

# Samuel A. Rebelsky

PROFESSOR OF COMPUTER SCIENCE

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## Research Interests

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### COMPUTER-SCIENCE EDUCATION

Particularly methods to broaden participation in computing, including media computation, computing for social good, digital liberal arts, and free and open source software

### COMPUTING FOR THE ARTS

Particularly algorithmic art and the application of functional programming techniques to media computation

## Education

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### University of Chicago

#### PH.D., COMPUTER SCIENCE

Dissertation: Tours, A System for Lazy Term-Based Communication

Advisor: Michael J. O'Donnell

June 1993

#### S.M., COMPUTER SCIENCE

March 1987

#### S.B., MATHEMATICS, w/honors

June 1985

## Professional Experience

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### Grinnell College

#### PROFESSOR

August 1997 to present

#### DIVISION CHAIR, Science Division

July 2009 to present

August 2006 to August 2008

#### CHAIR, Department of Computer Science

July 2014 to June 2017

July 2010 to July 2012

#### CHAIR, Technology Studies Concentration

January 2014 to June 2014

July 2009 to June 2010

July 2001 to August 2008

#### ASSOCIATE PROFESSOR

August 2002 to June 2009

#### DIRECTOR, Grinnell Laboratory for Interactive Multimedia Experimentation and Research

August 1997 to present

#### ASSISTANT PROFESSOR

August 1997 to July 2002

### University of Iowa

August 2018 to December 2018

#### FELLOW, Obermann Center for Advanced Studies

August 2018 to December 2018

### Dartmouth College

March 1993 to June 1997

#### ADJUNCT ASSISTANT PROFESSOR, Department of Computer Science

June 1997 to June 2000

#### ASSISTANT DIRECTOR, Dartmouth College Experimental Visualization Laboratory

January 1994 to June 1997

#### VISITING ASSISTANT PROFESSOR OF COMPUTER SCIENCE

March 1993 to June 1997

### University of Chicago

September 1985 to March 1993

#### INSTRUCTOR, University of Chicago Publishing Program

1990 to 1991

#### RESEARCH ASSISTANT, Michael J. O'Donnell

1987 to 1993

#### LECTURER, Mathematics

Summer 1986

#### LECTURER, Computer Science

1985 to 1987

## Honors

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HONORARY MEMBER, Grinnell College Class of 2017 One of two faculty members elected in 2017	2017
ACM SENIOR MEMBER	2013
OUTSTANDING GRINNELL EDUCATOR AWARD Awarded by the Grinnell Chamber of Commerce	2012
HONORARY MEMBER, Grinnell College Class of 2001 Elected at the 10th reunion of the Class of 2001	2011
OUTSTANDING PAPER AWARD, EdMedia 2002 World Conference on Educational Multimedia, Hypermedia, & Telecommunications	June 2002
OUTSTANDING PAPER AWARD, EdMedia 2000 World Conference on Educational Multimedia, Hypermedia, & Telecommunications	June 2000
PROJECT KALEIDOSCOPE FACULTY FOR THE TWENTY-FIRST CENTURY	May 2000
OUTSTANDING PAPER AWARD, EdMedia'96 World Conference on Multimedia and Hypermedia in Education	June 1996
COMMENDATION FOR CONTINUING COMMITMENT TO MENTORING WOMEN IN SCIENCE, Dartmouth Women in Science Program	1996
AWARD FOR OUTSTANDING CONTRIBUTIONS TO UNDERGRADUATE EDUCATION, Dartmouth Women in Science Program	1995

## Professional Activities

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### Memberships

ACM (ASSOCIATION OF COMPUTING MACHINERY) ACM Senior member since 2013. Lifetime member since 2015. Currently in special-interest groups SIGCAS (Computer And Society), SIGCSE (Computer Science Education), SIGGRAPH (Computer Graphics), and SIGWEB (Hypertext).	1988 to present
AAUP (AMERICAN ASSOCIATION OF UNIVERSITY PROFESSORS)	1994 to present
AACE (ASSOCIATION FOR THE ADVANCEMENT OF COMPUTERS IN EDUCATION)	1995 to 2007
SITI (SOFTWARE AND INFORMATION TECHNOLOGY OF IOWA, FORMERLY IOWA SOFTWARE ASSOCIATION)	1998 to 2003
INTERNET SOCIETY	1998 to 2004
CPSR (COMPUTER PROFESSIONALS FOR SOCIAL RESPONSIBILITY) Lifetime member.	1999 to present
IEEE COMPUTER SOCIETY	1999 to present
CUR (COUNCIL ON UNDERGRADUATE RESEARCH)	2000 to present
EFF (ELECTRONIC FRONTIER FOUNDATION)	2003 to present
SIGCIS (COMPUTERS, INFORMATION, AND SOCIETY/HISTORY)	2008 to present

### Leadership Positions

VICE CHAIR, ACM Special Interest Group on Computers and Society	July 2017 to present
GOOGLE ONLINE EDUCATION ADVISORY COMMITTEE	June 2015 to June 2017
CO-INFORMATION DIRECTOR, SIGCSE	March 2015 to present

### Journal Editorship

CONTRIBUTING EDITOR, <i>Journal of Universal Computer Science</i> (J.UCS)	1997 to 2006
EDITORIAL BOARD, <i>Journal of Network and Computer Applications</i> (J.NCA)	2001 to 2005
EDITORIAL REVIEW BOARD, <i>Webnet Journal of Internet Technologies, Applications &amp; Issues</i> Founding member	2002 to 2004
CO-EDITOR, <i>Journal of Multimedia Tools and Applications</i> , special issue on Electronic Multimedia Publishing 6(2)	1998

### Conference Program Committees

PROGRAM CO-CHAIR, EdMedia 2002 World Conference on Educational Multimedia, Hypermedia, and Telecommunications	2002
PROGRAM CO-CHAIR, DAGS95 Conference on Electronic Publishing and the Information Superhighway	1995
STEERING COMMITTEE, EdMedia World Conference on Educational Multimedia, Hypermedia, & Telecommunications	2002 to 2005

WORKSHOP/TUTORIAL CHAIR, EdMedia	1996, 1997, 1998, 1999, 2000, 2001
WORKSHOP/TUTORIAL CHAIR, Webnet World Conference of the WWW, Internet, and Intranet	1997, 1998, 1999, 2000, 2001
BIRDS-OF-A-FEATHER CHAIR, SIGCSE Symposium on Computer Science Education	2016
STUDENT PAPERS CHAIR, Consortium for Computing in Small Colleges, Midwest	1999
ASSOCIATE PROGRAM COMMITTEE, ACM SIGCSE Symposium on Computer Science Education	2011, 2014, 2015, 2016, 2017, 2018, 2019
ASSOCIATE PROGRAM COMMITTEE, ACM ITiCSE Conference on Innovation and Technology in Computer Science Education	2017
STUDENT VOLUNTEERS CHAIR, ACM SIGCSE Symposium on Computer Science Education	2018, 2019
PROGRAM COMMITTEE MEMBER, ACM Conference on Multimedia	1996
PROGRAM COMMITTEE MEMBER, 2nd Forum on Parallel Computing Curricula	1997
PROGRAM COMMITTEE MEMBER, DocEng, the ACM Symposium on Document Engineering	2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010
PROGRAM COMMITTEE MEMBER, EdMedia	1996 to 2009
PROGRAM COMMITTEE MEMBER, E-Learn World Conference on E-Learning	2002, 2003, 2004, 2005, 2006, 2007, 2008
PROGRAM COMMITTEE MEMBER, IEEE Multimedia Systems	1999
PROGRAM COMMITTEE MEMBER, Webnet World Conference	1997 to 2001
USER INTERFACE SUBCOMMITTEE MEMBER, World Wide Web Conference/WWW8	1999
LANGUAGES AND STANDARDS SUBCOMMITTEE MEMBER, World Wide Web Conference/WWW9	2000
MOBILITY SUBCOMMITTEE MEMBER, World Wide Web Conference/WWW10	2001

## Other Conference Activities

REFeree, ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE)	2005 to 2016, 2018
REFeree, ACM SIGCSE Symposium on Computer Science Education	1997 to 2010, 2012 to 2013
REFeree, ACM SIGCSE Symposium on Computer Science Education Student Research Competition	2013 to 2017
REFeree, ACM SIGCSE Symposium on Computer Science Education Birds-of-a-Feather Proposals	2018
REFeree, Central Plains Regional Conference of the Consortium for Computing in Small Colleges	1998, 2001
REFeree, EdMedia '95 Conference on Educational Multimedia and Hypermedia	1995
REFeree, International Conference on Rewriting Techniques and Applications	RTA-91/4th; RTA-93/5th
REFeree, New England Regional Conference of the Consortium for Computing in Small Colleges	1998, 1999, 2000, 2001
ELECTRONIC SUBMISSIONS COORDINATOR, DAGS95 (Electronic Publishing and the Information Superhighway)	1995
ELECTRONIC SUBMISSIONS COORDINATOR, FOCS'95 (IEEE Symposium on Foundations of Computer Science)	1995
ELECTRONIC SUBMISSIONS COORDINATOR, STOC'95 (ACM Symposium on the Theory of Computing)	1995
ELECTRONIC SUBMISSIONS COORDINATOR, SODA'96 (SIAM Symposium on Discrete Algorithms)	1996

## Grant Review Panels

NSF/DUE (Ad Hoc), Computer Science	Summer 2018, Fall 2018
NSF/DUE, Computer Science	January 2015, January 2016, March 2016
NSF/DUE CCLI (COURSE, CURRICULUM AND LABORATORY IMPROVEMENT), Computer Science	January 2005, March 2006
NSF CRI (COMPUTING RESEARCH INFRASTRUCTURE)	November 2005
NSF/DUE CCLI (COURSE, CURRICULUM AND LABORATORY IMPROVEMENT), Interdisciplinary	July 1999, July 2000
NSF/DUE ILI (INSTRUMENTATION AND LABORATORY IMPROVEMENT), Computer Science	January 1995, January 1996, January 1997

## Miscellaneous Professional Activities

TABLE LEADER, First AP CS Principles Reading	June 2017
STUDENT SCHOLARSHIP REVIEWER, Richard Tapia Celebration of Diversity in Computing	2016, 2017, 2018
STUDENT SCHOLARSHIP REVIEWER, Grace Hopper Celebration of Women in Computing	2013, 2014, 2015, 2016, 2017, 2018
REVIEWER, ACM Inroads	2013 to present
TEXTBOOK REVIEWER	1993 to present

Topics include Introductory Computer Science, Introductory Programming, Programming Languages and Compilers, Multimedia & Hypermedia, Software Design, and Bioinformatics  
Reviews for Addison-Wesley, Brooks Cole, CRC Press, International Thomson Press, Jones and Bartlett, PWS Publishing, Van Nostrand Reinhold, and West Educational Publishing

EXTERNAL REVIEWER, Washington and Lee Department of Computer Science

March 2017

EXTERNAL REVIEWER, Dickinson College Department of Mathematics and Statistics

February 2013

EXTERNAL REVIEWER, Colorado College Department of Mathematics and Computer Science

March 2005

SIGACT ELECTRONIC PUBLICATIONS BOARD

March 1994 to May 1998

Founding member

## Publications

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† denotes undergraduate co-authors. † denotes graduate student co-authors.

