iowa (2001 – 2008).

Convener, Advisory Committee in the Physical and Mathematical Sciences, Office of the Vice President for Research, The University of Iowa (2004 – 2006).

Member, Advisory Committee for the Carver Scientific Research Initiative Program, Office of the Vice President for Research, The University of Iowa (2002).

Convener, Advisory Committee for the Carver Scientific Research Initiative Program, Office of the Vice President for Research, The University of Iowa (2004).

Member, Informatics Steering Committee, Office of the Vice President for Research and the Dean of the Graduate College, The University of Iowa (2001 – 2003).

CoChair, Informatics Steering Committee, Office of the Vice President for Research and the Dean of the Graduate College, The University of Iowa (2003 – 2005).

Member, Academic Technology Advisory Council, Information Technology Services, The University of Iowa (2002 – 2004).

Member, *Ad Hoc* NIH Research Misconduct Investigation Committee, Office of the Vice President for Research, The University of Iowa (2004 – 2005).

Member, Project MAUI University Advisor Core Group, Information Technology Services, The University of Iowa (2007 – 2009).

Member, Research Council, Office of the Vice President for Research, The University of Iowa (2009 – 2015, 2016 – 2022).

Chair, Research Council, Office of the Vice President for Research, The University of Iowa (2011 – 2012, 2018 – 2019, 2019 – 2020).

Member, Task Force on Graduate Education, Office of the Provost, The University of Iowa (2009 – 2010).

Member, Early Intervention Committee, Office of the Registrar, The University of Iowa (2009 – 2011).

Member, Search Committee for the Director of Retention, Office of the Provost, The University of Iowa (2010).

Member, Aging Mind and Brain Cluster Steering Committee, Office of the Provost, The University of Iowa (2010 – 2014).

Member, Search Committee for the Honors Center Director, Office of the Provost, The University of Iowa (Spring 2011).

Member, Task Force on Bioinformatics, Office of the Provost, The University of Iowa (2011 – 2012).

Member, Digital Arts Cluster Steering Committee, Office of the Provost, The University of Iowa (2013 – 2018).

Member, Secondary Student Training Program Advisory Committee, The University of Iowa (2013 – 2015).

Member, Informatics Curriculum Advisory Committee, Office of the Provost, The University of Iowa (2014 – 2015).

Member, International Impact Award Selection Committee, International Programs, The University of Iowa (Summer 2014, Summer 2015, Summer 2016, Summer 2017, Summer 2018, Summer 2019, Summer 2020).

Member, Information Technology Advisory Committee, Information Technology Services, The University of Iowa (2015 – 2020).

Member, Ad Astra Report Review Committee, Office of the Provost, The University of Iowa (2014 – 2016).

Member, Classroom Scheduling and Utilization Committee, Office of the Provost, The University of Iowa (2016 – 2017).

Member, College of Engineering Five-Year Decanal Review Committee, Office of the Provost, The University of Iowa (Spring 2017).

Member, Campus Space Planning Committee, Facilities Management, The University of Iowa (Spring 2016 – present).

Member, Communications Center Renovation Committee, Facilities Management, The University of Iowa (Spring 2017).

Member, Internal Proposal review committee, Public Digital Arts Cluster, The University of Iowa (Spring 2019).

Member, Regents Award for Faculty Excellence selection committee, Office of the Provost, The University of Iowa (Spring 2019).

Member, Internal Proposal review committee, Fraternal Order of Eagles Diabetes Research Center, The University of Iowa (Spring 2019).

Member, Covid19 Research Restart workgroup, Critical Incident Management Team, Office of the Proovost, The University of Iowa (Spring 2020).

*Collegiate*

Member, Search Committee for the Assistant Director of Advising and Minority Programs, College of Engineering, Cornell University (Spring 1989).

Instructor, *Minority Introduction to Engineering*, College of Engineering, Cornell University (Summer 1991).

Site Visits, *Engineering Cooperative Program*, College of Engineering, Cornell University: Hewlett-Packard Corporation, Andover, MA (Fall 1990), IBM Research Triangle Park, Raleigh, NC (Fall 1992), NSF/Cornell Center for Theory and Simulation in Science and Engineering, Ithaca, NY

(Fall 1992).

Member, Academic Computing Council, College of Business Administration, The University of Iowa (1994 – 1995, 1996 – 1997).

Member, Undergraduate Program Committee, College of Business Administration, The University of Iowa (1995 – 1996, 1997 – 1998).

Member, Committee to Establish a Master’s Degree in Quantitative Finance, College of Business Administration, The University of Iowa (1995 – 1996).

Member, World Wide Web Advisory Committee, College of Business Administration, The University of Iowa (1996 – 1997).

Member, Elected Faculty Council, College of Business Administration, The University of Iowa (Spring 1997).

Member, Strategic Planning Committee, College of Business Administration, The University of Iowa (2000 – 2001).

Member, Developmental Leave Advisory Committee, College of Business Administration, The University of Iowa (2002 – 2003).

Member, Graduate Council, Graduate College, The University of Iowa (2006 – 2012).

Member, Selection Committee, D.C. Priestersbach Dissertation Award in Physical, Mathematical and Engineering Sciences, Graduate College, The University of Iowa (2006, 2008, 2010, 2012).

Member, Selection Committee, Ballard Seashore Dissertation Year Fellowships in the Humanities and Social Sciences, Graduate College, The University of Iowa (2007 – 2008).

Member, Educational Policy Committee, College of Liberal Arts and Sciences, The University of Iowa (2007 – 2010).

Faculty Reviewer, Jakobsen Graduate Student Conference, Graduate College and Graduate Student Senate, The University of Iowa (2008, 2009, 2010, 2011, 2012, 2018).

Member, Selection Committee, Graduate College Mentor Award, Graduate College, The University of Iowa (2010).

Member, GEEMAP/IGERT Steering Committee, College of Liberal Arts and Sciences, The University of Iowa (2010 – 2016).

Member, Executive Committee, College of Liberal Arts and Sciences, The University of Iowa (2012 – 2015, 2016 – 2019, 2020 – present).

Member, Associate Dean for Graduate and Online Education Search Committee, College of Liberal Arts and Sciences, The University of Iowa (2013).

Member, Public Digital Arts Music Faculty Search Committee, College of Liberal Arts and Sciences, The University of Iowa (2015 – 2016).

Member, Academic Advisor Search Committee, College of Liberal Arts and Sciences, The University of Iowa (2015).

Member, Academic Advisor Search Committee, College of Liberal Arts and Sciences, The University of Iowa (2015).

*Departmental*

Member, Faculty Recruiting Committee, Department of Computer Science, Cornell University (1987 – 1990, 1991 – 1992).

Member, Committee to Revise the Graduate Qualifying Exam, Department of Computer Science, Cornell University (1987 – 1988).

Coordinator, Colloquium Series, Department of Computer Science, Cornell University (1987 – 1988).

Member, Undergraduate Curriculum Advisory Committee, Department of Computer Science, Cornell University (1988 – 1989).

Coordinator, Artificial Intelligence Graduate Qualifying Exam, Department of Computer Science, Cornell University (1989 – 1993).

Member, Graduate Admissions Committee, Department of Computer Science, Cornell University (1990 – 1993).

Organizer, AI/Machine Vision/Robotics Joint Workshop, Department of Computer Science, Cornell University, and Thomas J. Watson Research Center, IBM (1992).

Member, Master of Engineering Curriculum Advisory Committee, Department of Computer Science, Cornell University (1992 – 1993).

Member, Colloquium Series Committee, Graduate Field of Cognitive Studies, Cornell University (1992 – 1993).

Member, Faculty Recruiting Committee, Department of Management Sciences, The University of Iowa (1994 – 1995, 1996 – 1997, 2000 – 2002).

Member, Information Systems Curriculum Review Committee, Department of Management Sciences, The University of Iowa (1995 – 1997).

Faculty Advisor, Undergraduate INFORMS Chapter, Department of Management Sciences, The University of Iowa (1994 – 1999).

Coordinator, Colloquium Series, Department of Management Sciences, The University of Iowa (1996 – 1997).

Chair, Undergraduate Achievement Award Selection Committee, Department of Management Sciences, The University of Iowa (1996 – 1997).

Chair, Undergraduate Program Committee, Department of Management Sciences, The University of Iowa (1997 – 1999).

Member, Multimedia Planning Committee, Helen C. Levitt Center for Viral Pathogenesis and Disease, The University of Iowa (1998 – 1999).

Member, Faculty Recruiting Committee, Department of Computer Science, The University of Iowa (2003 – 2006, 2007 – 2008, 2010 – 2011).

Director of Graduate Programs, Department of Computer Science, The University of Iowa (2003 – 2009).

Member, Computational Genetics Subtrack Committee, Interdisciplinary Genetics Graduate Program, The University of Iowa (2004 – 2006).

Member, Executive Committee, Department of Computer Science, The University of Iowa (2004 – 2006).

Director, Undergraduate Informatics Program, Department of Computer Science, The University of Iowa (2008 – 2016).

External Member, Faculty Promotion Committee, Department of Geography, The University of Iowa (2009).

External Member, Faculty Review Committee, School of Library and Information Science, The University of Iowa (2010).

External Member, Genetics of Aging Faculty Search Committee, Department of Biology, The University of Iowa (2012).

External Member, Digital Arts Faculty Search Committee, School of Music, The University of Iowa (2015).

### Professional

External Reviewer: *Computer Science and Engineering* (The University of Nebraska, Lincoln: 2013).  
Member, Editorial Board, and Book Review Editor, *Machine Learning*, (1991 – 1996).  
Member, Editorial Board, *Journal of the Learning Sciences*, (1993 – 2000).  
Member, Editorial Board, *Intelligent Data Analysis*, (1996 – 2001).  
Guest Editor, Special Track on Applications of Machine Learning, *IEEE Expert* (1992).  
Program Committee Chair, *Sixth International Workshop on Machine Learning* (ML89).  
Organizing Committee Chair, *Sixth International Workshop on Machine Learning* (ML89).  
Session Organizer, Session on Computational Biology, *INFORMS National Conference* (1996).  
Organizer and Host, *Big Ten Academic Alliance Computer Science Annual Chairs Workshop* (2019),  
Program/Organizing Committees: *ACM Conference on Bioinformatics, Computational Biology and Biomedicine* (BCB11); *National Conference on Artificial Intelligence* (AAAI90); *National Conference on Artificial Intelligence* (AAAI93); *Eighth Biennial Canadian Artificial Intelligence Conference* (CSCSI90); *Seventh International Conference on Machine Learning* (ICML90); *Eighth International Workshop on Machine Learning* (ICML91); *Ninth International Conference on Machine Learning* (ICML92); *Nineteenth International Conference on Machine Learning* (ICML02); *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM09); *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM10); *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM11); *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM12); *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM13); *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM14); *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM15); *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM16); *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM17); *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM18); *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM19); *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM20); *AMIA 2012 Annual Symposium* (AMIA12); *AMIA 2013 Annual Symposium* (AMIA13); *AMIA 2017 Annual Symposium* (AMIA17); *AMIA 2018 Annual Symposium* (AMIA18); *AMIA 2019 Annual Symposium* (AMIA19); *AMIA 2020 Annual Symposium* (AMIA20); *First International Conference on Artificial Intelligence Planning Systems* (AIPS92); *Eleventh International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems* (IEA/AIE98); *International ICSC Symposium on Advances in Intelligent Data Analysis* (AIDA99); *European Working Session on Learning* (EWSL91); *AAAI Spring Symposium on Planning and Search* (1989).  
Referee/Reviewer († indicates repeated service): National Institutes for Health†; Centers for Disease Control and Prevention†; National Science Foundation†; Congressionally Directed Medical Research Program†; Ford Foundation Predoctoral Diversity Fellowship Program†; NASA; North Carolina Biotechnology Center; The University of Iowa Technology Innovation Center; *Artificial Intelligence*†; *Machine Learning*†; *Journal of Artificial Intelligence Research*; *Journal of Heuristics*; *Intelligent Data Analysis*; *Biophysical Journal*; *Journal of the ACM*; *ACM Computing Surveys*; *ACM Transactions on Intelligent Systems and Technology*; *Communications of the ACM*; *Journal of Parallel and Distributed Computing*; *IEEE Journal on Pattern Analysis and Machine Intelligence*†; *IEEE Transactions on Robotics and Automation*; *IEEE Transactions on Knowledge and Data Engineering*; *Journal of the Learning Sciences*; *Cognition*; *ORSA Journal on Computing*; *Information Processing Letters*; *Tenth International Joint Conference on Artificial Intelligence* (IJCAI87); *Eleventh International Joint Conference on Artificial Intelligence* (IJCAI89); *Twelfth*

*International Joint Conference on Artificial Intelligence (IJCAI91); Fifteenth International Joint Conference on Artificial Intelligence (IJCAI97); European Conference on Artificial Intelligence (ECAI90); Thirteenth Annual Meeting of the Cognitive Science Society (CogSci91); Fourteenth Annual Meeting of the Cognitive Science Society (CogSci92); Fifteenth Annual Meeting of the Cognitive Science Society (CogSci93); Sixteenth Annual Meeting of the Cognitive Science Society (CogSci94); ACM Computer Science Conference (1994); ACM Computer Science Conference (1995); ACM Computer Science Conference (1996); IEEE International Conference on Bioinformatics and Biomedicine (BIBM07); IEEE International Conference on Bioinformatics and Biomedicine (BIBM08); IEEE International Conference on Bioinformatics and Bioengineering (BIBE07); IEEE International Conference on Robotics and Automation (ICRA93); IEEE Conference on Artificial Intelligence Systems in Government (AISIG90); AAAI Spring Symposium on Explanation-Based Learning (1988); Fifth International IEEE Conference on Tools with Artificial Intelligence (TAI93); Sixth International IEEE Conference on Tools with Artificial Intelligence (TAI94); International Computer Music Conference (ICMC82); Logic for Programming, Artificial Intelligence, and Reasoning (LPAR05); International Multisymposiums on Computer and Computational Sciences (IMSCCS07); Seventh International Conference on Machine Learning and Applications (IMCLA08); IEEE International Joint Conference on Computational Sciences and Optimization (CSO09); Cornell University Press; Kluwer Academic Press; Morgan Kaufmann Publishers; Prentice-Hall Publishers; Oxford University Press; Science Research Associates Press; Macmillan Publishing Company; Manning Publications Company.*

Member: *Association for Computing Machinery (ACM); Institute of Electrical and Electronics Engineers (IEEE).*

## **Research Funding**

Principal Investigator, *The Cornell Apprentice Project*, Office of Naval Research (December 1, 1987 – January 31, 1990); \$201,842.

Principal Investigator (Workshop Organizer), *Sixth International Workshop on Machine Learning*, National Science Foundation (March 15, 1989 – August 31, 1989); \$6,000.

Principal Investigator (Workshop Organizer), *Sixth International Workshop on Machine Learning*, Office of Naval Research (May 1, 1989 – July 31, 1989); \$8,800.

Recipient, Equipment gift, Hewlett-Packard Corporation (1990); \$77,754.

Recipient, Unrestricted gift, Xerox Corporation (1990); \$10,000.

Principal Investigator, *The Cornell Apprentice Project* (renewal), Office of Naval Research (February 1, 1990 – January 31, 1991); \$127,103.

Principal Investigator, *The Cornell Apprentice Project* (renewal), Office of Naval Research (February 1, 1991 – January 31, 1994); \$300,000.

Consultant, *A Decision Support System for Estimating Angler Harvests* (with Principal Investigators Bruce Wilkins, Natural Resources, Cornell University and Cynthia Jones, Applied Marine Research Laboratory, Old Dominion University), New York Sea Grant Institute (January 1, 1992 – December 31, 1993); \$107,972.

Principal Investigator, *Learning, Deliberation, and Action: An Adaptive Approach to the Planning Problem* (with Co-Principal Investigator Randall Calistri-Yeh, Odyssey Research Associates), Advanced Research Projects Administration (February 1, 1993 – January 31, 1996); \$782,107.

Principal Investigator, *A Program of Research in Distributed Adaptive Logical Inference*, Office of Naval Research (September 1, 1994 – June 30, 1997); \$347,017. This proposal also received an additional \$10,000 in equipment matching funds from the University of Iowa Office of Sponsored



Programs.

- Principal Investigator, *Interdisciplinary Health Informatics Courses Within the Health Sciences Center* (with Co-Principal Investigators Connie Delaney, R. Edward Howell, Michael Kienzle, James Wagner, Kathryn Rattenborg, Susan Zollo, Andrew Kusiak and Padmini Srinivasan, The University of Iowa), The University of Iowa Office of the Vice President for Health Sciences (1996); \$8,266.
- Principal Investigator, *A Distributed Optimization Algorithm for the Prediction of Protein Tertiary Structure* (with Co-Principal Investigators Yinyu Ye, Management Sciences; Kenneth Murphy, Biochemistry; and William Kearny, Nuclear Magnetic Resonance Laboratory; The University of Iowa), The University of Iowa Biosciences Initiative Pilot Grant Program (January 1, 1998 – June 30, 1998); \$25,000.
- Principal Investigator, *Instrumentation for Research in Search Technology* (with Co-Principal Investigators Hantao Zhang, Maria Paola Bonacina and Jarkko Kari, Computer Science; and Yinyu Ye, Management Sciences; The University of Iowa), National Science Foundation (April 1, 1998 – May 31, 1999); \$100,752. This proposal also received an additional \$67,168 in equipment matching funds from the University of Iowa Office of Sponsored Programs, and \$125,000 in operations and maintenance matching funds from the University of Iowa.
- Principal Investigator, *A Distributed Optimization Algorithm for the Prediction of Protein Tertiary Structure* (with Co-Principal Investigators Yinyu Ye, Management Sciences; Kenneth Murphy, Biochemistry; and William Kearny, Nuclear Magnetic Resonance Laboratory; The University of Iowa), National Science Foundation (June 15, 1998 – June 14, 2000); \$100,000.
- Principal Investigator, *Distributed Hybrid Optimization Techniques with Applications to Proteomics and Genomics*, National Science Foundation (September 1, 2002 – August 31, 2007); \$487,741.
- Principal Investigator, *A Prototype Genetic Likelihood Visualization Utility* (with Co-Principal Investigators Mark Logue and Veronica Vieland, Biostatistics; James Cremer, Computer Science; and Jun Ni, Steven Beck and Boyd Knosp, ITS Research Technologies; The University of Iowa), The University of Iowa Informatics Initiative Seed Grant Program (January 1, 2003 – December 31, 2003); \$30,000.
- Principal Investigator, *The Iowa Bioinformatics Portal* (with Co-Principal Investigators Jan Fassler and William Ballard, Biology; Boyd Knosp, ITS Research Technologies; Jian Huang, Statistics and Actuarial Sciences; and Tom Casavant, Electrical Engineering; The University of Iowa), The University of Iowa Informatics Initiative Seed Grant Program (January 1, 2003 – December 31, 2003); \$24,212.
- Co-Investigator, *Enhancing the Computing Infrastructure and Laboratory Facilities for Computer Science and Management Information Systems Students*, (with Co-Investigators Warren Boe and Yvonne Galusha, Management Sciences; James Cremer, Computer Science; The University of Iowa), State Farm Insurance (August 2006 – August 2007); \$50,791.
- Principal Investigator, *Infrastructure to Facilitate Discovery of Autism Genes*, Autism Speaks subcontract through the Ohio State University (August 1, 2006 – July 31, 2007); \$70,828.
- Principal Investigator, *Beyond Random Mixing in Epidemiological Models* (with Co-Principal Investigators Philip Polgreen, Internal Medicine, The University of Iowa; Ted Herman and Sriram Pemmaraju, Computer Science, The University of Iowa; and Troy Tassier, Economics, Fordham University), The University of Iowa Translational Research Pilot Grant Program (February 1, 2007 – February 1, 2008); \$50,000.
- Principal Investigator, *Infrastructure to Facilitate Discovery of Autism Genes*, Autism Speaks subcontract through the Ohio State University (March 14, 2007 – March 14, 2008); \$81,401.
- Principal Investigator, *Infrastructure to Facilitate Discovery of Autism Genes*, Autism Speaks

- subcontract through the Ohio State University (March 14, 2008 – August 31, 2008); \$22,497.
- Principal Investigator, *Contact Network Epidemiology of Influenza and Other Nosocomial Infections* (with Co-Principal Investigator Philip Polgreen, Internal Medicine and Co-Investigators Sriram Pemmaraju, Computer Science; Ted Herman, Computer Science; and Joseph Cavanaugh, Biostatistics), National Institutes of Health (June 19, 2009 – June 18, 2012), \$401,778.
- Co-Principal Investigator, *IGERT: Geoinformatics for Environmental and Energy Modeling and Prediction (GEEMaP)* (with Principal Investigator Mary Kathryn Cowles, Statistics and Biostatistics; Co-Principal Investigators David Bennett, Kathleen Stewart, Geography; and Andrew Kusiak, Mechanical and Industrial Engineering) NSF IGERT (July 1, 2010 – June 30, 2018), \$2,631,084.
- Co-Investigator, *Emerging Infections Sentinel Networks* (with Principal Investigator Philip Polgreen, Internal Medicine), Centers for Disease Control and Prevention (July 1, 2010 – June 30, 2011), \$281,797.
- Co-Investigator, *A Sustainable Health Prediction Market* (with Principal Investigator Forrest Nelson, Economics; and Co-Investigators George Neumann, Economics; Philip Polgreen, Internal Medicine; Linnea Polgreen, Pharmacy Practice and Science), Robert Wood Johnson Foundation (August 1, 2010 – July 31, 2011), \$297,584.
- Principal Investigator, *Hand-Hygiene Monitoring and Reporting via Wireless Mobile Devices* (with Co-Principal Investigators Philip Polgreen, Internal Medicine; Ted Herman, Computer Science; Sriram Pemmaraju, Computer Science; Geb Thomas, Industrial Engineering; and Dale Zimmerman, Statistics), The University of Iowa Translational Research Pilot Grant Program (January 1, 2011 – June 30, 2011); \$25,000.
- Principal Investigator, *CSR: Small: Non-Invasive Detection of Malicious JavaScript at Web Browsers*, National Science Foundation subcontract through the University of San Francisco (September 1, 2010 – August 30, 2011); \$26,406.
- Principal Investigator, *Sensor Technology for Tracking and Displaying Bed Elevation Data for Mechanically Ventilated Patients* (with Co-Principal Investigators Philip Polgreen, Internal Medicine; Geb Thomas, Industrial Engineering; and Ted Herman, Computer Science), Medline Industries (April 1, 2012 – October 1, 2012); \$25,000.
- Co-Investigator, *Six-Degrees of (Dr.) Kevin Bacon: Using Wireless Devices for Estimation of Contact Patterns in Outpatient Hemodialysis to Optimize Infection Prevention* (with Principal Investigators Matt Wise, Centers for Disease Control and Prevention, and Philip Polgreen, Internal Medicine, The University of Iowa; and Co-Investigators Geb Thomas, Industrial Engineering; and Ted Herman, Computer Science, The University of Iowa), Centers for Disease Control and Prevention (July 1, 2012 – June 30, 2013); \$100,000.
- Principal Investigator, *An Empirical Study of Bed-Tilt Feedback for Mechanically Ventilated Patients* (with Co-Principal Investigators Philip Polgreen, Internal Medicine; Ted Herman, Computer Science; Juan Pablo Hourcade, Computer Science; and Kevin Doerschug, Internal Medicine), Medline Industries (July 1, 2013 – June 30, 2014); \$100,000.
- Principal Investigator, *Making Algorithmic Thinking Concrete via Collaboration with the Performing Arts* (with Co-Principal Investigator George de la Pena, Department of Dance), Innovations in Teaching with Technology Awards (December 30, 2013 – June 30, 2013); \$10,000.
- Co-Investigator, *The Infectious Diseases Society of America Emerging Infections Network (IDSA EIN)* (with Principal Investigator Philip Polgreen, Internal Medicine and Co-Investigator James Cremer, Computer Science), Centers for Disease Control and Prevention (July 1, 2015 – June 30, 2016), \$300,000.