### Journal Articles

- [A6] HENRY M. WALKER AND SAMUEL A. REBELSKY. Using CS2013 for a department's curriculum review: a case study. *J. Comput. Sci. Coll.* 29, 5 (May 2014), 138–144.
- [A5] SARAH LUEBKE<sup>†</sup>, HILARY MASON<sup>†</sup>, AND SAMUEL A. REBELSKY. Annotating the World-Wide Web. *CSS Journal* 7, 5 (November/December 1999). Reprinted from [B14].
- [A4] SAMUEL A. REBELSKY, FILLIA MAKEDON, P. TAKIS METAXAS, JAMES FORD<sup>†</sup>, CHARLES B. OWEN<sup>†</sup>, AND PETER GLOOR. The roles of video in the design, development, and use of interactive conference proceedings. *Journal for Universal Computer Science* 4, 6 (June 1998), 604–628. An earlier version of this work was published as Dartmouth College Department of Computer Science Technical Report PCS-TR94-241, November 1994.
- [A3] JAMES FORD<sup>†</sup>, FILLIA MAKEDON, AND SAMUEL A. REBELSKY. Resource-limited hyper-reproductions. *Journal of Multimedia Tools and Applications* 6, 2 (1998), 181–197.
- [A2] SAMUEL A. REBELSKY. Evaluating and improving WWW-aided instruction. *Journal for Universal Computer Science* 2, 12 (December 1996), 829–841. An extended version of [B4] and [B6].
- [A1] SAMUEL A. REBELSKY. Designing interactive electronic conference proceedings. *IEEE Multimedia* (Summer 1995), 75–79.

### Refereed Conference Papers

- [B31] JANET L. DAVIS AND SAMUEL A. REBELSKY. Developing soft and technical skills through multi-semester, remotely mentored, community-service projects. In *Proceedings of the 50th ACM Technical Symposium on Computer Science Education* (2019), SIGCSE '19, ACM. Accepted for publication.
- [B30] YESHENG CHEN<sup>†</sup>, ZHEN CHEN<sup>†</sup>, SHYAMALA GUMIDYALA<sup>†</sup>, ANNABELLA KOURES<sup>†</sup>, SEOYEON LEE<sup>†</sup>, JAMES MSEKELA<sup>†</sup>, HALLE REMASH<sup>†</sup>, NOLAN SCHOENLE<sup>†</sup>, SARAH DAHLBY ALBRIGHT, AND SAMUEL A. REBELSKY. A middle-school code camp emphasizing digital humanities. In *Proceedings of the 50th ACM Technical Symposium on Computer Science Education* (2019), SIGCSE '19, ACM. Accepted for publication.
- [B29] CAELIN BRYANT<sup>†</sup>, YESHENG CHEN<sup>†</sup>, ZHEN CHEN<sup>†</sup>, JONATHAN GILMOUR<sup>†</sup>, SHYAMALA GUMIDYALA<sup>†</sup>, BEATRIZ HERCE-HAGIWARA<sup>†</sup>, ANNABELLA KOURES<sup>†</sup>, SEOYEON LEE<sup>†</sup>, JAMES MSEKELA<sup>†</sup>, ANH THU PHAM<sup>†</sup>, HALLE REMASH<sup>†</sup>, MARLI REMASH<sup>†</sup>, NOLAN SCHOENLE<sup>†</sup>, JONAH ZIMMERMAN<sup>†</sup>, SARAH DAHLBY ALBRIGHT, AND SAMUEL A. REBELSKY. Exploring the effects of a summer middle-school camp emphasizing data science and computing for social good. In *Proceedings of the 50th ACM Technical Symposium on Computer Science Education* (2019), SIGCSE '19, ACM. Accepted for publication.
- [B28] SARAH DAHLBY ALBRIGHT, TITUS H. KLINGE, AND SAMUEL A. REBELSKY. A functional approach to data science in CS1. In *Proceedings of the 49th ACM Technical Symposium on Computer Science Education* (2018), SIGCSE '18, ACM, pp. 1035–1040.
- [B27] ANITA DEWITT<sup>†</sup>, JULIA FAY<sup>†</sup>, MADELEINE GOLDMAN<sup>†</sup>, ELEANOR NICOLSON<sup>†</sup>, LINDA OYOLU<sup>†</sup>, LUKAS RESCH<sup>†</sup>, JOVAN MARTINEZ SALDAÑA<sup>†</sup>, SOULIDETH SOUNALATH<sup>†</sup>, TYLER WILLIAMS<sup>†</sup>, KATHRYN YETTER<sup>†</sup>, ELIZABETH ZAK<sup>†</sup>, NARREN BROWN, AND SAMUEL A. REBELSKY. Arts coding for social good: A pilot project for middle-school outreach. In *Proceedings of the 2017 ACM SIGCSE Technical Symposium on Computer Science Education* (2017), SIGCSE '17, ACM, pp. 159–164.
- [B26] SAMUEL A. REBELSKY, JANET DAVIS, AND JEROD WEINMAN. Building knowledge and confidence with mediascripting; a successful interdisciplinary approach to CS1. In *Proceedings of the 44th ACM technical symposium on Computer science education (SIGCSE '13)* (2013). An earlier version of this work appeared as [D7].

- [B25] SOREN BERG<sup>†</sup>, JANET DAVIS, AND SAMUEL A. REBELSKY. Mediascripting: Introductory computer science with a free and open-source graphics application. In *Free and Open Source Software (FOSS) Symposium 2009: Integrating FOSS into the Undergraduate Computing Curriculum*. (March 4, 2009).
- [B24] JANET DAVIS AND SAMUEL A. REBELSKY. Food-first computer science: Starting the first course right with pb&j. In *Proceedings of the 38th SIGCSE Technical Symposium on Computer Science Education* (Covington, Kentucky, USA, 2007), SIGCSE '07, ACM, pp. 372–376.
- [B23] SAMUEL MARTIN<sup>†</sup>, STEPHANE NYOMBAYIRE<sup>†</sup>, CASSANDRA SCHMITZ<sup>†</sup>, AND SAMUEL A. REBELSKY. Pedagogical applications and redesign of a web mediation infrastructure. In *Kommers and Richards [?]*, pp. 1717–1724.
- [B22] DEVIN LINDSEY<sup>†</sup> AND SAMUEL A. REBELSKY. Clio's worlds: 3d visualizations of student web usage. In *EdMedia 2005 World Conference on Educational Multimedia, Hypermedia, & Telecommunications* (Montreal, Quebec, Canada, 2005), P. Kommers and G. Richards, Eds., Association for the Advancement of Computing in Education, pp. 1269–1278.
- [B21] SAMUEL A. REBELSKY. The new science students in too much, too soon an abbreviated, accelerated, constructivist, collaborative, introductory experience in cs. In *Proceedings of the 36th SIGCSE Technical Symposium on Computer Science Education* (St. Louis, Missouri, USA, 2005), SIGCSE '05, ACM, pp. 312–316.
- [B20] ANGELA KMIEC<sup>†</sup>, MELISSA P. PINCHBACK<sup>†</sup>, AND SAMUEL A. REBELSKY. Summarizing links: Issues and interfaces. In *EdMedia 2002 World Conference on Educational Multimedia, Hypermedia, & Telecommunications* (Denver, Colorado, USA, June 24–29, 2002), P. Barker and S. A. Rebelsky, Eds., vol. 2, Association for the Advancement of Computing in Education, pp. 1005–1010. Received Outstanding Paper award.
- [B19] GREGORY FULLER<sup>†</sup>, JOSEPH SIMONSON<sup>†</sup>, ANANTA TIWARI<sup>†</sup>, AND SAMUEL A. REBELSKY. Clio's assistants: A tool suite for exploring student web usage. In *EdMedia 2002 World Conference on Educational Multimedia, Hypermedia, & Telecommunications* (Denver, Colorado, USA, June 24–29, 2002), P. Barker and S. A. Rebelsky, Eds., vol. 1, Association for the Advancement of Computing in Education, pp. 550–555.
- [B18] ANDREW KENSLER AND SAMUEL A. REBELSKY. Web raveler: An infrastructure for transforming hypermedia. In *EdMedia 2000 World Conference on Educational Multimedia, Hypermedia, & Telecommunications* (Montreal, Quebec, Canada, June 26–July 1, 2000), J. Bourdeau and R. Heller, Eds., Association for the Advancement of Computing in Education, pp. 479–484.
- [B17] CORINNE GLYNN<sup>†</sup>, RACHEL HECK<sup>†</sup>, SARAH LUEBKE<sup>†</sup>, WEICHAO MA<sup>†</sup>, HILARY MASON<sup>†</sup>, ERIN NICHOLS<sup>†</sup>, ELEANOR RAULERSON<sup>†</sup>, ISABEL STAICUT<sup>†</sup>, AND SAMUEL A. REBELSKY. Blazing trails on the world wide web. In *EdMedia 2000 World Conference on Educational Multimedia, Hypermedia, & Telecommunications* (Montreal, Quebec, Canada, June 26–July 1, 2000), J. Bourdeau and R. Heller, Eds., Association for the Advancement of Computing in Education, pp. 335–340. Received outstanding paper award.
- [B16] JARED SEAMAN<sup>†</sup>, VIVEK VENUGOPAL<sup>†</sup>, AND SAMUEL A. REBELSKY. Building and transforming educational web sites with satiric and contextual patterns. In *EdMedia 2000 World Conference on Educational Multimedia, Hypermedia, & Telecommunications* (Montreal, Quebec, Canada, June 26–July 1, 2000), J. Bourdeau and R. Heller, Eds., Association for the Advancement of Computing in Education, pp. 1004–1009.
- [B15] SAMUEL A. REBELSKY AND CLIF FLYNT. Real-world program design in cs2: The roles of a large-scale, multi-group class project. In *Proceedings of the Thirty-first SIGCSE Technical Symposium on Computer Science Education* (Austin, Texas, USA, 2000), SIGCSE '00, ACM, pp. 192–196.
- [B14] SARAH LUEBKE<sup>†</sup>, HILARY MASON<sup>†</sup>, AND SAMUEL A. REBELSKY. Annotating the World Wide Web. In *EdMedia 1999 World Conference on Educational Multimedia, Hypermedia, & Telecommunications* (Seattle, Washington, USA, June 19–24, 1999), B. Collis and R. Oliver, Eds., Association for the Advancement of Computing in Education, pp. 409–414. Reprinted as [A5].
- [B13] RAPHEN BECKER<sup>†</sup>, KEVIN MCLAUGHLIN<sup>†</sup>, AND SAMUEL A. REBELSKY. Project clio: Tools for tracking student use of course webs. In *EdMedia 1999 World Conference on Educational Multimedia, Hypermedia, & Telecommunications* (Seattle, Washington, USA, June 19–24, 1999), B. Collis and R. Oliver, Eds., Association for the Advancement of Computing in Education, pp. 981–986.
- [B12] SAMUEL A. REBELSKY. Issues in site-level web authoring. In *Proceedings of the Webnet '98 World Conference of the WWW, Internet, and Intranet* (Orlando, Florida, USA, November 7–12, 1998), H. Maurer and R. G. Olson, Eds., Association for the Advancement of Computing in Education, pp. 750–755.
- [B11] SAMUEL A. REBELSKY AND CHRISTOPHER DE BEER<sup>†</sup>. A customizable shorthand system for hypertext authoring. In *Proceedings of the Webnet '98 World Conference of the WWW, Internet, and Intranet* (Orlando, Florida, USA, November 7–12, 1998), H. Maurer and R. G. Olson, Eds., Association for the Advancement of Computing in Education, pp. 744–749.
- [B10] SAMUEL A. REBELSKY. In-class use of course webs. In *Proceedings of the EdMedia'98 World Conference on Educational Multimedia and Hypermedia* (Freiburg, Germany, June 20–27, 1998), T. Ottmann and I. Tomek, Eds., Association for the Advancement of Computing in Education, pp. 1115–1120. Not presented.