- Co-Investigator, *Volume of Contamination and Nosocomial Infection Control* (with Principal Investigator Eli Perencevich, Internal Medicine, and Co-Investigators James Cremer, Computer Science; Philip Polgreen, Internal Medicine; Priyadarhini Pennathur, Industrial Engineering; Heather Reisinger, Internal Medicine; Michael Edmond, Internal Medicine; Matthew Nonnenmann, Occupational and Environmental Health; Amy O’Shea, Internal Medicine; Michihiko Goto, Internal Medicine; Marin Schweizer, Internal Medicine; Daniel Diekema, Internal Medicine; Loreen Herwaldt, Internal Medicine), Centers for Disease Control and Prevention (October 1, 2015 – September 30, 2018), \$2,195,739.
- Co-Investigator, *The Innovation Laboratory*, Signal Center for Healthcare Innovation (with Principal Investigator Philip Polgreen, Internal Medicine), University of Iowa Health Ventures (January 1, 2016 – December 31, 2017); \$2,500,000.
- Principal Investigator, *An m-Health Tool to Increase Activity Among Patients at Risk for Type 2 Diabetes* (with Co-Principal Investigator Philip Polgreen, Internal Medicine and Co-Investigators James Cremer, Computer Science and Joseph Cavanaugh, Biostatistics), National Institutes of Health (July 1, 2016 – June 30, 2019), \$418,814.
- Principal Investigator, *Pair Programming as a Pedagogical Approach for Promoting Success and Equity in Computer Science Coursework* (with Co-Principal Investigator Nicholas Bowman, Department of Higher Education and Student Affairs), National Science Foundation (June 15, 2016 – June 14, 2019), \$299,904.
- Co-Investigator, *The Infectious Diseases Society of America Emerging Infections Network (IDSA EIN)* (with Principal Investigator Philip Polgreen, Internal Medicine and Co-Investigator James Cremer, Computer Science), Centers for Disease Control and Prevention (July 1, 2016 – June 30, 2021), \$2,000,000.
- Principal Investigator, *Contact Network Modeling and Simulation of Healthcare-Associated Infections* (with Co-Investigators Sriram Pemmaraju, Computer Science; Philip Polgreen, Internal Medicine and Daniel Sewell, Biostatistics), Centers for Disease Control and Prevention (August 1, 2017 – July 31, 2020), \$1,725,262.
- Principal Investigator, *Remote Monitoring of Diabetic Foot Ulcers* (with Co-Investigator John Femino, Orthopaedic Surgery), Fraternal Order of Eagles Diabetes Research Center Pilot Grant Program (August 1, 2017 – July 31, 2019); \$100,000.
- Co-Investigator, *An m-Health Intervention to Increase the Activity Levels of Rural Veterans* (with Principal Investigator Philip Polgreen, Internal Medicine), Veterans Administration Office of Rural Health (October 1, 2017 – September 30, 2020), \$720,041.
- Co-Investigator, *The University of Iowa Clinical and Translational Science Award* (with Principal Investigators Pat Winokur and Jeffrey Murray, Carver College of Medicine and 24 other Co-Investigators), National Institutes of Health (April 1, 2018 – March 31, 2023), \$21,467,865.
- Co-Investigator, *Accuracy and Acceptability of StandDesk Monitor for Measuring Time spent Sitting and Standing at a Workstation* (with Principal Investigator Lucas Carr, Health and Human Physiology and Co-Investigators Philip Polgreen and Jacob Simmering, Internal Medicine and Ted Herman, Computer Science), Healthier Workforce of the Midwest Pilot Grant Program (July 1, 2018 – June 30, 2019); \$29,549.
- Co-Investigator, *An Expert-Guided Machine-Learning Approach to Estimate the Incidence, Risk and Harms Associated with Diagnostic Delays for Infectious Diseases* (with Principal Investigator Philip Polgreen, Internal Medicine and Co-Investigators Aaron Miller, Epidemiology; Manish Suneja, Internal Medicine; Joseph Cavanaugh, Biostatistics; Linnea Polgreen, Pharmacy Practice and Science; and Jennifer Kuntz, Kaiser Permanente), Agency for Healthcare Research and Quality

(October 1, 2019 – September 20, 2022), \$1,499,796.

Principal Investigator, *Urgent COVID-19 Mathematical Modeling of Healthcare Impact and Capacity* (with Co-Investigators Sriram Pemmaraju, Ted Herman, Computer Science; Philip Polgreen, Internal Medicine; Aaron Miller, Epidemiology; Daniel Sewell and Joe Cavanaugh, Biostatistics ), Centers for Disease Control and Prevention (April 16, 2020 – April 15, 2021), \$200,000.

Co-Investigator, *Collaborative Research: III: Medium: Hospital Acquired Infections* (with Principal Investigator Sriram Pemmaraju, Computer Science and Co-Investigator Philip Polgreen, Internal Medicine), National Science Foundation (June 15, 2020 – May 31, 2023), \$381,761.

Principal Investigator, *Contact Network Transmission Modeling of Healthcare-Associated Infections* (with Co-Principal Investigator Philip Polgreen, Internal Medicine and Co-Investigators Sriram Pemmaraju, Computer Science; Daniel Sewell, Biostatistics; and Aaron Miller, Epidemiology), Centers for Disease Control and Prevention (August 1, 2020 – July 31, 2025), \$3,407,765.

Co-Investigator, *A COVID-19 Supplement to 'An Expert-Guided Machine-Learning Approach to Estimate the Incidence, Risk and Harms Associated with Diagnostic Delays for Infectious Diseases'*, (with Principal Investigator Philip Polgreen, Internal Medicine and Co-Investigators Aaron Miller, Epidemiology; Manish Suneja, Internal Medicine; Joseph Cavanaugh, Biostatistics; Linnea Polgreen, Pharmacy Practice and Science; and Jennifer Kuntz, Kaiser Permanente), Agency for Healthcare Research and Quality (September 30, 2020 – September 29, 2021), \$496,235.

Principal Investigator, *A COVID-19 Supplement to 'Contact Network Transmission Modeling of Healthcare-Associated Infections'* (with Co-Principal Investigator Philip Polgreen, Internal Medicine and Co-Investigators Sriram Pemmaraju, Computer Science; Daniel Sewell, Biostatistics; and Aaron Miller, Epidemiology), Centers for Disease Control and Prevention (August 1, 2020 – July 31, 2021), \$650,000.

## Grants Pending

Co-Investigator, *Acquiring and Using Contact Network Models to Prevent Workplace Influenza* (with Principal Investigator Philip Polgreen, Internal Medicine and Co-Investigators Daniel Sewell, Biostatistics; Linnea Polgreen, Pharmacy; Ted Herman and Sriram Pemmaraju, Computer Science), Centers for Disease Control and Prevention (September 1, 2019 – August 30, 2023), \$1,250,000 (approved, pending availability of funds).

## Publications

### *Books*

1. A.M. Segre, *Machine Learning of Robot Assembly Plans*, Kluwer Academic, Boston, MA (March 1988).
2. *Proceedings of the Sixth International Machine Learning Workshop*, Morgan Kaufmann, San Mateo, CA (June 1989).

### *Journal Articles*

1. A.M. Segre, C.P. Elkan, and A. Russell, "A Critical Look at Experimental Evaluations of EBL," *Machine Learning* **6**(2), pp. 183-196, Kluwer Academic, Boston, MA (March 1991).
2. A.M. Segre, "Learning How to Plan," *Robotics and Autonomous Systems* **8**(1-2), pp. 93-111, North Holland, New York, NY (November 1991).
3. A.M. Segre, "Applications of Machine Learning," *IEEE Expert* **7**(3), pp. 30-35, IEEE Computer Society, Los Alamitos, CA (June 1992).

4. A.M. Segre and D. Scharstein, "Bounded-Overhead Caching for Definite-Clause Theorem Proving," *Journal of Automated Reasoning* **11**(1), pp. 83-113, Kluwer Academic, Boston, MA (August 1993).
5. A.M. Segre and G.J. Gordon, "Computer Systems that Learn (Book Review)," *Artificial Intelligence* **62**(2), pp. 363-378, North Holland, New York, NY (August 1993).
6. M. Koppel, R. Feldman, and A.M. Segre, "Bias-Driven Revision of Logical Domain Theories," *Journal of Artificial Intelligence Research* **1**, pp. 159-208, Morgan Kaufmann, San Mateo, CA (February 1994).
7. R. Feldman, M. Koppel, and A.M. Segre, "Extending the Role of Bias in Probabilistic Theory Revision," *Knowledge Acquisition* **6**(2), pp. 197-214, Kluwer Academic, Boston, MA (June 1994).
8. A.M. Segre and C.P. Elkan, "A High Performance Explanation-Based Learning Algorithm," *Artificial Intelligence* **69**(1-2), pp. 1-50, North Holland, New York, NY (September 1994).
9. A.M. Segre, G.J. Gordon, and C.P. Elkan, "Exploratory Analysis of Speedup Learning Data Using Expectation Maximization," *Artificial Intelligence* **85**(1-2), pp. 301-319, North Holland, New York, NY (August 1996).
10. D.B. Sturgill and A.M. Segre, "Nagging: A Distributed Adversarial Search-Pruning Technique Applied to First-Order Logic," *Journal of Automated Reasoning* **19**(3), pp. 347-376, Kluwer Academic, Boston, MA (December 1997).
11. S. Kim and A.M. Segre, "AMASS: A Structured Pattern Matching Approach to Shotgun Sequence Assembly," *Journal of Computational Biology* **6**(2), pp. 163-186 (Spring 1999). [PMID: 10421521].
12. F. Menczer and A.M. Segre, "OAMulator: A Teaching Resource to Introduce Computer Architecture Concepts," *ACM Journal of Educational Resources in Computing* **1**(4), pp. 18-30 (December 2001).
13. W. Lam and A.M. Segre, "A Distributed Learning Algorithm for Bayesian Inference Networks," *IEEE Transactions on Knowledge and Data Engineering* **14**(1), pp. 93-105 (January/February 2002).
14. A.M. Segre, S. Forman, G. Resta, and A. Wildenberg, "Nagging: A Scalable, Fault-Tolerant, Distributed Search Paradigm," *Artificial Intelligence* **140**(1-2), pp. 71-106, North Holland, New York, NY (September 2002).
15. A.W. George, L.A. Mangin, C.W. Bartlett, M.W. Logue, A.M. Segre, and V.J. Vieland, "Calculation of Multipoint Likelihoods Using Flanking Marker Data: A Simulation Study," *BMC Genetics* **6**(S44) (December 2005). [DOI:10.1186/1471-2156-6-S1-S44][PMID: 16451655][PMCID: PMC1866740].
16. Autism Genome Project Consortium, "Mapping Autism Risk Loci Using Genetic Linkage and Chromosomal Rearrangements," *Nature Genetics* **39**(3), pp. 319-328 (March 2007). [DOI:10.1038/ng1985][PMID: 17322880][PMCID: PMC4867008].
17. M. Govil, A.M. Segre, and V.J. Vieland, "MLIP: Using Multiple Processors to Compute the Posterior Probability of Linkage," *BMC Bioinformatics* **9**(S6), pp. 1-12 (May 2008). [DOI:10.1186/1471-2105-9-S6-S2][PMID: 18541055][PMCID: PMC2423443].
18. S. Yang, A.M. Segre, and B. Codenotti, "An Optimal Multiprocessor Combinatorial Auction Solver," *Computers and Operations Research* **36**(1), pp. 149-166 (January 2009). [DOI:10.1016/j.cor.2007.08.001].
19. P.M. Polgreen, E. Chen, A.M. Segre, M. Harris, M. Pentella, and G. Rushton, "Optimizing Influenza Sentinel Surveillance at the State Level," *American Journal of Epidemiology* **170**, pp. 1300-1306 (November 15, 2009). [DOI:10.1093/aje/kwp270][PMID: 19822570][PMCID: PMC2800268].
20. C.S. Hlady, M.A. Severson, A.M. Segre, and P.M. Polgreen, "A Mobile Handheld Computing Application for Recording Hand Hygiene Observations," *Infection Control and Hospital*

- Epidemiology* **31**(9), pp. 975-977 (September 2010). [DOI:10.1086/655834][PMID: 20636134][PMCID: PMC3024852][NIHMS: 262471].
21. P.M. Polgreen, T.L. Tassier, S.V. Pemmaraju, and A.M. Segre, "Prioritizing Healthcare Worker Vaccinations on the Basis of Social Network Analysis," *Infection Control and Hospital Epidemiology* **31**(9), pp. 893-900 (September 2010). [PMID: 20649412][PMCID: PMC3024853].
  22. P.M. Polgreen, C.S. Hlady, M.A. Severson, A.M. Segre, and T. Herman, "Method for Automated Monitoring of Hand Hygiene Adherence without Radio-Frequency Identification," *Infection Control and Hospital Epidemiology* **31**(12), pp. 1294-1297 (December 2010). [PMID: 20973724].
  23. A. Signorini, A.M. Segre, and P.M. Polgreen, "The Use of Twitter to Track Levels of Disease Activity and Public Concern in the US During the Influenza A H1N1 Pandemic," *PLOS One* (May 4, 2011). [PMID: 21573238][PMCID: PMC3087759].
  24. K. Ellingson, P.M. Polgreen, A. Schnieder, L. Shinkunas, L.C. Kaldjian, D. Wright, G.W. Thomas, A.M. Segre, T. Herman, L.C. McDonald, and R. Sinkowitz-Cochran, "Healthcare Personnel Perceptions of Automated Hand-Hygiene Adherence Monitoring Technology," *Infection Control and Hospital Epidemiology* **32**(11), pp. 1091-1096 (November 2011). [DOI:10.1086/662179][PMID: 22011536].
  25. V.J. Vieland, Y. Huang, S.C. Seok, J. Burian, U. Catalyurk, J. O'Connell, A.M. Segre, and W. Valentine-Cooper, "KELVIN: A Software Package for Rigorous Measurement of Statistical Evidence in Human Genetics," *Human Heredity* **72**(4), pp. 276-288 (December 2011). [PMID: 22189470][PMCID: PMC3267994].
  26. J.A. Fries, A.M. Segre, G.W. Thomas, T. Herman, K. Ellingson, and P.M. Polgreen, "Monitoring Hand Hygiene via Human Observers: How Should We be Sampling?" *Infection Control and Hospital Epidemiology* **33**(7), pp. 689-695 (July 2012). [PMID: 22669230].
  27. E.C. Leira, G.C. Fairchild, A.M. Segre, G. Rushton, M.T. Froehler, and P.M. Polgreen, "Primary Stroke Centers Should Be Located Using Maximal Coverage Models for Optimal Access," *Stroke* **43**, pp. 2417-2422 (July 2012). [PMID: 22811453].
  28. T. Hornbeck, D. Naylor, A.M. Segre, G.W. Thomas, T. Herman, and P.M. Polgreen, "Using Sensor Networks to Study the Effect of Peripatetic Healthcare Workers on the Spread of Hospital-Associated Infections," *Journal of Infectious Diseases* **206**(10), pp. 1549-1557 (November 2012). [PMID: 23045621][PMCID: PMC3475631].
  29. J. Halldorson, J. Dodge, H.J. Paarsch, A.M. Segre, and J.P. Roberts, "Center Competition and Outcome Following Liver Transplantation," *Liver Transplantation* **19**(1), pp. 96-104 (January 2013). [PMID: 23086897][PMCID: PMC4141491].
  30. J.A. Fries, A.M. Segre, and P.M. Polgreen, "Reply to 'A Rapid Cycle Quality Improvement Initiative to Increase Compliance with Infection Precautions in a Pediatric Ward'," *Infection Control and Hospital Epidemiology* **34**(2), pp. 214-215 (February 2013).
  31. B.W. Darbo, V.B. Mahajan, L. Gakhar, J.M. Skeie, E. Campbell, S. Wu, X. Bing, K. Millen, W.B. Dobyns, J.A. Kessler, A. Jalali, J. Cremer, A.M. Segre, J.R. Manak, J.C. Murray, S. Suzuki, N. Natsume, M. Ono, H.D. Hai, L.T. Viet, S. Loddo, E.M. Valente, L. Bernardini, N. Ghonge, P.H. Gerguson, and A.G. Bassuk, "Mutations in Extracellular Matrix Genes NID1 and LAMC1 Cause Autosomal Dominant Dandy-Walker Malformation and Occipital Cephaloceles," *Human Mutation* **34**(8), pp. 1075-1079 (August 2013). [DOI:10.1002/lt.23561][PMID: 23674478].
  32. D.E. Curtis, C.S. Hlady, G. Kanade, S.V. Pemmaraju, P.M. Polgreen, and A.M. Segre, "Healthcare Worker Contact Networks and the Prevention of Hospital-Acquired Infections," *PLOS One*

- (December 2013). [DOI:10.1371/journal.pone.0079906][PMID: 24386075][PMCID: PMC3875421].
33. G.C. Fairchild, P.M. Polgreen, E. Foster, G. Rushton, and A.M. Segre, "How Many Suffice? A Computational Framework for Sizing Sentinel Surveillance Networks," *International Journal of Health Geographics* **12**(56) (December 2013). [DOI:10.1186/1476-072X-12-56][PMID: 24321203][PMCID: PMC4029481].
  34. M.N. Monsalve, S.V. Pemmaraju, G.W. Thomas, T. Herman, A.M. Segre, and P.M. Polgreen, "Do Peer Effects Improve Hand Hygiene Adherence Among Healthcare Workers?" *Infection Control and Hospital Epidemiology* **35**(10), pp. 1277-1285 (October 2014). [PMID: 25203182][PMCID: PMC5508553][NIHMS: 877222].
  35. V. Galluzzi, T. Herman, D.J. Shumaker, D.R. Macinga, J.W. Arbogast, E.M. Segre, A.M. Segre, and P.M. Polgreen, "Electronic Recognition of Hand-Hygiene Technique and Duration," *Infection Control and Hospital Epidemiology* **35**(10), pp. 1298-1300 (October 2014). [PMID: 25203186].
  36. T.L. Tassier, P.M. Polgreen, and A.M. Segre, "Vaccination Games with Peer Effects in a Heterogeneous Population," *Administrative Sciences* **5**, pp. 2-26 (January 2015). [DOI:10.3390/admsci5010002].
  37. C.A. Anthony, L.A. Polgreen, J.P. Chounramany, E.D. Foster, C.J. Goerd, M.L. Miller, M. Suneja, A.M. Segre, B.L. Carter, and P.M. Polgreen, "Outpatient Blood Pressure Monitoring Using Bi-Directional Text Messaging," *Journal of the American Society of Hypertension* **9**(5), pp. 375-381 (May 2015). [DOI:10.1016/j.jash.2015.01.008][PMID: 25771023].
  38. P.M. Polgreen, T.L. Tassier, and A.M. Segre, "Network Position and Health Care Worker Infections," *Journal of Economic Interaction and Coordination* (September 7, 2015). [DOI:10.1007/s11403-015-0166-4].
  39. J.Y. Chen, J.F. Cremer, K. Zarei, A.M. Segre, and P.M. Polgreen, "Using Computer Vision and Depth Sensing to Measure Healthcare Worker-Patient Contacts and Personal Protective Equipment Adherence within Hospital Rooms," *Open Forum Infectious Diseases* **3**(1) (Winter 2016). [DOI:10.1093/ofid/ofv200][PMID: 26949712][PMCID: PMC4757761].
  40. P.M. Polgreen and A.M. Segre, "Network Models, Patient Transfers and Infection Control," *Clinical Infectious Diseases* **63**(7), pp. 894-895 (August 2, 2016).
  41. L.A. Polgreen, C.A. Anthony, L.J. Carr, J.E. Simmering, N.J. Evans, E.D. Foster, A.M. Segre, J.F. Cremer, and P.M. Polgreen, "The Effect of Automated Text Messaging and Goal Setting on Pedometer Adherence and Physical Activity in Patients with Diabetes," *PLOS One* **13**(5) (May 2, 2018). [DOI:10.1371/journal.pone.0195797][PMID: 29718931][PMCID: PMC5931450].
  42. L.J. Carr, A.L. Gremaud, J.E. Simmering, N.J. Evans, J.F. Cremer, A.M. Segre, L.A. Polgreen, and P.M. Polgreen, "Gamifying Accelerometer Use Increases Physical Activity Levels of Sedentary Office Workers," *Journal of the American Heart Association* **7**(13) (July 3, 2018). [DOI:10.1161/jaha.117.007735].
  43. R. Butler, M.N. Monsalve, G.W. Thomas, T. Herman, A.M. Segre, P.M. Polgreen, and M. Suneja, "Estimating Time Physicians and Other Healthcare Workers Spend with Patients in an Intensive Care Unit Using a Sensor Network," *The American Journal of Medicine* (July 7, 2018). [DOI:10.1016/j.amjmed.2018.03.015].
  44. M.T. Lash, J. Slater, P.M. Polgreen, and A.M. Segre, "21 Million Opportunities: A 19 Facility Investigation of Factors Affecting Hand Hygiene Compliance via Linear Predictive Models," *Journal of Healthcare Informatics Research* (April 2019). [DOI:10.1007/s41666-019-00048-1].