- [B9] SAMUEL A. REBELSKY. Courseweaver: A tool for building course-based webs. In *Proceedings of the EdMedia '97 World Conference on Educational Multimedia and Hypermedia* (Calgary, Canada, June 14–19, 1997), T. Muldner and T. C. Reeves, Eds., Association for the Advancement of Computing in Education, pp. 881–886.
- [B8] JAMES FORD<sup>†</sup>, KENNETH HARKER<sup>†</sup>, FILLIA MAKEDON, P. TAKIS METAXAS, CHARLES OWEN, AND SAMUEL A. REBELSKY. Eleven lessons from the dags'93 hypermedia conference proceedings. In *EdMedia 1996 World Conference on Educational Multimedia, Hypermedia, & Telecommunications* (Boston, Massachusetts, USA, June 17–23, 1996), P. Carlson and F. Makedon, Eds., Association for the Advancement of Computing in Education, p. 767. Short paper.
- [B7] SAMUEL A. REBELSKY. How and why to teach hypermedia in introductory computer science courses. In *EdMedia 1996 World Conference on Educational Multimedia, Hypermedia, & Telecommunications* (Boston, Massachusetts, USA, June 17–23, 1996), P. Carlson and F. Makedon, Eds., Association for the Advancement of Computing in Education, p. 802. Short paper.
- [B6] SAMUEL A. REBELSKY. Improving WWW-aided instruction: A report from experience. In *EdMedia 1996 World Conference on Educational Multimedia, Hypermedia, & Telecommunications* (Boston, Massachusetts, USA, June 17–23, 1996), P. Carlson and F. Makedon, Eds., Association for the Advancement of Computing in Education, pp. 103–108. Received outstanding paper award. Although the paper was inadvertently left out of the printed conference proceedings, it appears in the electronic (CD-ROM) proceedings. An extended version of this paper appeared as [A2].
- [B5] SAMUEL A. REBELSKY, JAMES FORD<sup>†</sup>, KENNETH HARKER<sup>†</sup>, FILLIA MAKEDON, P. TAKIS METAXAS, AND CHARLES OWEN<sup>†</sup>. Interactive multimedia conference proceedings. In *Conference Companion on Human Factors in Computing Systems* (Denver, Colorado, USA, 1995), CHI '95, ACM, pp. 13–14.
- [B4] SAMUEL A. REBELSKY. A web of resources for introductory computer science. In *Proceedings of the 2nd International WWW Conference '94: Mosaic and the Web* (Chicago, Illinois, USA, October 17–20, 1994), I. Goldstein and J. Hardin, Eds., pp. 487–497.
- [B3] FILLIA MAKEDON, JAMES W. MATTHEWS<sup>†</sup>, CHARLES B. OWEN<sup>†</sup>, AND SAMUEL A. REBELSKY. Multimedia authoring, development environments, and digital video editing. In *SPIE Conference on Defining the Global Information Infrastructure* (Boston, Massachusetts, USA, November 1–3, 1994), S. F. Lundstrom, Ed., SPIE. Invited paper. Appears as *Critical Reviews of Optical Science and Technology*, Volume CR56.
- [B2] FILLIA MAKEDON, SAMUEL A. REBELSKY, MATTHEW CHEYNEY<sup>†</sup>, CHARLES OWEN<sup>†</sup>, AND PETER GLOOR. Issues and experiences with multimedia authoring. In *Proceedings of the 1994 World Conference on Educational Multimedia and Hypermedia* (Vancouver, BC, Canada, June 25–30, 1994), T. Ottmann and I. Tomek, Eds., Association for the Advancement of Computing in Education, pp. 38–45. Invited paper.
- [B1] SAMUEL A. REBELSKY. I/O trees and interactive lazy functional programming. In *Programming Language Implementation and Logic Programming* (Leuven, Belgium, August 1992), M. Bruynooghe and M. Wirsing, Eds., Springer-Verlag, pp. 458–472. Lecture Notes in Computer Science #631. An earlier version of this work was published as [G3].

## Books, Textbooks, Proceedings Editorship, Chapters in Books

- [C9] SAMUEL A. REBELSKY AND HENRY M. WALKER. Curriculum exemplar: Grinnell College. In *Computer Science Curricula 2013 - Curriculum Guidelines for Undergraduate Degree Programs in Computer Science*. ACM and IEEE Computer Society, 2013, pp. 480–491.
- [C8] PHILIP BARKER AND SAMUEL A. REBELSKY, Eds. *Abstracts: EdMedia 2002 World Conference on Educational Multimedia, Hypermedia, & Telecommunications*. Association for the Advancement of Computing in Education, Norfolk, VA, 2002.
- [C7] PHILIP BARKER AND SAMUEL A. REBELSKY, Eds. *Proceedings of the EdMedia 2002 World Conference on Educational Multimedia, Hypermedia, & Telecommunications*. Association for the Advancement of Computing in Education, Norfolk, VA, 2002. 3 volumes.
- [C6] SAMUEL A. REBELSKY. *Experiments in Java*. Addison-Wesley, Reading, MA, 2000.
- [C5] SAMUEL A. REBELSKY, JAMES FORD<sup>†</sup>, FILLIA MAKEDON, AND CHARLES B. OWEN<sup>†</sup>. Multimedia publishing systems. In *Handbook of Internet and Multimedia Systems and Applications*, B. Furht, Ed. CRC and IEEE Press, 1998, ch. 21, pp. 457–482.
- [C4] FILLIA MAKEDON AND SAMUEL A. REBELSKY, Eds. *Electronic Multimedia Publishing: Enabling Technologies and Authoring Issues*. Kluwer Academic Publishers, Boston, MA, 1998.
- [C3] JAMES FORD<sup>†</sup>, FILLIA MAKEDON, CHARLES OWEN<sup>†</sup>, AND SAMUEL A. REBELSKY. Interactive multimedia publishing systems. In *Multimedia Tools and Applications*, B. Furht, Ed. Kluwer Academic Publishers, Boston, MA, 1996, pp. 359–392.
- [C2] JAMES FORD<sup>†</sup>, PETER GLOOR, FILLIA MAKEDON, AND SAMUEL A. REBELSKY, Eds. *Electronic Publishing and the Information Superhighway*. Addison-Wesley, 1996. A networked hypermedia conference proceedings.
- [C1] JAMES FORD<sup>†</sup>, FILLIA MAKEDON, AND SAMUEL A. REBELSKY, Eds. *Electronic Publishing and the Information Superhighway*. Birkhauser, Boston, MA, 1995.

## Refereed Conference Posters

- [D14] CAELIN BRYANT<sup>†</sup>, JONATHAN GILMOUR<sup>†</sup>, BEATRIZ HERCE-HAGIWARA<sup>†</sup>, ANH THU PHAM<sup>†</sup>, HALLE REMASH<sup>†</sup>, MARLI REMASH<sup>†</sup>, JONAH ZIMMERMAN<sup>†</sup>, SARAH DAHLBY ALBRIGHT, AND SAMUEL A. REBELSKY. The craft of code: Exposing elementary students to computing through tangible crafts (abstract only). In *Proceedings of the 49th ACM Technical Symposium on Computer Science Education* (2018), SIGCSE '18, ACM, pp. 1080–1080.
- [D13] CAELIN BRYANT<sup>†</sup>, JONATHAN GILMOUR<sup>†</sup>, BEATRIZ HERCE-HAGIWARA<sup>†</sup>, ANH THU PHAM<sup>†</sup>, HALLE REMASH<sup>†</sup>, MARLI REMASH<sup>†</sup>, JONAH ZIMMERMAN<sup>†</sup>, SARAH DAHLBY ALBRIGHT, AND SAMUEL A. REBELSKY. A middle-school code camp experience emphasizing data science for social good: (abstract only). In *Proceedings of the 49th ACM Technical Symposium on Computer Science Education* (2018), SIGCSE '18, ACM, pp. 1088–1088. Received award from Council for Undergraduate Research.
- [D12] ANITA DEWITT<sup>†</sup>, JULIA FAY<sup>†</sup>, MADELEINE GOLDMAN<sup>†</sup>, ELEANOR NICOLSON<sup>†</sup>, LINDA OYOLU<sup>†</sup>, LUKAS RESCH<sup>†</sup>, JOVAN MARTINEZ SALDAÑA<sup>†</sup>, SOULIDETH SOUNALATH<sup>†</sup>, TYLER WILLIAMS<sup>†</sup>, KATHRYN YETTER<sup>†</sup>, ELIZABETH ZAK<sup>†</sup>, NARREN BROWN, AND SAMUEL A. REBELSKY. What we say vs. what they do: A comparison of middle-school coding camps in the cs education literature and mainstream coding camps (abstract only). In *Proceedings of the 2017 ACM SIGCSE Technical Symposium on Computer Science Education* (2017), SIGCSE '17, ACM, pp. 707–707.
- [D11] SAMUEL A. REBELSKY. It's not just about functionality anymore: Expanding student projects with web ecosystems. In *Proceedings of the 46th ACM Technical Symposium on Computer Science Education* (2015), SIGCSE '15, ACM, pp. 682–682. Poster abstract.
- [D10] EILEEN FORDHAM<sup>†</sup>, HALLEY FREGER<sup>†</sup>, AMANDA HINCHMAN-DOMINGUEZ<sup>†</sup>, ALEXANDER MITCHELL<sup>†</sup>, DANIEL REBELSKY, VICTORIA TSOU<sup>†</sup>, EARNEST WHEELER<sup>†</sup>, ZOE WOLTER<sup>†</sup>, AND SAMUEL A. REBELSKY. Developing computational thinking through image making and constructionist learning. In *Proceedings of the 46th ACM Technical Symposium on Computer Science Education* (2015), SIGCSE '15, ACM, pp. 690–690. Poster abstract.
- [D9] CHUKWUNWEIKE T. ABUAH<sup>†</sup>, ROGELIO CALDERON<sup>†</sup>, MARTIN ESTRADA<sup>†</sup>, ZARNI HTET<sup>†</sup>, ADRIANA M. HURLEY<sup>†</sup>, KATHERINE INGERSOLL<sup>†</sup>, HART RUSSELL<sup>†</sup>, SYDNEY RYAN<sup>†</sup>, KIMBERLY SPASARO<sup>†</sup>, PRASHANNA TIWAREE<sup>†</sup>, AND SAMUEL A. REBELSKY. Making images by hand and by code: Motivating students with multi-language interactive media application scripting. In *Proceeding of the 44th ACM Technical Symposium on Computer Science Education* (2013), SIGCSE '13, ACM, pp. 735–735. Poster abstract.
- [D8] PELLE HALL<sup>†</sup>, ANDREW HIRAKAWA<sup>†</sup>, JENNELLE NYSTROM<sup>†</sup>, AND SAMUEL A. REBELSKY. From drawing to programming: Attracting middle-school students to programming through self-disclosing code. In *Proceedings of the 43rd ACM Technical Symposium on Computer Science Education* (February 29–March 3, 2012), L. S. King and D. Musicant, Eds., SIGCSE '12, ACM, pp. 673–673. Poster abstract.
- [D7] JANET DAVIS, SAMUEL A. REBELSKY, AND JEROD WEINMAN. Mediascripting: Teaching introductory cs by through interactive graphics scripting. In *Proceedings of the 43rd ACM Technical Symposium on Computer Science Education* (February 29–March 3, 2012), SIGCSE '12, ACM, pp. 665–665. Poster abstract. An extended version of this work appeared as [B26].
- [D6] SAMUEL A. REBELSKY. Building games with a purpose: A different kind of interdisciplinary game design. In *Proceedings of the 39th SIGCSE Technical Symposium on Computer Science Education* (Portland, Oregon, USA, March 12–15, 2008), S. Fitzgerald and M. Guzdial, Eds., ACM. Poster.
- [D5] IAN LUNDERSKOV<sup>†</sup>, IAN YOUNG<sup>†</sup>, LUIS ZULETA-BENAVIDES<sup>†</sup>, AND SAMUEL A. REBELSKY. Functional video programming: Computing with time-based media and the functional paradigm. In *Proceedings of the 38th SIGCSE Technical Symposium on Computer Science Education* (Covington, Kentucky, USA, March 7–10, 2007), S. Rodger and J. Dougherty, Eds., ACM. Poster.
- [D4] SAMUEL A. REBELSKY. The MERITs of computer science: Attracting women to computer science through mentored early research in teams. In *Pew Conference on Attracting and Retaining Majors* (Chicago, Illinois, USA, March 2003). Poster.
- [D3] KABENLA ARMAH<sup>†</sup>, GREGORY FULLER<sup>†</sup>, TANIA HEW<sup>†</sup>, CHOEDPONG KHANNABHA<sup>†</sup>, AND DANIEL OFORI-ADDU<sup>†</sup>. Raveling the web: Mediating interactions between browsers and servers. In *EdMedia 2002 World Conference on Educational Multimedia, Hypermedia, & Telecommunications* (Denver, Colorado, USA, June 24–29, 2002), P. Barker and S. A. Rebelsky, Eds., Association for the Advancement of Computing in Education. Poster.
- [D2] ANGELA KMIEC<sup>†</sup>, JONATHAN KOOMJIAN<sup>†</sup>, DEVIN LINDSEY<sup>†</sup>, AND SAMUEL A. REBELSKY. Clio's worlds: Three-dimensional visualizations of student web usage. In *EdMedia 2002 World Conference on Educational Multimedia, Hypermedia, & Telecommunications* (Denver, Colorado, USA, June 24–29, 2002), P. Barker and S. A. Rebelsky, Eds., Association for the Advancement of Computing in Education. Poster.
- [D1] MELISSA P. PINCHBACK<sup>†</sup>, REESE STOLTZFUS<sup>†</sup>, ANANTA TIWARI<sup>†</sup>, AND SAMUEL A. REBELSKY. Clio's intuition: Using data mining to find patterns of student web usage. In *EdMedia 2002 World Conference on Educational Multimedia, Hypermedia, & Telecommunications* (Denver, Colorado, USA, June 24–29, 2002), P. Barker and S. A. Rebelsky, Eds., Association for the Advancement of Computing in Education. Poster.

## Refereed Conference Panels

- [E9] MARK GOADRICH, MICHAEL GOLDWEBER, MATTHEW JADUD, S. MONISHA PULIMOOD, AND SAMUEL A. REBELSKY. Civic engagement across the computing curriculum (panel). In *Proceedings of the 50th ACM Technical Symposium on Computer Science Education* (2019), SIGCSE '19, ACM. Accepted for publication.
- [E8] JANET DAVIS, CHRISTINE A. SHANNON, JAMES KIPER, AND SAMUEL A. REBELSKY. Engaging CS alumni from afar. In *Proceedings of the 47th ACM Technical Symposium on Computing Science Education* (2016), SIGCSE '16, ACM, pp. 78–79.
- [E7] GREGORY W. HISLOP, BECKA MORGAN, LORI POSTNER, S. MONISHA PULIMOOD, AND SAMUEL A. REBELSKY. Incorporating humanitarian free and open source software (HFOSS) in the CS classroom. In *Grace Hopper Celebration of Women in Computing* (2015).
- [E6] DANIEL D. GARCIA, ZACHARY DODDS, TIMOTHY HUANG, AND SAMUEL A. REBELSKY. Teaching tips we wish they'd told us before we started, small college class edition. In *Proceedings of the 42nd ACM Technical Symposium on Computer Science Education* (2011), SIGCSE '11, ACM, pp. 317–318.
- [E5] MARK GUZDIAL, DAVID RANUM, BRAD MILLER, BETH SIMON, BARBARA ERICSON, SAMUEL A. REBELSKY, JANET DAVIS, KUMAR DEEPAK, AND DOUG BLANK. Variations on a theme: Role of media in motivating computing education. In *Proceedings of the 41st ACM Technical Symposium on Computer Science Education* (2010), SIGCSE '10, ACM, pp. 66–67.
- [E4] SAMUEL A. REBELSKY, RICHARD BROWN, JANET DAVIS, , AND BRIAN HARVEY. Whither scheme?: 21st century approaches to scheme in cs1. In *Proceedings of the 40th ACM Technical Symposium on Computer Science Education* (2009), SIGCSE '09, ACM, pp. 551–552.
- [E3] SAMUEL A. REBELSKY, PETER B. HENDERSON, AMRUTH N. KUMAR, AND F. N. (FRED) SPRINGSTEEL. Why I do declare!: Declarative programming in the undergraduate curriculum. In *Proceedings of the Thirty-second SIGCSE Technical Symposium on Computer Science Education* (2001), SIGCSE '01, ACM, pp. 398–399.
- [E2] HAL HART, JIM CARISTI, ROBERT DEWAR, MARK GERHARDT, DREW HAMILTON, CHRISTOPHER HAYNES, AND SAMUEL A. REBELSKY. The future of programming—are fundamental changes in computer science programs coming? (panel). In *Proceedings of the Twenty-ninth SIGCSE Technical Symposium on Computer Science Education* (February 26–March 1, 1998), SIGCSE '98, ACM, pp. 370–371.
- [E1] SAMUEL A. REBELSKY, ROBERT B. ALLEN, F. BAKER, ROBERT MACK, AND CHARLES OWEN. Perils and pitfalls of electronic conference proceedings. Panel at DAGS95 Conference on Electronic Publishing and the Information Superhighway, May 31-June 2, 1995.

## Conference Presentations

*This list does not include the presentations that correspond to the conference papers, posters, and panels listed above.*

- [F24] SAMUEL A. REBELSKY. Digital humanities in the introductory computer science classroom. Talk at Digital Bridges for Humanistic Inquiry Symposium, August 9, 2018.
- [F23] URSULA WOLZ, SAMUEL A. REBELSKY, AND ELEANOR NICOLSON<sup>†</sup>. Code crafters do art and code. Refereed workshop at 2017 ACM Richard Tapia Celebration of Diversity in Computing Conference, September 20–23, 2017.
- [F22] SAMUEL A. REBELSKY. Some notes on recruiting faculty committed to diversity. Invited talk at ACM/CIC Symposium on Diversifying the Professoriate: Pathways, Processes, and Practical Strategies for a Changing Academy, May 24, 2016.
- [F21] SAMUEL A. REBELSKY. HFOSS-lite in CS2: Incorporating the Ushahidi crowdmapping program in a data structures and algorithms course. In *Proceedings of the 46th ACM Technical Symposium on Computer Science Education* (2015), SIGCSE '15, ACM, p. 514. Abstract for lightning talk.
- [F20] EILEEN FORDHAM<sup>†</sup>, HALLEY FREGER<sup>†</sup>, AMANDA HINCHMAN-DOMINGUEZ<sup>†</sup>, ALEXANDER MITCHELL<sup>†</sup>, DANIEL REBELSKY, VICTORIA TSOU<sup>†</sup>, EARNEST WHEELER<sup>†</sup>, ZOE WOLTER<sup>†</sup>, AND SAMUEL A. REBELSKY. MIST, the Mathematical Image Synthesis Toolkit. In *Proceedings of the 46th ACM Technical Symposium on Computer Science Education* (2015), SIGCSE '15, ACM, p. 599. Abstract for refereed demo.
- [F19] SAMUEL A. REBELSKY. Algorithmic arts: Bridging CS and studio art. Presented at Symposium on Visual Learning: Transforming the Visual Arts, September 29, 2012.
- [F18] SAMUEL A. REBELSKY. Mediascripting: Media computation with functional programming, scripting, and design principles. Invited presentation for NSF Showcase, March 11, 2010.
- [F17] SAMUEL A. REBELSKY. Teaching students the rhetoric of hypertext. Invited talk as part of a series of talks for the opening of the Grinnell College Technology Discovery Center, February 18, 2004.
- [F16] SAMUEL A. REBELSKY. Bridging quantitative literacy and information literacy: An illustrative instance of inappropriately inaccurate information on the internet: Genome-related patents. Presented at the Pew Workshop on Quantitative Literacy Across the Curriculum, January 31, 2004. Based on [M13].