45. D.K. Sewell, J.E. Simmering, S. Justice, S.V. Pemmaraju, A.M. Segre, and P.M. Polgreen, "Estimating the Attributable Disease Burden and Effects of Inter-Hospital Patient Sharing on *Clostridium difficile* Infections," *Infection Control and Hospital Epidemiology* **40**(6), pp. 656-661 (June 2019). [DOI:10.1017/ice.2019.73].
46. R.S. Zahr, C.A. Anthony, P.M. Polgreen, J.E. Simmering, C.J. Goerdt, A.B. Hoth, M.L. Miller, M. Suneja, A.M. Segre, B.L. Carter, and L.A. Polgreen, "A Texting-Based Blood Pressure Surveillance Intervention," *Journal of Clinical Hypertension* **21**(10), pp. 1463-1470 (October 2019). [DOI:10.1111/jch.13674].
47. N.A. Bowman, L.A. Jarratt, L.A. Polgreen, T.W. Kruckeberg, and A.M. Segre, "Early Identification of Students' Social Networks: Predicting College Retention and Graduation via Campus Dining," *Journal of College Student Development* **60**(5), pp. 617-622 (September-October 2019). [DOI:10.1353/csd.2019.0052].
48. L.A. Jarratt, N.A. Bowman, L.A. Polgreen, T.W. Kruckeberg, and A.M. Segre, "Common Data, Uncommon Use: Dining Hall Meal Swipes Predict Retention and Graduation," *Change: The Magazine of Higher Learning* **51**(6), pp. 26-33 (December 2019). [DOI:10.1080/00091383.2019.1674098].
49. R.B. Slayton, J.J. O'Hagan, S. Barnes, S. Rhea, R. Hilscher, M. Rubin, E. Lofgren, B. Singh, A.M. Segre, and P. Paul, "Modeling Infectious Diseases in Healthcare Network (MInD-Healthcare) Framework for Describing and Reporting Multidrug Resistant Organism and Healthcare-Associated Infections Agent-Based Modeling Methods," *Clinical Infectious Diseases*, Centers for Disease Control and Prevention, Atlanta, GA (March 2020).
50. S. Pai, P.M. Polgreen, A.M. Segre, D.K. Sewell, and S.V. Pemmaraju, "Spatiotemporal Clustering of In-Hospital *Clostridioides difficile* Infection (CDI)," *Infection Control and Hospital Epidemiology* **41**(4), pp. 418-424 (April 2020). [DOI:10.1017/ice.2019.350].
51. A.C. Miller, A.M. Segre, S.V. Pemmaraju, D.K. Sewell, and P.M. Polgreen, "Association of Household Exposure to Primary *Clostridioides difficile* Infection with Secondary Infection in Family Members," *JAMA Network Open* **3**(6) (June 26, 2020). [DOI:10.1001/jamanetworkopen.2020.8925].

#### *Journal Articles In Press*

1. S. Francis, C.A. Anthony, E. Rojas, A.R. Miller, L.A. Polgreen, J.E. Femino, P.M. Polgreen, and A.M. Segre, "Diabetic Foot Surveillance Using Mobile Phones and Automated Software Messaging," To appear in: *Iowa Orthopedic Journal* (March 2020).
2. N.A. Bowman, L. Jarratt, K.C. Culver, and A.M. Segre, "Pair Programming in Perspective: Its Impact on Persistence, Achievement, and Equity in Computer Science," To appear in: *Journal of Research on Educational Effectiveness* (June 2020).

#### *Journal Articles Under Review*

1. N.A. Bowman, L.A. Jarratt, K.C. Culver, and A.M. Segre, "The Impact of Pair Programming on College Students' Interest, Perceptions, and Achievement in Computer Science," Submitted to: *Association for Computing Machinery Transactions on Computing Education* (November 2019).
2. S.L. Francis, K.R. Hosteng, L.J. Carr, J.E. Simmering, J.F. Cremer, A.M. Segre, L.A. Polgreen, and P.M. Polgreen, "Gamefying Accelerometer Use Increases Physical Activity Levels of Individuals Pre-Disposed to Type II Diabetes," Submitted to: *Journal of the American Heart Association* (June 2020).



#### *Articles in Books*

1. A.M. Segre, "Explanation-Based Manipulator Learning," pp. 303-306, in *Machine Learning: A Guide to Current Research*, ed. T.M. Mitchell, J.G. Carbonell, and R.S. Michalski, Kluwer Academic, Boston, MA (March 1986).
2. A.M. Segre, "ARMS: Acquiring Robotic Assembly Plans," pp. 317-342, in *Investigating Explanation-Based Learning*, ed. G.F. DeJong, Kluwer Academic, Boston, MA (October 1992).
3. A.M. Segre, C.P. Elkan, D. Scharstein, G.J. Gordon, and A. Russell, "Adaptive Inference," pp. 43-81, in *Foundations of Knowledge Acquisition*, ed. A. Meyrowitz and S. Chipman **2**, Kluwer Academic, Boston, MA (January 1993).
4. A.M. Segre and J. Turney, "Planning, Acting, and Learning in a Dynamic Domain," pp. 125-158, in *Machine Learning Methods for Planning*, ed. S. Minton, Morgan Kaufmann, San Mateo, CA (July 1993).
5. A.M. Segre, "Learning How to Plan," pp. 93-111, in *Towards Learning Robots*, ed. W. Van de Velde, MIT Press, Cambridge, MA (September 1993).
6. M. Koppel, A.M. Segre, and R. Feldman, "An Integrated Framework for Knowledge Representation and Theory Revision," pp. 95-113, in *Machine Learning and Knowledge Acquisition: Integrated Approaches*, ed. G. Tecuci and Y. Kodratoff, Academic Press, New York, NY (October 1995).

#### *Other Articles*

1. A.M. Segre, "Explanation-Based Learning for Machines," *Engineering: Cornell Quarterly* **23**(4), pp. 8-14 (Summer 1989).
2. A.M. Segre, "Artificial Intelligence," p. 564, in *Peterson's Guide to Graduate Programs in Engineering and Applied Sciences, 1993* **5**, Peterson's Guides, Princeton, NJ (November 1992).
3. A.M. Segre, "The Ninth International Conference on Machine Learning," *Artificial Intelligence Magazine*, pp. 16-17 (Summer 1993).
4. A. Bernasconi and A.M. Segre, "Ab Initio Methods for Protein Structure Prediction: A New Technique Based on Ramachandran Plots," *ERCIM News*(43), pp. 13-14 (October 2000).

#### *Theses*

1. A.M. Segre, "A System for the Production of Phoneme Strings from Unmarked English Texts," M.S. Thesis, Department of Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, Urbana, IL (January 1983).
2. A.M. Segre, "Explanation-Based Learning of Generalized Robot Assembly Plans," Ph.D. Thesis, Department of Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, Urbana, IL (January 1987).

#### *Conference and Workshop Papers*

1. A.M. Segre, "A System for the Generation of Four Voice Chorale Style Counterpoint Using Artificial Intelligence Techniques," *Proceedings of the Quarto Colloquio di Informatica Musicale*, pp. 231-252, Pisa, Italy (July 1981).
2. A.M. Segre, B.A. Sherwood, and W. Dickerson, "An Expert System for the Production of Phoneme Strings from Unmarked English Texts Using Machine Induced Rules," *Proceedings of the First Conference of the European Chapter of the Association for Computational Linguistics*, pp. 35-42, Urbana, IL (September 1983).

3. A.M. Segre and G.F. DeJong, "Explanation-Based Manipulator Learning: Acquisition of Planning Ability Through Observation," *Proceedings of the IEEE International Conference on Robotics and Automation*, pp. 555-560, St. Louis, MO (March 1985).
4. A.M. Segre, "Explanation-Based Manipulator Learning," *Proceedings of the Third International Machine Learning Workshop*, pp. 183-185, Skytop, PA (June 1985).
5. A.M. Segre and G.F. DeJong, "From Hardware to Hardware: Towards Intelligent Assembly Robots," *American Society for Engineering Education NCS-II*, pp. 172-185, Dayton, OH (October 1985).
6. A.M. Segre, "A Learning Apprentice System for Mechanical Assembly," *Proceedings of the IEEE International Conference on the Applications of Artificial Intelligence*, pp. 112-117, Orlando, FL (February 1987).
7. A.M. Segre, "On the Operationality/Generality Trade-Off in Explanation-Based Learning," *Proceedings of the Tenth International Joint Conference on Artificial Intelligence*, pp. 242-248, Milan, Italy (August 1987).
8. A.M. Segre, "Operationality and Real-World Plans," *Working Notes of the 1988 AAAI Symposium on Explanation-Based Learning*, pp. 158-163, Palo Alto, CA (March 1988).
9. J. Turney and A.M. Segre, "SEPIA: An Experiment in Integrated Planning and Improvisation," *Working Notes of the 1989 AAAI Symposium on Planning and Search*, pp. 59-63, Palo Alto, CA (March 1989).
10. A.M. Segre, "The Compleat EBLer: A Provably Complete Family of EBL Algorithms," *Working Notes of the ONR Workshop on Knowledge Acquisition*, pp. 26-32, Crystal City, VA (November 1989).
11. F. Ropelato, A.M. Segre, and G. Jacucci, "Integrating Planning and Improvisation in Uncertain Domains," *Second International Conference on Advanced Manufacturing Systems and Technology*, pp. 461-471, Trento, Italy (June 1990).
12. R. Feldman, A.M. Segre, and M. Koppel, "Incremental Refinement of Approximate Domain Theories," *Proceedings of the Eighth International Machine Learning Workshop*, pp. 500-504, Evanston, IL (June 1991).
13. R. Feldman, A.M. Segre, and M. Koppel, "Refinement of Approximate Rule Bases," *Proceedings of the World Congress on Expert Systems*, pp. 615-622, Orlando, FL (December 1991).
14. R. Feldman, M. Koppel, and A.M. Segre, "Probabilistic Revision of Relational Theories," *Working Notes of the 1992 AAAI Symposium on Knowledge Assimilation*, pp. 51-61, Palo Alto, CA (March 1992).
15. A.M. Segre and J. Turney, "SEPIA: A Resource-Bounded Adaptive Agent," *Proceedings of the First International Conference on Artificial Intelligence Planning Systems*, pp. 303-304, College Park, MD (June 1992).
16. A.M. Segre, "On Combining Multiple Speedup Techniques," *Proceedings of the Ninth International Machine Learning Conference*, pp. 400-405, Aberdeen, Scotland (July 1992).
17. R. Feldman, M. Koppel, and A.M. Segre, "Probabilistic Revision of Propositional Domain Theories," *Proceedings of the Ninth Israeli Symposium on Artificial Intelligence and Computer Vision*, pp. 131-146, Information Processing Association of Israel, Ramat Gan, Israel (December 1992).
18. A.M. Segre, D.B. Sturgill, and J. Turney, "Neoclassical Planning," *Working Notes of the 1993 AAAI Symposium on the Foundations of Automatic Planning*, pp. 127-131, Palo Alto, CA (March 1993).