- [F15] SAMUEL A. REBELSKY. Future campus computing horror stories. Keynote talk presented at the Iowa Instructional Technology Services symposium, July 9, 2003.
- [F14] SAMUEL A. REBELSKY. Teaching differently: The web, technology, and liberal arts education. Invited talk presented at the Grinnell College Symposium on Teaching with Technology Across the Liberal Arts, June 13, 2001.
- [F13] SAMUEL A. REBELSKY. An introduction to Java. Tutorial presented on EdMedia World Conference on Educational Multimedia, Hypermedia, and Telecommunications (Seattle, Washington), June 19, 1999. A revised version of of [F10].
- [F12] SAMUEL A. REBELSKY. Designing course webs with site-level authoring tools. Tutorial presented at EdMedia World Conference on Educational Multimedia, Hypermedia, and Telecommunications (Seattle, Washington), June 19, 1999. A combination of [F8] and [F9].
- [F11] SAMUEL A. REBELSKY. Teaching algorithmic multimedia. Presented at Iowa Undergraduate Computing Consortium (Grinnell, Iowa, USA), March 6, 1999.
- [F10] SAMUEL A. REBELSKY. An introduction to Java. Tutorial presented at Webnet 98, the World Conference of the Internet, Intranet, & WWW (Orlando, FL), November 8, 1998.
- [F9] SAMUEL A. REBELSKY. An overview of site-level authoring tools. Tutorial presented at Webnet 98, the World Conference of the Internet, Intranet, & WWW (Orlando, FL), November 7, 1998.
- [F8] SAMUEL A. REBELSKY. An overview of site-level authoring tools for course webs. Seminar at Consortium for Computing in Small Colleges 1998 Midwest Conference (Spring Arbor, Michigan, USA), September 25-26, 1998. A revised version of [F7].
- [F7] SAMUEL A. REBELSKY. Designing and building course webs with site-level authoring tools (seminar). In *Proceedings of the Twenty-ninth SIGCSE Technical Symposium on Computer Science Education* (February 26–March 1, 1998), SIGCSE '98, ACM, pp. 384–.
- [F6] SAMUEL A. REBELSKY. Designing and building course-based webs. Tutorial at EdMedia 1997 World Conference on Educational Multimedia and Hypermedia, June 14–19, 1997.
- [F5] SAMUEL A. REBELSKY. JavaScripting for interactive educational webs. Tutorial at EdMedia 1997 World Conference on Educational Multimedia and Hypermedia, June 14–19, 1997.
- [F4] SAMUEL A. REBELSKY. CD-ROM and beyond. Invited talk presented at Vox Clamantis in Cyberspace: Life in the Information Age (New York, New York, USA, October 22, 1994).
- [F3] SAMUEL A. REBELSKY. Interactive electronic proceedings. Invited talk presented at 1994 DAGS Symposium on Parallel Programming and Problem-Solving Environments (Hanover, NH, USA), July 1994.
- [F2] SAMUEL A. REBELSKY. Extensions to equational logic programming: converting to constructor systems and default patterns. Presented at Autumn 1991 meeting of the Midwest Society for Programming Languages and Systems, 1991.
- [F1] SAMUEL A. REBELSKY. Developing an interactive interface for equational logic programs. Presented at Spring 1988 meeting of the Midwest Society for Programming Languages and Systems, 1988. Published as technical report [G1].

## Technical Reports

- [G6] SAMUEL A. REBELSKY, JAMES FORD<sup>†</sup>, KENNETH HARKER<sup>‡</sup>, FILLIA MAKEDON, P. TAKIS METAXAS, AND CHARLES OWEN<sup>†</sup>. The design and development of interactive multimedia conference proceedings. Tech. Rep. PCS-TR-239, Dartmouth College Department of Computer Science, Nov. 1994. Describes software system [S4].
- [G5] SAMUEL A. REBELSKY. Incremental equational programming. Tech. Rep. PCS-TR-240, Dartmouth College Department of Computer Science, Nov. 1994.
- [G4] SAMUEL A. REBELSKY. Tours, a system for lazy term-based communication. Tech. Rep. CS93-06, University of Chicago Department of Computer Science, June 1993. Doctoral dissertation.
- [G3] SAMUEL A. REBELSKY. I/O Trees and I/O support for equational logic programming. Tech. Rep. CS92-03, University of Chicago Department of Computer Science, Jan. 1992. A revised version of this report was published as [B1].
- [G2] SAMUEL A. REBELSKY. An introduction to tours, a protocol for demand-driven communication of terms. Tech. Rep. CS91-28, University of Chicago Department of Computer Science, Nov. 1991.
- [G1] SAMUEL A. REBELSKY AND DAVID J. SHERMAN. Developing an interactive interface for equational logic programs. Tech. Rep. CS90-05, University of Chicago Department of Computer Science, Feb. 1990.

## Miscellaneous Publications

- [M12] JENNIFER GREEN AND SAMUEL A. REBELSKY. *An Illustrative Instance of Inappropriately Inaccurate Information on the Internet: Genome-Related Patents*. Glimmer Press, Grinnell, Iowa, USA, 2003, pp. 211–218.
- [M11] JENNIFER GREEN AND SAMUEL A. REBELSKY. *Owning Bits: Intellectual Property in the Information Age*. Glimmer Press, Grinnell, Iowa, USA, 2003. Self published book based on student work in Tutorial class.
- [M10] SAMUEL A. REBELSKY. Reviewing for EdMedia. Online document prepared for conference reviewers. Available at <http://www.cs.grinnell.edu/rebel/sky/EdMedia/reviewing.pdf>, 2002.
- [M9] PHILIP BARKER AND SAMUEL A. REBELSKY. Preface. In *Proceedings of the EdMedia 2002 World Conference on Educational Multimedia and Hypermedia* (Denver, Colorado, USA, June 24–29, 2002), Association for the Advancement of Computing in Education.
- [M8] SAMUEL A. REBELSKY. *Untitled statement on involving women in computer science*. Project Kaleidoscope, Washington, DC, 2001. One page.
- [M7] SAMUEL A. REBELSKY. Conference report: Edmedia'99 world conference on educational multimedia, hypermedia, and telecommunications. *Educational Technology Review* (Autumn/Winter 1999), 34, 37.
- [M6] SAMUEL A. REBELSKY. An overview of site-level authoring tools for course webs. *The Journal of Computing in Small Colleges* 14, 1 (Nov. 1998). Abstract of seminar [F8].
- [M5] FILLIA MAKEDON AND SAMUEL A. REBELSKY. Enabling technologies for electronic publishing. *Journal of Multimedia Tools and Applications* 6, 2 (1998). Introduction to special issue on Electronic Publishing.
- [M4] JAMES FORD<sup>†</sup>, FILLIA MAKEDON, AND SAMUEL A. REBELSKY. *Electronic publishing: multiple perspectives from diverse communities*. Birkhauser, Boston, MA, 1995. Introduction to [C1].
- [M3] SAMUEL A. REBELSKY, FILLIA MAKEDON, DAVID KARGER, P. TAKIS METAXAS, CHARLES OWEN<sup>†</sup>, IAN PARBERRY, AND STEVE TATE. Information about focs'95 electronic submissions. *SIGACT News* 26, 1 (Mar. 1995), 58–62. By the SIGACT Electronic Publishing Board.
- [M2] SAMUEL A. REBELSKY. Developing electronic conference proceedings in the devlab. *Interface: Computing News of Dartmouth College* (Winter 1995). Invited article.
- [M1] SAMUEL A. REBELSKY. Electronic publishing on the world wide web: comments and criticisms. *Interface: Computing News of Dartmouth College* (Winter 1995). Invited article.

## Teaching

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### Undergraduate Computer Science

#### ALGORITHM ANALYSIS

Grinnell College — *Fall 2015, Fall 2017*

#### COMPUTER NETWORKS

Dartmouth College — *Spring 1996*

Grinnell College — *Spring 2000*

#### CONCEPTS IN COMPUTING (COMPUTER SCIENCE FOR NONMAJORS)

Dartmouth College — *Summer 1993, Winter 1994, Summer 1994, Summer 1995, Winter 1997*

#### IMPLEMENTATION OF PROGRAMMING LANGUAGES (COMPILERS)

Dartmouth College — *Spring 1993, Spring 1995*

Grinnell College — *Fall 1998, Spring 2001, Fall 2002, Spring 2004, Fall 2011*

#### INTRODUCTION TO COMPUTER PROGRAMMING IN PASCAL

University of Chicago — *Winter 1986, Spring 1986, Fall 1986, Winter 1987*

#### INTRODUCTION TO COMPUTER SCIENCE I

Grinnell College (Scheme/Functional) — *Fall 2000, Spring 2001, Fall 2002, Spring 2003, Fall 2003, Fall 2006, Spring 2007, Fall 2007, Spring 2008, Fall 2009, Spring 2010, Fall 2013, Spring 2014, Fall 2014, Spring 2015, Fall 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017, Spring 2018*

#### INTRODUCTION TO COMPUTER SCIENCE I.5 (IMPERATIVE PROGRAMMING, MEMORY MANAGEMENT, TOOLS, SIMPLE DATA STRUCTURES, ETC.)

Grinnell College (C/Imperative) — *Fall 2010, Spring 2011*

#### INTRODUCTION TO COMPUTER SCIENCE II (DATA STRUCTURES AND ALGORITHMS)

University of Chicago (Pascal/Imperative) — *Spring 1987*

Grinnell College (Java/Object-Oriented) — *Fall 1997, Spring 1998, Spring 1999, Fall 1999, Spring 2000, Fall 2000, Fall 2004, Spring 2005, Fall 2005, Spring 2006, Fall 2013, Spring 2014, Fall 2014*

#### **INTRODUCTION TO COMPUTER SCIENCE I&II (ACCELERATED COMBINED COURSE)**

Grinnell College — *Spring 2003, Spring 2004*

#### **INTRODUCTION TO COMPUTER SCIENCE III (DATA REPRESENTATION, STORAGE MANAGEMENT, ETC.)**

Grinnell College — *Spring 2003*

#### **MEDIASCRIPTING (1 CREDIT)**

Grinnell College — *Spring 2013, Spring 2014*

#### **OPERATING SYSTEMS**

Dartmouth College — *Fall 1995*

#### **A PHILOSOPHY OF C AND UNIX (1 CREDIT)**

Grinnell College — *Spring 2013, Spring 2014, Spring 2015, Spring 2017*

#### **PRINCIPLES OF PROGRAMMING LANGUAGES**

Dartmouth College — *Winter 1994, Winter 1995, Winter 1997*

Grinnell College — *Spring 1998, Spring 1999, Spring 2005, Spring 2006, Spring 2007, Spring 2011*

#### **PROBLEM SOLVING AND COMPUTING (INTRODUCTORY MATHEMATICS AND COMPUTER SCIENCE FOR NOVICES)**

Grinnell College — *Spring 1998*

#### **A SOCIAL AND ALGORITHMIC OVERVIEW OF COMPUTER SCIENCE**

Grinnell College — *Spring 2000*

#### **SOFTWARE DESIGN**

Grinnell College — *Fall 1997, Fall 2004, Spring 2010, Fall 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017, Spring 2018*

#### **WEB AND DATABASE APPLICATION DEVELOPMENT**

Grinnell College — *Fall 2010*

### **Online Undergraduate Computer Science**

#### **THE CODE OF ART, THE ART OF CODE**

Global Online Academy/Grinnell College — *Fall 2016*

### **Graduate Computer Science**

#### **PROGRAMMING AND COMPUTING SYSTEMS II (PROGRAMMING LANGUAGE PARADIGMS AND IMPLEMENTATION)**

Dartmouth College — *Spring 1994, Spring 1995, Spring 1996*

### **Undergraduate Mathematics and Statistics**

#### **CALCULUS I**

University of Chicago — *Summer 1986*

#### **CALCULUS II**

University of Chicago — *Summer 1985, Summer 1986*

#### **INTRODUCTORY STATISTICS**

Grinnell College — *Spring 2008*

### **Tutorial (First-Year Seminar)**

#### **OWNING THE INTANGIBLE: INTELLECTUAL PROPERTY IN THE TWENTY-FIRST CENTURY**

Grinnell College — *Fall 2010*

#### **FREEDOM AND AUTHORITY ON THE INTERNET: CONFLICT, COMMUNITY, AND CONTROL**

Grinnell College — *Fall 2007*

#### **ONEROUS OWNERSHIP? INTELLECTUAL PROPERTY IN THE TWENTY-FIRST CENTURY**

Grinnell College — *Fall 2005*

#### **OWNING BITS: INTELLECTUAL PROPERTY IN THE INFORMATION AGE**

Grinnell College — *Fall 2003*

#### **HYPERMEDIA: SOME TECHNOLOGY, SOME IMPLICATIONS**

Grinnell College — *Fall 1999 (with R. Stuhr)*

## Interdisciplinary

### ALGORITHMIC ARTS (1 CREDIT)

Grinnell College — *Fall 2012*

### BIOINFORMATICS

Grinnell College — *Fall 2009 (with Vida Praitis), Fall 2011 (with Vida Praitis)*

### EVOLUTION OF TECHNOLOGY

Grinnell College — *Spring 2004, Spring 2005, Spring 2010, Spring 2014*

### LIFE BEYOND GRINNELL: LEARNING FROM ALUMNI (1 CREDIT)

Grinnell College — *Spring 2013, Fall 2013, Fall 2014, Fall 2016*

### WOMEN AND COMPUTING (1 CREDIT)

Grinnell College — *Fall 2005 (with Janet Davis and Henry Walker), Spring 2013*

## Undergraduate Students Supervised, Grinnell

BROADENING PARTICIPATION IN COMPUTER SCIENCE THROUGH COMPUTING FOR SOCIAL GOOD, 8 students	<i>Summer 2018</i>
DATA SCIENCE EDUCATION FOR DIVERSITY, 7 students	<i>Summer 2017</i>
COMPUTER ANIMATION, 2 students	<i>Spring 2017</i>
COMPUTING FOR DIVERSITY, 11 students, 2 not for credit	<i>Summer 2016</i>
MATH OVER IMAGES, 6 students	<i>Summer 2015</i>
AN ONLINE SYSTEM FOR MATH OVER IMAGES, 7 students	<i>Summer 2014</i>
MEDIA SCRIPTING, 5 students	<i>Summer 2013</i>
COMPUTING FOR SOCIAL GOOD AND APP DEVELOPMENT FOR CS2, 3 students	<i>Summer 2013</i>
TIME-BASED IMAGES, 1 student	<i>Spring 2013</i>
MEDIA SCRIPTING, 2 students	<i>Fall 2012</i>
AN ENVIRONMENT FOR LIVECODING AND LIVE PERFORMANCE, 2 students	<i>Summer 2012</i>
MEDIA SCRIPTING, 7 students	<i>Summer 2012</i>
MEDIA SCRIPTING, 9 students	<i>Summer 2011</i>
INTERACTIVE APPLICATION SCRIPTING, 4 students	<i>Summer 2009</i>
STATSGAMES: GAMES FOR EXPLORING MULTIVARIATE STATISTICS, CO-SUPERVISED WITH SHONDA KUPER, 4 students	<i>Summer 2009</i>
FUNCTIONAL MEDIA PROGRAMMING, 6 students	<i>Summer 2007</i>
FUNCTIONAL 3D GRAPHICS, 2 students	<i>Summer 2006</i>
FUNCTIONAL VIDEO SCRIPTING, 3 students	<i>Summer 2006</i>
FUNCTIONAL RASTER GRAPHICS, 4 students	<i>Summer 2006</i>
GAMES FOR LEARNING STATISTICS, 3 students, co-supervised with Shonda Kuper	<i>Summer 2006</i>
SOFTWARE TO SUPPORT MEETING SCHEDULING, 3 students	<i>Summer 2004</i>
WEB RAVELER: MEDIATING WEB SERVICES, 3 students	<i>Summer 2004</i>
FREEDWEB: A PEER-TO-PEER WEB SERVER, 3 students	<i>Summer 2004</i>
COURSE SPINNER: TOOLS FOR BUILDING ADVANCED COURSE WEBS, 6 students, including 5 not-for-credit	<i>Summer 2003</i>
MEDIATING THE WEB, 3 students	<i>Summer 2003</i>
VISUALIZING WEB USAGE LOGS, 3 students	<i>Summer 2003</i>
WEB RAVELER: MEDIATING WEB SERVICES, 5 students, including three not-for-credit	<i>Summer 2002</i>
CLIO'S INTUITION: DATA MINING OF STUDENT WEB USAGE LOGS, 3 students	<i>Summer 2002</i>
CLIO'S WORLDS: 3D VISUALIZATIONS OF STUDENT WEB USAGE, 4 students, including two not-for-credit	<i>Summer 2002</i>
WEB RAVELER, 2 students	<i>Summer 2001</i>
PROJECT CLIO, 3 students, including one not-for-credit	<i>Summer 2001</i>
ANNOTATING THE WEB, 3 students	<i>Summer 2001</i>
STATIC LOCATIONS IN DYNAMIC DOCUMENTS, 1 student	<i>Summer 2000</i>
WEB RAVELER, 3 students	<i>Summer 2000</i>
PROJECT CLIO: A HISTORY MECHANISM FOR THE WORLD WIDE WEB, 3 students	<i>Summer 2000</i>
BLAZING TRAILS ON THE WORLD WIDE WEB, 6 students, 3 received independent study credit	<i>Fall 1999 to Spring 2000</i>
TOOLS FOR INTERACTIVE WEB CREATION AND MANIPULATION, 5 students	<i>Summer 1999</i>

TRAILBLAZING - BUILDING TRAILS ON THE WORLD WIDE WEB, 4 students	Fall 1998 to Spring 1999
EXPERIMENTS IN PAGE ANALYSIS AND PROXY SERVERS, 2 students	Spring 1999
ALGORITHM ANIMATION, 1 student	Summer 1998
CLIO - A SYSTEM FOR ANALYSIS OF STUDENT WEB USAGE; A SYSTEM FOR WEB ANNOTATIONS, 4 students	Summer 1998
A CUSTOMIZABLE SHORTHAND SYSTEM FOR HYPERTEXT AUTHORING, 1 student	Spring 1998

## Independent Study

GUIDED ONLINE LEARNING — C AND WEB, Grinnell College	Summer 2015
RACE AND GENDER IN COMPUTER SCIENCE, Grinnell College	Spring 2015
TECHNICAL WRITING, Grinnell College	Spring 2014
BOARD GAME DESIGN, Grinnell College	Fall 2013
GAME MECHANISMS, Grinnell College	Spring 2013
LANGUAGE DESIGN IN VIRTUAL WORLDS, Grinnell College	Spring 2007
ACTIONSCRIPT, Grinnell College	Spring 2007
DEVELOPING LABORATORIES FOR PROGRAMMING LANGUAGES, Grinnell College	Fall 2005
HUMAN-COMPUTER INTERACTION, Grinnell College	Spring 2005
A PARALLEL COMPILER FOR FUNCTIONAL LANGUAGES, Grinnell College	Spring 2005
TECHNOLOGY OF THE POLL VAULT (CO-SUPERVISED), Grinnell College	Spring 2004
ROBOTIC ART, Grinnell College	Fall 2003
INTERNET CENSORSHIP IN CHINA, Grinnell College	Spring 2003
AUTOMATING HYPERTEXT GLOSSARIES, Grinnell College	Spring 2003
CARD: THE COMPUTER-ASSISTED ROOM DRAW, Grinnell College	Spring 2003
HYPERMEDIA LITERATURE, Grinnell College	Fall 2002
WEB SOFTWARE ENGINEERING, Grinnell College	Spring 2001
ADVANCED WEB TECHNIQUES, Grinnell College	Fall 2000
COMPUTER GAME DESIGN AND IMPLICATIONS, Grinnell College	Spring 2000
HYPERMEDIA, Grinnell College	Fall 1999
BLAZING TRAILS ON THE WORLD WIDE WEB, Grinnell College	Fall 1999
DESIGNING EDUCATIONAL MULTIMEDIA EXERCISES FOR INTRODUCTORY COMPUTER SCIENCE, Grinnell College	Spring 1998
HUMAN FACTORS, Grinnell College	Fall 1997
PROGRAMMING FOR THE WEB, Dartmouth College	Winter 1997
ADVANCED TOPICS IN COMPUTING, Dartmouth College	Spring 1995
COMPILERS, Dartmouth College	Spring 1994
EDUCATIONAL COMPUTING, Dartmouth College	Fall 1993

## Continuing Education

MEDIASCRIPING: MEDIA COMPUTATION IN CONTEXT, SIGCSE 2009	March 6, 2009
AN INTRODUCTION TO JAVA, EdMedia'99	June 19, 1999
DESIGNING COURSE WEBS WITH SITE-LEVEL AUTHORING TOOLS, EdMedia'99	June 19, 1999
AN INTRODUCTION TO JAVA, Webnet 98	November 8, 1998
AN OVERVIEW OF SITE-LEVEL AUTHORING TOOLS, Webnet 98	November 7, 1998
AN OVERVIEW OF SITE-LEVEL AUTHORING TOOLS FOR COURSE WEBS, CCSC:MW'98	Fall 1998
DESIGN FOR COURSE WEBS, EdMedia'97	June 1997
JAVASCRIPT FOR INTERACTIVE EDUCATIONAL COURSE WEBS, EdMedia'97	June 1997
A SHORT INTRODUCTION TO JAVASCRIPT, Informal Colloquia, Dartmouth College	April-May 1996
INTRODUCTION TO HTML AUTHORING, Dartmouth Institute for Advanced Graduate Studies	June 1995
INTRODUCTION TO PAGEMAKER, University of Chicago Publishing Program	1991
ELECTRONIC PUBLISHING, University of Chicago Publishing Program	1990