19. R. Feldman, M. Koppel, and A.M. Segre, "The Relevance of Bias in the Revision of Approximate Domain Theories," *Working Notes of the 1993 IJCAI Workshop on Machine Learning and Knowledge Acquisition: Common Issues, Contrasting Methods, and Integrated Approaches*, pp. 44-60, Chambery, France (August 1993).
20. M. Koppel, R. Feldman, and A.M. Segre, "Theory Revision Using Noisy Exemplars," *Proceedings of the Tenth Israeli Symposium on Artificial Intelligence and Computer Vision*, pp. 96-107, Ramat Gan, Israel (December 1993).
21. R.J. Calistri-Yeh and A.M. Segre, "The Design of ALPS: An Adaptive Learning and Planning System," *Proceedings of the Second International Conference on Artificial Intelligence Planning Systems*, pp. 207-212, Chicago, IL (June 1994).
22. D.B. Sturgill and A.M. Segre, "A Novel Asynchronous Parallelization Scheme for First-Order Logic," *Proceedings of the Twelfth Conference on Automated Deduction*, pp. 484-498, Nancy, France (June 1994).
23. M. Koppel, A.M. Segre, and R. Feldman, "Getting the Most from Flawed Theories," *Proceedings of the Eleventh International Machine Learning Conference*, pp. 139-147, New Brunswick, NJ (July 1994).
24. A.M. Segre and D.B. Sturgill, "Using Hundreds of Workstations to Solve First-Order Logic Problems," *Proceedings of the Twelfth National Conference on Artificial Intelligence*, pp. 187-192, Seattle, WA (July 1994).
25. R.J. Calistri-Yeh, A.M. Segre, and D. Sturgill, "The Peaks and Valleys of ALPS: An Adaptive Learning and Planning System for Transportation Scheduling," *Advanced Planning Technology: Technological Achievements of the ARPA/Rome Laboratory Planning Initiative*, pp. 89-96 (May 1996).
26. S. Kim and A.M. Segre, "A Parallel Sequence Assembly Algorithm (Abstract)," *The Fourth International Conference on Computational Biology: Intelligent Systems for Molecular Biology* (June 1996).
27. G.J. Gordon and A.M. Segre, "Nonparametric Statistical Methods for Experimental Evaluations of Speedup Learning," *Proceedings of the Thirteenth International Machine Learning Conference*, pp. 200-206, Bari, Italy (July 1996).
28. S. Kim and A.M. Segre, "AMASS: A Structured Pattern Matching Approach to Shotgun Sequence Assembly (Poster)," *Olga G. Nalbandov Bioinformatics Symposium*, Beckman Institute, University of Illinois at Urbana-Champaign, Urbana, IL (May 1997).
29. J. Zhang and A.M. Segre, "An Algorithm for HIV Linkage Discovery (Poster)," *Olga G. Nalbandov Bioinformatics Symposium*, Beckman Institute, University of Illinois at Urbana-Champaign, Urbana, IL (May 1997).
30. W. Lam and A.M. Segre, "Distributed Data Mining of Probabilistic Knowledge," *Proceedings of the 17th IEEE International Conference on Distributed Computing Systems*, pp. 178-185, Baltimore, MD (May 1997).
31. W. Lam and A.M. Segre, "A Distributed Solution for Discovering Large-Scale Bayesian Networks," *Workshop on Parallel and Distributed Data Mining*, Melbourne, Australia (April 1998).
32. D. Janvrin and A.M. Segre, "AFORM: A New Audit Approach to Meet the Challenges of Systems Reliability Assurance," *Proceedings of the Seventh Annual Research Workshop on Artificial Intelligence and Emerging Technologies in Accounting, Auditing and Tax* (August 1998).

33. H.J. Paarsch and A.M. Segre, "Extending the Computational Horizon: Effective Distributed Resource-Bounded Computation for Intractable Problems," *Fifth International Conference of the Society for Computational Economics* (June 24-26 1999).
34. S. Forman and A.M. Segre, "HOPS: Hybrid Optimizer of Protein Structure (Poster)," *Second Georgia Tech International Conference on Bioinformatics: In Silico Biology* (November 1999).
35. S. Forman and A.M. Segre, "HOPS: Hybrid Optimizer of Protein Structure (Poster)," *106th Meeting of the American Mathematical Society* (January 2000).
36. S. Forman and A.M. Segre, "NAGSAT: A Randomized, Complete, Parallel Solver for 3SAT," *Fifth International Symposium on the Theory and Applications of Satisfiability Testing*, pp. 236-243, Cincinnati, OH (May 2002).
37. K.T. Phillips and A.M. Segre, "Bayesian Classification of Respiratory Disease and Asthma with Administrative Data Sets," *Proceedings of the AMIA Annual Symposium*, p. 1170 (October 2002).
38. M. Govil, A.M. Segre, M.W. Logue, and V.J. Vieland, "MLIP: Parallel Computation of LOD Scores Enabling Full Exploration of the Trait-Parameter Space (Poster)," *53rd Annual Meeting of the American Society for Human Genetics* (November 2003).
39. J. Park, M.W. Logue, J. Ni, J. Cremer, A.M. Segre, and V.J. Vieland, "Scientific Visualization of Multidimensional Data: Genetic Likelihood Visualization," *Proceedings of the International Conference on High Performance Computing and Applications*, pp. 157-161, Shanghai, P.R. China (August 2004). Reprinted in *Current Trends in High Performance Computing and its Applications*, Springer (2005), pp. 403-408.
40. M.W. Logue, J. Park, J. Ni, J. Cremer, A.M. Segre, B. Knosp, S. Beck, and V.J. Vieland, "Interactive Visualization Tools for Genetic Data (Abstract)," *54th Annual Meeting of the American Society for Human Genetics* (November 2004).
41. V. Shimanovich and A.M. Segre, "Applying Optimization to the Soft Protein Docking Problem (Abstract)," *Hawaii International Conference on Statistics, Mathematics and Related Fields* (January 2005).
42. J.W. Park, J.F. Cremer, A.M. Segre, M.W. Logue, and V.J. Vieland, "Visual Exploration of Genetic Likelihood Space," *Proceedings of the ACM Symposium on Applied Computing*, pp. 1335-1340, Dijon, France (April 2006).
43. Y. Liu, A.M. Segre, and S. Wang, "A High Throughput Approach to Combinatorial Search on Grids," *Proceedings of the 15th IEEE International Symposium on High Performance Distributed Computing*, pp. 351-352 (June 2006).
44. H. Wang, A.M. Segre, Y. Huang, J. O'Connell, and V.J. Vieland, "Fast Computation of Large Numbers of LOD Scores for Genetic Linkage Analysis (Abstract)," *56th Annual Meeting of the American Society for Human Genetics* (November 2006).
45. Y. Huang, A.M. Segre, J.R. O'Connell, H. Wang, and V.J. Vieland, "KELVIN: A 2nd Generation Distributed Multiprocessor Linkage and Linkage Disequilibrium Analysis Program (Abstract)," *56th Annual Meeting of the American Society for Human Genetics* (November 2006).
46. M. Logue, J.W. Park, J. Cremer, A.M. Segre, and V.J. Vieland, "Exploiting Genetic Model Information to Identify Homogenous Pedigrees (Abstract)," *56th Annual Meeting of the American Society for Human Genetics* (November 2006).
47. A.M. Segre, A. Wildenberg, V.J. Vieland, and Y. Zhang, "Privacy-Preserving Data Set Union," pp. 266-276, in *Proceedings of Privacy in Statistical Databases 2006*, ed. J. Domingo-Ferrer and L. Franconi, Berlin (December 2006).

48. T. He, J. Ni, A.M. Segre, S. Wang, and B. Knosp, "SkipMard: A Multi-Attribute Peer-to-Peer Resource Discovery Approach," *Proceedings of the Second International Multisymposiums on Computer and Computational Sciences* **1**, pp. 266-273, IEEE Computer Society Press, Iowa City, IA (August 2007).
49. M. Govil, A.M. Segre, and V.J. Vieland, "MLIP: A Multiprocessor Linkage Analysis System," *Proceedings of the Second International Multisymposiums on Computer and Computational Sciences* **1**, pp. 17-24, IEEE Computer Society Press, Iowa City, IA (August 2007).
50. H. Wang, A.M. Segre, Y. Huang, J. O'Connell, and V.J. Vieland, "Fast Computation of Human Genetic Linkage," *Proceedings of the IEEE 7th International Symposium on Bioinformatics and Bioengineering*, pp. 857-863, Cambridge, MA (October 2007). [DOI:10.1109/bibe.2007.4375660].
51. D. Ezra Sidran and A.M. Segre, "Implementing the Five Canonical Offensive Maneuvers in a CGF Environment," *Fall Simulation Interoperability Workshop* (September 2007).
52. T.R. Clancy, C.W. Delaney, A.M. Segre, K. Carley, A. Kuziak, and H. Yu, "Predicting the Impact of an Electronic Health Record on Practice Patterns Using Computational Modeling and Simulation," *Proceedings of the AMIA Annual Symposium*, pp. 145-149 (October 2007). [PMID: 18693815][PMCID: PMC21573238].
53. Y. Huang, C.W. Bartlett, A.M. Segre, J.R. O'Connell, L.A. Mangin, and V.J. Vieland, "Exploiting Gene x Gene Interaction in Linkage Analysis," *BMC Proceedings of the 15th Genetic Analysis Workshop* **1**(S1), p. S64 (November 2007). [PMID: 18466565][PMCID: PMC2367485].
54. H. Wang, A.M. Segre, Y. Huang, J. O'Connell, and V.J. Vieland, "Rapid Computation of Large Numbers of LOD Scores in Linkage Analysis Through Polynomial Expression of Genetic Likelihoods," *IEEE Workshop on High-Throughput Data Analysis for Proteomics and Genomics*, Silicon Valley, CA (November 2007). [DOI:10.1109/bibmw.2007.4425419].
55. P.M. Polgreen, T.L. Tassier, S.V. Pemmaraju, and A.M. Segre, "An Application of Social Network Theory to Optimize Influenza Vaccination Among Healthcare Workers (Abstract)," *International Conference on Emerging Infectious Diseases* (March 16-19, 2008).
56. P.M. Polgreen, Z. Chen, A.M. Segre, M.A. Pentella, and G. Rushton, "Optimizing Influenza Sentinel Surveillance at the State Level (Abstract)," *International Conference on Emerging Infectious Diseases* (March 16-19, 2008).
57. A. Signorini, A. Gulli, and A.M. Segre, "Distributed Marketplaces Using P2P Networks and Public-Key Cryptography," *Proceedings Third International ICST Conference on Scalable Information Systems* (June 4-6, 2008).
58. Y. Huang, A.M. Segre, W.H. Valentine-Cooper, S.C. Seok, and V.J. Vieland, "KELVIN: A 2nd Generation Software Package for Computation of the PPL Framework (Abstract)," *58th Annual Meeting of the American Society for Human Genetics* (November 2008).
59. G.C. Fairchild, E. Chen, G. Rushton, A.M. Segre, and P.M. Polgreen, "Identifying Surveillance Site Locations in Iowa Using a Maximal Population Coverage Model (Poster)," *International Meeting on Emerging Diseases and Surveillance* (February 2009).
60. D.E. Curtis, S.V. Pemmaraju, C.S. Hlady, J.A. Fries, T. Herman, A.M. Segre, and P.M. Polgreen, "Vaccination Strategies for Healthcare Workers Based on Social Networks (Poster)," *International Meeting on Emerging Diseases and Surveillance* (February 2009).
61. C.S. Hlady, T.L. Tassier, A.M. Segre, T. Herman, S.V. Pemmaraju, and P.M. Polgreen, "Comparing the Length of Isolation Periods to Prevent the Nosocomial Spread of Mumps (Poster)," *International Meeting on Emerging Diseases and Surveillance* (February 2009).