# Research

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## Software Systems

- [S16] Processing Stitch. Software, 2016–present. A set of Processing libraries that support the programming of embroidery machines.
- [S16] MIST — the mathematical image synthesis toolkit. Software, 2014–present. A Web-based graphics application that encourages open exploration and problem solving. <https://github.com/GlimmerLabs/MIST> and <http://glimmer.grinnell.edu/>.
- [S15] A simple Ushahidi Java API. Software, 2013–2015. <https://github.com/CSG-CS2/simple-ushahidi-api>.
- [S14] gigns - the Glimmer improved gimp library for scripting. Software, 2012–2017. Extensions to the GNU Image Manipulation Program (GIMP) to support novice programmers. Successor to [S12]. <https://github.com/GlimmerLabs/gigns>.
- [S13] louDBus. Software, 2012–2014. A D-Bus client library for the Racket programming language. <https://github.com/GlimmerLabs/louDBus>.
- [S12] IAScript/MediaScript. Software, 2007–2013. An interactive scripting system with support for multiple languages (including Scheme and Python) and extensions for multiple platforms (including GIMP and InkScape). Described in [B25], [B26], [D7], [D8], [D9], and [F18]. Successor to [S10]. Precursor to [S14].
- [S11] Phoenix. Software, 2006–2009. A nonlinear video editing system which emphasizes script-based editing using Scheme. A preliminary version is described in [D5].
- [S10] DrFu + Higher Order Graphics. Software, 2005–2007. A collection of extensions to the GNU Image Manipulation Program (GIMP) to support higher-order manipulation of images. Precursor to [S12].
- [S9] Project Clio. Software, 1997–2006. A system for tracking student use of course webs. A prototype of the system is described in [B13]. Visualization tools are described in [B19], [B22], and [D2]. A data-mining tool is described in [D1].
- [S8] Web Raveler. Software, 1997–2006. A system for customizing views of the Web. Includes an annotation system, a trail system, and a number of other page mediators. The original system is described in in [B13]. A revised system is described in [B18], [D3], and [B23]. A prototype annotation system is described in [B14]. A prototype trail system is described in [B17]. A prototype link summary system is described in [B20].
- [S7] Site Weaver. Software, 1997–2006. A collection of tools for building hypermedia documents, particularly course webs. Includes a shorthand system for converting documents between formats. The original shorthand system is described in [B11].
- [S6] CourseWeaver. Software, 1995–1996. A hypermedia system for designing and building reconfigurable course webs. Automates many steps in the construction and reconstruction of course webs. Also permits multiple views of the same data (web-based, stand-alone, or grouped for printing) and allows the instructor to organize the same data in many ways. Described in [B9]. Precursor to [S7].
- [S5] Electronic conference submissions server. Software, 1994–1998. Developed in Perl for STOC’95 and other conferences. Used for a number of conferences, including ACM Symposium on the Theory of Computation, IEEE Symposium on Foundations of Computer Science, and SIAM Symposium on Discrete Algorithms. In 1998, it was used for at least a dozen conferences.
- [S4] DAGS multimedia proceedings. Software, 1994–1996. Complete redesign and reimplementations of sophisticated interface for electronic proceedings that include both talks (audio, video, and slides) and papers. Described in [A4], [B5] and [G6].
- [S3] Software for introductory computer science. Software, 1993–1998. Includes assembly code “interpreter”, HTML editor, animated sorting and searching algorithms, HyperCard stack templates, HyperCard-based hypertext guide to computer jargon, sample games, and an electronic blackboard. Written in HyperCard and JavaScript.
- [S2] Tours: A system for term-based i/o. Software, 1990–1993. A generic incremental, demand-driven, term-based communication system. Used as new I/O system for Equational programming system and provides interoperability between declarative and imperative programs. Described in [F4].
- [S1] Equational compiler for sun workstations. Software, 1987–1988. Reimplementation of compiler for equation-based declarative language. Written in T (a LISP dialect) to generate 68000 code.

## External Funding

CS1: CREATIVE COMPUTATION IN THE CONTEXT OF ART AND VISUAL MEDIA  
Subaward of National Science Foundation Grant  
\$3,000

*Fall 2016*

REFORMULATING MEDIA COMPUTATION WITH FUNCTIONAL PROGRAMMING, SCRIPTING, AND DESIGN PRINCIPLES  
National Science Foundation Course, Curriculum, and Laboratory Improvement (CCLI) grant 0633090

*May 2007 to July 2009*

Samuel A. Rebelsky (PI), Janet Davis (Co-PI), Matthew Kluber (Co-PI)  
\$148,763

#### FACULTY CAREER ENHANCEMENT (FACE)

May 2006–August 2006

Associated Colleges of the Midwest (ACM)  
Provided \$3000 to support attendance at SIGGRAPH and related conferences.

#### TRAVEL GRANT

Summer 2000

Iowa Computer Science Preparing Future Faculty Consortium using funds from a National Science Foundation program.  
Supported student travel to EdMedia 2000 World Conference on Educational Multimedia and Hypermedia.  
Approximately \$5000.

#### UNTITLED GRANT

Winter 1999

Smarter Kids Foundation  
Samuel A. Rebelsky (PI)  
Approximately \$2000

#### TRAILBLAZING TOOLS FOR THE WORLD WIDE WEB

September 1998 to May 1999

The CRA Collaborative Research Environment for Women in Undergraduate Computer Science and Engineering Program  
Samuel A. Rebelsky (Faculty Sponsor), Rachel Heck, Sarah Luebke, Weichao Ma, and Hilary Mason (Students)  
\$3,400

#### EXTENDING INTRODUCTORY COMPUTER SCIENCE WITH ALGORITHMIC MULTIMEDIA

July 1998 to June 2000. Extended to June 2001.

NSF Instrumentation and Laboratory Improvement Grant DUE #98-50546  
Samuel A. Rebelsky (PI), John D. Stone (Co-PI), and Henry M. Walker (Co-PI)  
\$33,600

## Miscellaneous

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### Editorials

Respecting Spaces and Supporting Community. *The Scarlet and Black*, Volume 124, Issue 20, April 4, 2008.

Upcoming Faculty Legislation. *The B&S*, Volume 6, Issue 4, May 2006.

Drink Responsibly. *The Scarlet and Black*, Volume 122, Issue 9, November 11, 2005.

### Profiles in the Popular Press

College Students teaching coding skills to teens. *The Grinnell Herald Register*, July 27, 2017

An article on the “Data for Social Good” summer camp.

Grinnell College hosts coding camp for area students. *The Grinnell Herald Register*, August 11, 2016

An article on the “Art of Code” summer camp.

Owning Bits: From First-year Tutorial to Book. *The Grinnell Magazine*, Spring 2004, p. 27.

A short description of a seminar on intellectual property that I ran for first-year students.

A Day in the Life of Sam Rebelsky. *The Scarlet and Black*, April 11, 2003, pp. 11–12.

One in a series of short profiles of what members of how members of the Grinnell community spend their days.

A Community of Research. *The Grinnell Magazine*, Fall 2002, p. 20.

A short article profiling my students’ summer research, emphasizing the group’s trip to the EdMedia 2002 World Conference on Educational Multimedia, Hypermedia, and Telecommunications.

EOT-PACI Program Participants Receive EdMedia 2000 Award: CRE-W Students Explore Trail Blazing in Their Award-Winning Paper. *NPACI & DSC Online*, Volume IV Issue 16, August 9, 2000.

A short article reporting on my Collaborative Research Experience for Undergraduate Women students whose work with me [B17] won an outstanding paper award at the EdMedia 2000 conference.

### Workshops Attended

This listing reflects only workshops attended since September 1997, and only some of those workshops. It may also include a few upcoming workshops.

CRUCIAL AND COURAGEOUS CONVERSATIONS, CMD-IT

Fall 2018

STUDENT WELL-BEING AND ACADEMIC SUCCESS, Grinnell College

Summer 2018

INCORPORATING COGNITIVE SCIENCE PRINCIPLES INTO INSTRUCTION AND ADVISING, Grinnell College

Summer 2017

CURRICULAR DEVELOPMENT IN DATA SCIENCE, Grinnell College	Summer 2017
DIGITAL TO LETTERPRESS PRINTING, Grinnell College	Summer 2017
OPEN EDUCATIONAL RESOURCES, Grinnell College	Summer 2017
UNIVERSAL DESIGN FOR LEARNING, Grinnell College	Summer 2017
ONLINE TEACHING, Global Online Academy	Summer 2016
DIVERSITY IN THE SCIENCES, Grinnell College	Summer 2016
DIGITAL LIBERAL ARTS, Grinnell College/University of Iowa	Summer 2016
ONLINE TEACHING, Global Online Academy	Summer 2015
LETTERPRESS, Grinnell College	Summer 2015
TEACHING WRITING, Grinnell College	Summer 2015
TEACHING WITH TECHNOLOGY, Grinnell College	Summer 2014
GROUP RUBRICS, Grinnell College	Summer 2014
RACE, ETHNICITY, CLASS, AND GENDER WORKSHOP, Grinnell College	Summer 2014
POLICY STUDIES WORKSHOP, Grinnell College	Summer 2013
PROFESSORS OPEN SOURCE SUMMER EXPERIENCE, Drexel University	Summer 2013
INCLUSIVE CLASSROOM, Grinnell College	Summer 2012
ASSESSMENT, Grinnell College Co-Chair	Summer 2012
MENTORING, Grinnell College	Summer 2011
PORTFOLIO, Grinnell College	Summer 2011
ASSESSMENT, Grinnell College Co-Chair	Summer 2011
PORTFOLIO WORKSHOP, Grinnell College	Summer 2010
MOTIVATING COMPUTER SCIENCE STUDENTS WITH DIGITAL SOUND AND MUSIC, SIGCSE Symposium	March 2009
WRITING COMPUTER BOOKS, SIGCSE Symposium	March 2009
INTERDISCIPLINARY SCIENCE, Grinnell College	Fall 2008
INTRODUCTION TO GIS, MAP SERVERS, AND MASHUPS, SIGCSE Symposium	March 2008
COMPUTER SCIENCE UNPLUGGED, SIGCSE Symposium	March 2008
TEACHING AND BUILDING HUMANITARIAN OPEN SOURCE SOFTWARE, SIGCSE Symposium	March 2008
MIDSTATES CONSORTIUM MID-CAREER FACULTY WORKSHOP, Macalester College	February 2008
BIOINFORMATICS WORKSHOP, Grinnell College	July 2007
TECHNOLOGY STUDIES WORKSHOP, Grinnell College Faculty leader	June 2007
LEGO MINDSTORMS, SIGCSE Symposium	March 2007
DEPARTMENT CHAIRS WORKSHOP, SIGCSE Symposium	March 2007
DNA LAND, SIGCSE Symposium	March 2006
COMMUNICATION SKILLS WORKSHOP, Grinnell College Faculty leader	May 2005
STUDENT MENTORING WORKSHOP, Grinnell College	May 2005
INCORPORATING HANDS-ON ACTIVITIES IN COMPUTER SCIENCE, SIGCSE Symposium	February 2005
TEACHING COMPUTER SCIENCE THROUGH MULTIMEDIA, SIGCSE Symposium	February 2005
LIBERAL ARTS EDUCATION WORKSHOP, Grinnell College	May 2004
GRINNELL COLLEGE CASE STUDIES WRITING WORKSHOP, Grinnell College	August 2003
IOWA INSTRUCTIONAL TECHNOLOGIES SYMPOSIUM, Grinnell College	July 2003
COMPUTATIONAL SOLUTIONS TO BIOLOGICAL PROBLEMS, Washington University, St. Louis	June 2003
ROY J. CARVER TRUST INTEGRATING TECHNOLOGY INTO THE CLASSROOM WORKSHOP, Grinnell College	June 2003
ROOTS OF RENEWAL: PRAIRIE STUDIES AND THE ARTS, Grinnell College	June 2003
TEACHING INTRODUCTORY STATISTICS WORKSHOP, Grinnell College	May 2003
PEW MIDSTATES MATHEMATICS AND SCIENCE CONSORTIUM WORKSHOP ON ATTRACTING AND RETAINING MAJORS, Chicago	March 2003
GRINNELL COLLEGE GIS WORKSHOP, Grinnell College	March 2003