62. P.M. Polgreen, F.D. Nelson, G.R. Neumann, A.M. Segre, J.A. Fries, and L.C. Madoff, "The Use of a Prediction Market to Predict H5N1 Avian Influenza (Poster)," *International Meeting on Emerging Diseases and Surveillance* (February 2009).
63. D. Ezra Sidran and A.M. Segre, "Algorithms for Generating Attribute Values for the Classification of Tactical Situations," *Military Modeling and Simulation Symposium* (March 2009).
64. D.E. Curtis, J.A. Fries, C.S. Hlady, G. Kanade, S.V. Pemmaraju, P.M. Polgreen, and A.M. Segre, "Health Care Workers' Social Networks Display Small World Properties: Implications for Disease Control (Abstract)," *Proceedings of the 19th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America*, San Diego, CA (March 2009).
65. J.A. Fries, C.S. Hlady, T. Herman, P.M. Polgreen, and A.M. Segre, "A Low-Cost Non-RFID Based Method for Automated Monitoring of Hand Hygiene Compliance (Poster)," *Proceedings of the 19th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America*, San Diego, CA (March 2009).
66. T. Herman, S.V. Pemmaraju, A.M. Segre, P.M. Polgreen, D.E. Curtis, J.A. Fries, C.S. Hlady, and M.A. Severson, "Wireless Applications for Hospital Epidemiology," *1st ACM International Workshop on Medical-Grade Wireless Networks*, pp. 45-50, New Orleans, LA (May 18, 2009).
67. D.E. Curtis, G. Kanade, S.V. Pemmaraju, P.M. Polgreen, and A.M. Segre, "Analysis of Hospital Healthcare Worker Contact Networks," *5th United Kingdom Social Networks Conference*, Greenwich, UK (July 3-5, 2009).
68. A. Signorini, A.M. Segre, and P.M. Polgreen, "The Use of Twitter to Track Public Concerns About Novel H1N1 Influenza (Poster)," *47th Annual Meeting of the Infectious Disease Society of America*, Philadelphia, PA (October 29, 2009).
69. C.S. Hlady, D.E. Curtis, M.A. Severson, J.A. Fries, S.V. Pemmaraju, A.M. Segre, T. Herman, and P.M. Polgreen, "A Near-Real-Time Method for Discovering Healthcare Worker Social Networks Via Wireless Devices (Poster)," *47th Annual Meeting of the Infectious Disease Society of America*, Philadelphia, PA (October 29, 2009).
70. C.S. Hlady, M.A. Severson, D.E. Curtis, J.A. Fries, S.V. Pemmaraju, A.M. Segre, T. Herman, and P.M. Polgreen, "A Free iPhone Application for Recording Hand Hygiene Rates (Poster)," *47th Annual Meeting of the Infectious Disease Society of America*, Philadelphia, PA (October 29, 2009).
71. P.M. Polgreen, M.A. Severson, G.C. Fairchild, A.M. Segre, G. Rushton, and E.C. Leira, "Approaching Optimization for the Location of Primary Stroke Centers at a State Level (Abstract)," *International Stroke Conference* (February 2010).
72. C.S. Hlady, J.A. Fries, D.E. Curtis, A.M. Segre, M.A. Severson, and P.M. Polgreen, "iScrub Online: A System for Standardized Hand-Hygiene Observation and Feedback (Poster)," *Proceedings of the 20th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America*, San Diego, CA (March 2010).
73. D.E. Curtis, C.S. Hlady, S.V. Pemmaraju, A.M. Segre, and P.M. Polgreen, "Social Network Influence on Vaccination Uptake Among Healthcare Workers," *Proceedings of the 20th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America*, San Diego, CA (March 2010).
74. D.E. Curtis, P.M. Polgreen, L.A. Polgreen, S.V. Pemmaraju, and A.M. Segre, "Peer Effects and Influenza Vaccination Among Healthcare Workers," *3rd Biennial Conference of the American Society of Health Economists* (June 2010).
75. S. Babu, J. Bertrand, P.M. Polgreen, and A.M. Segre, "Virtual Agents Based Simulation for Training Healthcare Workers in Hand Hygiene Procedures," *Proceedings of the 10th International Conference*

on *Intelligent Virtual Agents*, <http://iva.2010.org/> (September 2010).

76. D.E. Curtis, C.L. Hlady, S.V. Pemmaraju, P.M. Polgreen, and A.M. Segre, "Modeling and Estimating the Spatial Distribution of Healthcare Workers," *1st ACM International Conference on Health Informatics* (November 2010).
77. T. Hansen, J.P. Hourcade, A.M. Segre, C.S. Hlady, P.M. Polgreen, and C. Wyman, "Interactive Visualization of Hospital Contact Network Data on Multi-Touch Displays," *Third Mexican Workshop on Human Computer Interaction* (November 2010).
78. T.L. Tassier, P.M. Polgreen, and A.M. Segre, "Targeted Vaccine Subsidies for Healthcare Workers," *The Computational Social Science Society of the Americas Annual Conference*, Tempe, AZ (November 2010).
79. A. Signorini, P.M. Polgreen, and A.M. Segre, "Using Twitter to Estimate H1N1 Influenza Activity," *2010 International Society for Disease Surveillance Conference* (December 2010). [DOI:10.3134/ehj.10.113].
80. J. Paton, F. Nelson, A.M. Segre, and P.M. Polgreen, "Samos: A Community-Driven Open-Access Prediction Market System (Poster)," *2010 International Society for Disease Surveillance Conference* (December 2010).
81. G.C. Fairchild, A.M. Segre, P.M. Polgreen, and G. Rushton, "Evaluating the Performance of Two Alternative Geographic Surveillance Schemes," *2010 International Society for Disease Surveillance Conference* (December 2010).
82. J.A. Fries, A.M. Segre, L.A. Polgreen, and P.M. Polgreen, "The Use of Craigslist Posts for Risk Behavior and STI Surveillance," *2010 International Society for Disease Surveillance Conference* (December 2010).
83. J.A. Fries, A.T.Y. Ho, A.M. Segre, and P.M. Polgreen, "Using Craigslist Messages for Syphilis Surveillance (Poster)," *International Meeting on Emerging Diseases and Surveillance* (February 2011).
84. J. Paton, F. Nelson, A.M. Segre, and P.M. Polgreen, "Samos: A Community-Driven Open-Access Prediction Market System (Poster)," *International Meeting on Emerging Diseases and Surveillance* (February 2011).
85. D. Naylor, T. Hornbeck, A.M. Segre, and P.M. Polgreen, "Analyzing the Impact of Superspreading Using Hospital Contact Networks (Poster)," *International Meeting on Emerging Diseases and Surveillance* (February 2011).
86. C.S. Hlady, D.E. Curtis, J.A. Fries, M. Yang, A.M. Segre, and P.M. Polgreen, "iScrub: A Pilot Intervention with Feedback from a Companion Website," *21st Annual Scientific Meeting of the Society for Healthcare Epidemiology of America*, Dallas, TX (March 2011).
87. D.E. Curtis, T. Herman, G.W. Thomas, A.M. Segre, and P.M. Polgreen, "Contact Patterns for Healthcare Workers: Not Everyone is the "Average" (Poster)," *21st Annual Scientific Meeting of the Society for Healthcare Epidemiology of America*, Dallas, TX (March 2011).
88. J.A. Fries, S. Tolentino, G.W. Thomas, T. Herman, A.M. Segre, and P.M. Polgreen, "Monitoring Hand Hygiene via Human Observers: How Should We Be Sampling?" *21st Annual Scientific Meeting of the Society for Healthcare Epidemiology of America*, Dallas, TX (March 2011).
89. J. Bertrand, S. Babu, M. Gupta, A.M. Segre, and P.M. Polgreen, "A 3D Virtual Reality Hand Hygiene Compliance Training Simulator (Poster)," *21st Annual Scientific Meeting of the Society for Healthcare Epidemiology of America*, Dallas, TX (March 2011).

90. T. Hornbeck, A.M. Segre, G.W. Thomas, T. Herman, and P.M. Polgreen, "On Hand Hygiene Compliance and Diminishing Marginal Returns: An Empirically-Driven Agent-Based Simulation Study," *Computational Social Science Society of the Americas Annual Conference* (November 2011).
91. G.W. Thomas, P.M. Polgreen, T. Herman, D. Sharma, B. Johns, H. Chen, G. Scranton, D. Naylor, M. Ireland, T. McCarty, T. Decker, and A.M. Segre, "Improving Patient Safety with Hand Hygiene Compliance Monitoring," *55th Annual Meeting of the Human Factors and Ergonomics Society* (September 2011).
92. D.E. Curtis, P.M. Polgreen, S.V. Pemmaraju, and A.M. Segre, "The Systematic Bias of Random Graphs in Modeling Disease Spread Dynamics (Poster)," *Epidemics<sup>3</sup>: The Third International Conference on Infectious Disease Dynamics* (November 2011).
93. P. Rhomberg, P.M. Polgreen, and A.M. Segre, "Comparing Agent-Based and Continuous Compartmental Epidemiology Models (Poster)," *Epidemics<sup>3</sup>: The Third International Conference on Infectious Disease Dynamics* (November 2011).
94. G.C. Fairchild, A.M. Segre, G. Rushton, E. Foster, and P.M. Polgreen, "Comparing Methods for Sentinel Surveillance Site Placement," *2011 International Society for Disease Surveillance Conference* (December 2011).
95. J.A. Fries, D.E. Curtis, A.M. Segre, and P.M. Polgreen, "Who Should We Be Listening to? Applying Models of Authority to Detecting Emerging Topics on the EIN," *2011 International Society for Disease Surveillance Conference* (December 2011).
96. T. McCarty, E. Foster, A.M. Segre, and P.M. Polgreen, "Changes to Alcohol-Related Travel Behavior Due to an Under 21 Ordinance (Poster)," *2011 International Society for Disease Surveillance Conference* (December 2011).
97. A. Signorini, P.M. Polgreen, and A.M. Segre, "Inferring Travel From Social Media," *2011 International Society for Disease Surveillance Conference* (December 2011).
98. S. Tolentino, S.V. Pemmaraju, P.M. Polgreen, A.T.Y. Ho, M.N. Monsalve, and A.M. Segre, "Changes in the Spatial Distribution of Syphilis," *2011 International Society for Disease Surveillance Conference* (December 2011).
99. M. Gupta, J. Bertrand, S. Babu, P.M. Polgreen, and A.M. Segre, "An Evolving Multi-Agent Scenario Generation Framework for Simulations in Preventive Medicine Education," *2nd ACM International Conference on Health Informatics* (January 2012).
100. J.A. Fries, A.M. Segre, and P.M. Polgreen, "Using Online Classified Ads to Identify the Geographic Footprints of Anonymous, Casual Sex-Seeking Individuals," *Proceedings of the ASE/IEEE International Conference on Social Computing* (September 2012).
101. T. Herman, M.N. Monsalve, S.V. Pemmaraju, P.M. Polgreen, A.M. Segre, D. Sharma, and G.W. Thomas, "Inferring Realistic Intra-Hospital Contact Networks Using Link Prediction and Computer Logins (Poster)," *Proceedings of the ASE/IEEE International Conference on Social Computing* (September 2012).
102. J.A. Fries, A.M. Segre, and P.M. Polgreen, "Towards Linking Anonymous Authorship in Casual Sexual Encounter Ads (Poster)," *2012 International Society for Disease Surveillance Conference* (December 2012). [PMCID: PMC3692814].
103. J. Furgason, P.M. Polgreen, and A.M. Segre, "Near Real-Time Electronic Feedback to Improve Hand Hygiene Adherence (Poster)," *Association for Professionals in Infection Control and Epidemiology 41st Annual Conference, Anaheim, CA* (June 2014).



104. J.A. Fries, P.M. Polgreen, and A.M. Segre, "Mining the Demographics of Craigslist Casual Sex Ads to Inform Public Health Policy," *IEEE International Conference on Healthcare Informatics*, Verona, Italy (September, 2014). [DOI:10.1109/ichi.2014.16].
105. G.C. Fairchild, S. DelValle, L. DeSilva, and A.M. Segre, "Eliciting Disease Data From Wikipedia Articles," *Proceedings International AAAI Conference Weblogs and Social Media*, pp. 26-33, Stanford, CA (May 2015). [PMID: 28721308][PMCID: PMC5511739][NIHMS: 875513].
106. N.J. Evans, L.J. Carr, L.A. Polgreen, A.M. Segre, and P.M. Polgreen, "An mHealth Intervention to Encourage Physical Activity (Poster)," *37th Annual Meeting of the Society for Behavioral Medicine*, Washington, DC (April 2016).
107. A.L. Gremaud, J.E. Simmering, S. Coe, N.J. Evans, L.A. Polgreen, J.F. Cremer, A.M. Segre, P.M. Polgreen, and L.J. Carr, "More than Just a Game? A Randomized Controlled Trial of Pokèmon Go on Physical Activity Habits (Poster)," *38th Annual Meeting of the Society for Behavioral Medicine* (April 2017).
108. A.L. Gremaud, J.E. Simmering, S. Coe, N.J. Evans, L.A. Polgreen, J.F. Cremer, A.M. Segre, P.M. Polgreen, and L.J. Carr, "MapTrek As a Mobile Health Game for Increasing Physical Activity Levels in Sedentary Office Workers (Poster)," *Fraternal Order of Eagles Diabetes Research Center Research Day* (April 24, 2017).
109. M.T. Lash, J. Slater, P.M. Polgreen, and A.M. Segre, "A Large-Scale Exploration of Factors Affecting Hand Hygiene Compliance Using Linear Predictive Models," *IEEE International Conference on Healthcare Informatics*, pp. 66-73, Park City, UT (August 2017). [DOI:10.1109/ichi.2017.12].
110. S. Pai, S.V. Pemmaraju, P.M. Polgreen, A.M. Segre, and D.K. Sewell, "Spatiotemporal Clustering of CDI at the University of Iowa Hospitals and Clinics (Abstract)," *Open Forum Infectious Diseases* 5(S1), pp. S188-189 (November 2018). [DOI:10.1093/ofid/ofy210.518].
111. S. Mullan, P.M. Polgreen, J. Femino, and A.M. Segre, "Deep Learning Identification of Ulcers in Plantar Foot Images (Poster)," *Fraternal Order of Eagles Diabetes Research Center Research Day* (February 25, 2019).
112. N.A. Bowman, L.A. Jarratt, L.A. Polgreen, T.W. Kruckeberg, and A.M. Segre, "A Novel Approach for Early Identification of "At-Risk" Students: Predicting College Success via Campus Dining (Abstract)," *American Educational Research Association Annual Meeting*, Toronto, Canada (April 2019).
113. N.A. Bowman, L.A. Jarratt, K.C. Culver, and A.M. Segre, "The Impact of Pair Programming on Interest, Perceptions, and Achievement in Computer Science (Abstract)," *American Educational Research Association Annual Meeting*, Toronto, Canada (April 2019).
114. S.M. Tabish, P.M. Polgreen, A.M. Segre, and P. Srinivasan, "Identifying *De Facto* Prescription Norms in a Hospital Setting: A Study with Antibiotics," *IEEE International Conference on Healthcare Informatics*, pp. 1-11 (June 2019). [DOI:10.1109/ichi.2019.8904497].
115. L. Jarratt, N.A. Bowman, K.C. Culver, and A.M. Segre, "A Large-Scale Experimental Study of Gender and Pair Composition in Pair Programming," *ACM Conference on Innovation and Technology in Computer Science Education*, pp. 176-181 (July 2019). [DOI:10.1145/3304221.3319782].
116. N.A. Bowman, L. Jarratt, K.C. Culver, and A.M. Segre, "How Prior Programming Experience Affects Students' Pair Programming Experiences and Outcomes," *ACM Conference on Innovation and Technology in Computer Science Education*, pp. 170-175 (July 2019).

[DOI:10.1145/3304221.3319781].

117. H. Jang, S. Justice, P.M. Polgreen, A.M. Segre, D.K. Sewell, and S.V. Pemmaraju, "Evaluating Architectural Changes to Alter Pathogen Dynamics in a Dialysis Unit," *Proceedings of the IEEE/ACM International Conference on Advances in Social Network Analysis and Mining* (August 27-30, 2019). [DOI:10.1145/3341161.3343515].
118. T. Riaz, A. Kharkar, N. Khan, P.M. Polgreen, A.M. Segre, D.K. Sewell, and S.V. Pemmaraju, "Highly Local CDI Pressures As Risk Factors for CDI (Poster)," To appear in: *Decennial 2020: 6th International Conference on Healthcare Associated Infections*, Atlanta, GA (March 2020).
119. A.R. Miller, A.M. Segre, D.K. Sewell, S.V. Pemmaraju, and P.M. Polgreen, "Patients Discharged From Hospitals Without a *Clostridioides difficile* Infection Increase the Risk of CDI in Family Members," To appear in: *Decennial 2020: 6th International Conference on Healthcare Associated Infections*, Atlanta, GA (March 2020).
120. D.K. Sewell, S. Justice, A. Hahn, S.V. Pemmaraju, A.M. Segre, and P.M. Polgreen, "Estimating the Impact of County Boundaries on State-Wide Patient-Sharing Network Models (Poster)," To appear in: *Decennial 2020: 6th International Conference on Healthcare Associated Infections*, Atlanta, GA (March 2020).
121. D.K. Sewell, S. Justice, S.V. Pemmaraju, A.M. Segre, and P.M. Polgreen, "Exploring the Potential Limitations of Using Medicare Data to Study the Spread of Infections From Hospital Transfers (Poster)," To appear in: *Decennial 2020: 6th International Conference on Healthcare Associated Infections*, Atlanta, GA (March 2020).
122. A. Kharkar, D.M. Hasibul Hasan, P.M. Polgreen, A.M. Segre, D.K. Sewell, and S.V. Pemmaraju, "Naturally Emerging Cohorting Behavior of Healthcare Workers and its Implication on Disease Spread (Poster)," To appear in: *Decennial 2020: 6th International Conference on Healthcare Associated Infections*, Atlanta, GA (March 2020).
123. D.M. Hasibul Hasan, P.M. Polgreen, A.M. Segre, J. Simmering, and S.V. Pemmaraju, "Mining Camera Traces to Estimate Interactions Between Healthcare Workers and Patients," To appear in: *Decennial 2020: 6th International Conference on Healthcare Associated Infections*, Atlanta, GA (March 2020).
124. J.Z. Liang, H. Jang, D.M. Hasibul Hasan, P.M. Polgreen, S.V. Pemmaraju, and A.M. Segre, "Using Data Collected From a Commercial Sensor System to Inform Mathematical Models of Healthcare Associated Infections (Poster)," To appear in: *Decennial 2020: 6th International Conference on Healthcare Associated Infections*, Atlanta, GA (March 2020).
125. A.R. Miller, A.M. Segre, and P.M. Polgreen, "Risk of Hospital-Onset *C. Difficile* Infection Increases with Prior Inpatient and Outpatient Visits (Poster)," To appear in: *Decennial 2020: 6th International Conference on Healthcare Associated Infections*, Atlanta, GA (March 2020).
126. N.A. Bowman, L.A. Jarratt, K.C. Culver, and A.M. Segre, "(Mis)Match of Students' Country of Origin and the Impact of Collaborative Learning in Computer Science," *American Society for Engineering Education Annual Conference and Exposition*, Montreal, Canada (June 2020).
127. H. Jang, P.M. Polgreen, A.M. Segre, D.K. Sewell, and S.V. Pemmaraju, "A Data-Driven Approach to Identifying Asymptomatic *C. diff.* Cases," To appear in: *EpiDAMIK* (August 2020).

### *Technical Reports*

1. A.M. Segre, "On the Operationality/Generality Trade-Off in Explanation-Based Learning," Technical Report 87-830, Department of Computer Science, Cornell University, Ithaca, NY (August 1987).
2. J. Turney and A.M. Segre, "A Framework for Learning in Planning Domains with Uncertainty," Technical Report 89-1009, Department of Computer Science, Cornell University, Ithaca, NY (May 1989).
3. C.P. Elkan and A.M. Segre, "Not the Last Word on EBL Algorithms," Technical Report 89-1010, Department of Computer Science, Cornell University, Ithaca, NY (May 1989).
4. A.M. Segre, C.P. Elkan, and A. Russell, "On Valid and Invalid Methodologies for Experimental Evaluations of EBL," Technical Report 90-1126, Department of Computer Science, Cornell University, Ithaca, NY (May 1990).
5. R.J. Calistri-Yeh and A.M. Segre, "The Design of ALPS: An Adaptive Architecture for Transportation Planning," Technical Report TM-93-0010, Odyssey Research Associates, Ithaca, NY (April 1993).
6. A.M. Segre, "Evaluating Adaptive Inference," Technical Report TM-93-0044, Odyssey Research Associates, Ithaca, NY (September 1993).
7. R.J. Calistri-Yeh and A.M. Segre, "Software Design Document for the Adaptive Learning and Planning System (Version 1.0)," Technical Report TM-93-0049, Odyssey Research Associates, Ithaca, NY (October 1993).
8. R.J. Calistri-Yeh and A.M. Segre, "Software User's Manual for the Adaptive Learning and Planning System (Version 1.0)," Technical Report TM-93-0051, Odyssey Research Associates, Ithaca, NY (October 1993).
9. R.J. Calistri-Yeh and A.M. Segre, "ALPS Year 1 Annual Report," Technical Report TM-94-0011, Odyssey Research Associates, Ithaca, NY (February 1994).
10. R.J. Calistri-Yeh and A.M. Segre, "Software User's Manual for the Adaptive Learning and Planning System (Version 1.1)," Technical Report TM-94-0020, Odyssey Research Associates, Ithaca, NY (March 1994).
11. R.J. Calistri-Yeh and A.M. Segre, "Software Design Document for the Adaptive Learning and Planning System (Version 1.1)," Technical Report TM-94-0024, Odyssey Research Associates, Ithaca, NY (March 1994).
12. R.J. Calistri-Yeh and A.M. Segre, "ALPS Year 2 Annual Report," Technical Report TM-95-0013, Odyssey Research Associates, Ithaca, NY (February 1995).
13. D.B. Sturgill and A.M. Segre, "Nagging: A Distributed Adversarial Search-Pruning Technique Applied to First-Order Logic," Technical Report TM-96-0003, Odyssey Research Associates, Ithaca, NY (February 1996).
14. R.J. Calistri-Yeh, A.M. Segre, and D. Sturgill, "The Peaks and Valleys of ALPS: An Adaptive Learning and Planning System for Transportation Scheduling," Technical Report TM-96-0004, Odyssey Research Associates, Ithaca, NY (January 1996).
15. R.J. Calistri-Yeh and A.M. Segre, "ALPS Final Report," Technical Report TM-96-0005, Odyssey Research Associates, Ithaca, NY (February 1996).
16. R.J. Calistri-Yeh and A.M. Segre, "Software User's Manual for the Adaptive Learning and Planning System (Version 3.0)," Technical Report TM-96-0012, Odyssey Research Associates, Ithaca, NY (February 1996).

17. R.J. Calistri-Yeh and A.M. Segre, "Software Design Document for the Adaptive Learning and Planning System (Version 3.0)," Technical Report TM-95-0068, Odyssey Research Associates, Ithaca, NY (February 1996).
18. A.M. Segre, "Probabilistic Theory Revision," Technical Report TM-96-0013, Odyssey Research Associates, Ithaca, NY (February 1996).

*Miscellanea*

1. G.F. DeJong and A.M. Segre, "Explanation-Based Manipulator Learning: Endowing a Robot with Conceptual Power," Working Paper 52, AI Research Group, Coordinated Science Laboratory, University of Illinois at Urbana-Champaign, Urbana, IL (March 1984).
2. A.M. Segre, "Parallel Machines for Artificial Intelligence: A Survey of and Speculation about Massively Parallel Architectures," Working Paper 53, AI Research Group, Coordinated Science Laboratory, University of Illinois at Urbana-Champaign, Urbana, IL (April 1984).
3. G.F. DeJong, A.M. Segre, A. Ram, R. Mooney, and M. Edel, "A Natural Language Processor that Supports Learning," Working Paper 55, AI Research Group, Coordinated Science Laboratory, University of Illinois at Urbana-Champaign, Urbana, IL (March 1984).
4. A.M. Segre, "Robot Planning and Machine Learning: An Explanation-Based Approach to Robot Retraining," Working Paper 75, AI Research Group, Coordinated Science Laboratory, University of Illinois at Urbana-Champaign, Urbana, IL (April 1986).
5. A.M. Segre, "Explanation-Based Manipulator Learning: Acquiring Robotic Manufacturing Schemata," Working Paper 76, AI Research Group, Coordinated Science Laboratory, University of Illinois at Urbana-Champaign, Urbana, IL (April 1986).