GRINNELL COLLEGE COMPUTER SCIENCE ASSESSMENT WORKSHOP, Grinnell College	August 2001
GRINNELL COLLEGE LILLY SPIRITUALITY WORKSHOP, Grinnell College	May 2001
GRINNELL COLLEGE WEB DESIGN WORKSHOP, Grinnell College	January 2001
GRINNELL COLLEGE BLACKBOARD WORKSHOP, Grinnell College	January 2001
GRINNELL COLLEGE COMPUTER SCIENCE ASSESSMENT WORKSHOP, Grinnell College	August 1999
GRINNELL COLLEGE WRITING ASSESSMENT WORKSHOP, Grinnell College	July 1999
MELLON/CULPEPER TECHNOLOGY AND PEDAGOGY WORKSHOP, Grinnell College	June 28–29, 1999
DR. SYNTAX (WRITING WORKSHOP), Grinnell College	April 29 and May 24–28, 1999
LINEAR ALGEBRA IN MAPLE PROJECT (LAMP) WORKSHOP, Grinnell College	January 18–19, 1999
GRINNELL WRITING WORKSHOP, Grinnell College	August 1998
GRINNELL HYPERMEDIA STUDIES WORKSHOP, Grinnell College Workshop leader	July 1998
GRINNELL ORAL SKILLS WORKSHOP, Grinnell College	June 8–12, 1998
GRINNELL WORLD WIDE WEB WORKSHOP, Grinnell College Faculty facilitator	July 13–17, 1998
ADAPTIVE HYPERMEDIA, SIGCSE 1998 Symposium	February 26–March 1, 1998
ADA, SIGCSE 1998 Symposium	February 26–March 1, 1998
CASE STUDIES, SIGCSE 1998 Symposium	February 26–March 1, 1998
QUANTITATIVE EVALUATION IN TEACHING RESEARCH, SIGCSE 1998 Symposium	February 26–March 1, 1998
PEW MIDSTATES SCIENCE AND MATHEMATICS CONSORTIUM WORKSHOP FOR YOUNG SCIENCE FACULTY	October 10–12, 1997

## College Service, Grinnell

### Current

ADVISORY BOARD, Vivero Digital Scholarship Program	Spring 2017 to present
PLACEMENT COORDINATOR, Computer Science, Mathematics, and Statistics	Fall 2015 to present
ADVISORY BOARD, Grinnell College Center for Teaching, Learning, and Assessment (CTLA)	Fall 2014 to present
REVIEWER, Grinnell College Innovation Fund Review Board	Fall 2013 to present
ADVISORY BOARD, Wilson Center for Leadership and Innovation	Spring 2013 to present
ADVISORY BOARD, Faulconer Gallery	Spring 2012 to present
COMPUTER SCIENCE DEPARTMENT REPRESENTATIVE, Science Division Personnel Committee	Fall 2016 to present
	Fall 2009 to Spring 2015
	Fall 2007 to Spring 2008
MENTOR, Grinnell Women and Gender Minorities in Computing	Summer 2015 to present
	March 2001 to Spring 2008
MEMBER, Noyce Visiting Professorship Committee	Spring 1999 to present
MEMBER, Noyce/Intel Grant Committee	Fall 1998 to present
MEMBER, Technology Studies Concentration	September 1998 to present

### Past

CO-DIRECTOR, Grinnell Science Project	Spring 2016 to Spring 2018
	Spring 2004 to Spring 2006
ALTERNATE PARLIAMENTARIAN, Grinnell College Faculty	Fall 2017
MEMBER, Grinnell College Patent Policy Task Force	Spring 2013 to Spring 2015
	Spring 2017 to Fall 2017
SEARCH COMMITTEE, Director for Academic Technology	Summer 2017
SEARCH COMMITTEE, Assistant Director for Center for Teaching, Learning, and Assessment	Spring 2017 to Summer 2017
SEARCH COMMITTEE, Information Security Technical Specialist	Fall 2016
TRAINED ADVISOR, Sexual Assault Hearing Board	Spring 2014 to Fall 2016
SEARCH CHAIR, Peer Education Coordinator, Computer Science and Statistics	Summer 2016
COORDINATOR, Grinnell Computer Science Affinity Reunion	Spring 2016 to Fall 2016

FACULTY REPRESENTATIVE AND SCRIBE, Digital Access Committee	Spring 2016 to Fall 2016
COORDINATOR, Computer Science Peer Educator Program	Spring 2016 to Fall 2016
SEARCH COMMITTEE, Data Scientist	Spring 2016
COMPUTER SCIENCE REPRESENTATIVE, General Science Committee	Fall 2015 to Spring 2018
SEARCH COMMITTEE, Grinnell College Chief Information Officer	Spring 2015 to Summer 2015
ADVISORY BOARD, Grinnell College Data Analysis and Social Inquiry Lab (DASIL)	Fall 2014 to Spring 2018
FACULTY MENTOR, Grinnell Peer Connections Program	Fall 2014 to Fall 2015
MEMBER, Grinnell College Web Governance Committee	Fall 2014 to Spring 2015
MEMBER, Grinnell College Personnel Appeals Board	Fall 2013 to Spring 2015
MEMBER, Grinnell College Instructional Support Committee	Fall 2013 to Spring 2015
MEMBER, Grinnell College Ad Hoc Committee on Technology-Rich Teaching and Learning	Fall 2013 to Spring 2014
MEMBER, Grinnell College Student Health and Counseling Services Review Team	Fall 2013
MEMBER, Grinnell College Information Technology Assessment Project Committee (ITAP)	Fall 2012 to Summer 2013
	Spring 2014
ADVISOR, ACM Student Chapter	Spring 2014 to Spring 2015
	Fall 2011 to Spring 2012
	September 1999 to Spring 2001
MEMBER, Grinnell College Space Committee	Fall 2011 to Summer 2013
MEMBER, Faculty Organization Committee	Fall 2013 to Spring 2015
	Fall 2004 to Summer 2006
	Fall 2011 to Spring 2012
REVIEWER, Grinnell College Young Innovator for Social Justice Prize	Spring 2011 to Spring 2015
MEMBER AND SECRETARY, Grinnell College Assessment Task Force	Fall 2010 to Spring 2012
MEMBER, Office of Interdisciplinary Studies Advisory Board	Fall 2007 to Summer 2008
CHAIR, Ad Hoc Task Force on Voting	Fall 2006 to Spring 2007
MEMBER, Executive Council	Fall 2006 to Summer 2008
CHAIR, Science Division	Fall 2006 to Summer 2008
MEMBER, Copyright Task Force	Summer 2006 to Spring 2008
COORDINATOR, Computer Science Reading Group (CS Table)	Fall 2011 to Spring 2015
	Spring 2006 to Spring 2010
MEMBER, Office of Interdisciplinary Studies Interim Advisory Board	Fall 2005 to Summer 2006
MEMBER, Grinnell HHMI Committee	Fall 2004 to Spring 2010
DEPARTMENT REPRESENTATIVE, Liberal Arts Computer Science Consortium Meeting	Summer 2004
MEMBER, Grinnell Strategic Planning Liberal Arts Subcommittee	Spring 2004
MEMBER, Committee for the Support of Faculty Scholarship	Fall 2009-Spring 2012
	Fall 2003 to Summer 2006
MEMBER, Grinnell Online Community Advisory Committee	Fall 2003
INSTITUTIONAL REPRESENTATIVE, Midstates Science and Mathematics Consortium	June 2003 to June 2008
MEMBER, Tutorial Committee	Fall 2005 to Fall 2006
	Fall 2002 to Fall 2003
CHAIR, Noyce/Intel Grant Committee	Fall 2001 to Spring 2008
MEMBER, Grinnell College Draft Mission Statement Committee	Spring 2001
EDITOR AND AUTHOR, Grinnell Alumni and Wannabes in Computer Science (GAWCS) Newsletter	January 2001 to Spring 2003
COMPUTER SCIENCE REPRESENTATIVE, Science Building Phase II Planning Committee	July 2000 to Spring 2008
CO-COORDINATOR, Science Teaching and Learning Discussion Group	Fall 1999 to Spring 2004
Member of group since September 1997	
COORDINATOR, Tutorial Teaching and Learning Group	Fall 1999
MEMBER, Institutional Review Board	Fall 1998 to Summer 2000
Interim chair, July 2000	

SECRETARY, Science Division	<i>Fall 1998 to June 2001</i>
COORDINATOR AND DISCUSSION LEADER, Faculty Weekend Seminar	<i>Fall 1998 to Spring 1999</i>
CHAIR, Technology Studies Concentration	<i>January 2014 to June 2014</i>
	<i>June 2009 to June 2010</i>
	<i>June 2001 to June 2008</i>
MEMBER, Summer Science Research Committee	<i>Spring 1998</i>
MEMBER, Excellence Groups on Interdisciplinary Studies, Support for Faculty Research, Technology, and Teaching	<i>Spring 1998</i>
MEMBER, Sherman Fairchild Proposal Committee	<i>March 1998 to July 1998</i>
MEMBER, AIRE Proposal Committee	<i>January 1998 to June 1998</i>
PARTICIPANT, Faculty Retreat	<i>January 1998</i>
COORDINATOR, Young Science Faculty Reading Group	<i>Fall 1998 to Spring 1999</i>
PARTICIPANT, Design of new Computer Science Curriculum With Henry Walker, John Stone, Gene Herman, and other members of the Department of Mathematics and Computer Science)	<i>Fall 1997</i>

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*The design of this CV is based on Claud D. Park's Awesome-CV, downloaded from <https://github.com/posquit0/Awesome-CV>.  
The source for this CV can be found online at <https://github.com/rebelsky/rebelsky-cv/>.*